MEDISOL

Submitted

for

MCA-PROJECT

in

COMPUTER SCIENCE AND ENGINEERING

by

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ACKNOWLEDGMENT

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I thank my friends, fellow researchers and family members who have encouraged me in my research efforts and shouldered me in needy times.

CANDIDATE'S DECLARATION

I hereby certify that the work which is being presented in the MCA Dissertation Phase-1, entitled **MEDISOL** in Computer Science & Engineering and submitted in the School of Computing Science Engineering of the Galgotias University, Greater Noida is an authentic record of my own work carried out during a period from JAN 2020 to MAY **2020** under the supervision of **Nitin mishra professor** School of Computing Science & Engineering, Galgotias University, Greater Noida.

The Content presented in the dissertation has not been submitted by me for the award of any other degree of this or any other Institute.

CERTIFICATE

This is to certify that the above statement made by the candidate is correct to the best of my knowledge

SUPERVISOR NAME & SIGNATURE

Date: Place:

ACKNOWLEDGEMENT

I feel grateful to Web University who provided us the platform to develop our technical skills so that we could accomplish and learn while developing an industrial standard project.

We express our heartfelt gratitude to Web Univ (Technical Associate) who provided us with complete details of the project and also fulfilled all the hardware and software requirements that we needed. He was instrumental in making us understand the exact requirements of our clients and also provided continuous supervision of the project.

I wish to express my sincere and heartiest gratitude to Web Univ, for his active guidance and encouragement in the completion of this project.

I am greatly indebted all Information Technology faculties and staff members for the tireless hours they have spend in guiding me and providing me the resource.

And last but least, I would sincerely thank my brother, my friends and all family members who have tire Lesley supported all my endeavors. I would like to say that my achievements are truly their achievements.

CERTIFICATE

This is to certify that the project entitled "**MEDI-SOL**" is the bonafide work carried out by ----------student of MCA, Galgotia university during the year 2020, in partial fulfillment of the requirements for the award of the Degree of Master of Computer Application and that the project has not formed the basis for the award previously of any degree, diploma, associate ship, fellowship or any other similar title.

Signature of the Guide

DECLARATION

I hereby declare that the project entitled **"Medi-SOL"** submitted for the MCA Degree is my original work and the project has not formed the basis for the award of any degree, associate ship, fellowship or any other similar titles.

Signature of the Guide

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1. Medical Profile

RS Medical Agencies is a General Medical Store, which buys and sells the medicines as per the requirement of the customer. It has so many dealer ships from which the medicines are purchased and also some of the medicines it gets directly from the company and some of them from the wholesale retail shops. For the past few months they are facing difficulties in the current system for tracking down the details of the available and that of the sold due to the increased consumption of the medicines. So they had approached you to study the situation and resolve their difficulties in maintaining the records of the sold ones and that of the available and also to track down the details of the Payments done to the distributors, received from the customers, etc… and also to track down the information of the quantity of the stock available and that of the purchasable.

Existing Scenario

RS Medical Agencies is purchasing the drugs directly from the distributors of the company and as well with the dealers or from the wholesale retail shops who are the clients from whom the drugs are purchased. They did not have proper management in maintaining the records of the drugs like how much stock is available and how much is to be purchased, as well there is a lot of discrepancy in payments, discounts depending on the ratings and purchasal done. Some slipups in delivering stocks as per the requirement of the customers with in time due to the slipups in the records

Proposed Solution

Want to develop an automated system application that holds the complete information about the drugs, dealers, and wholesale retailers in a modular form so as to make a convenient approach to track all the records and to avoid the slipups during the dispatch of the stocks to the shops or customer and Maintain the list of the order requests so as to deliver in time to the corresponding customer.

2. Project Overview

2.1 About the Project

Medical Store is a swing base program. We can see any Medicine .We can manage any information about Medical Store. The person can maintain and update the data in real time application.

After login the system and authenticated we get list.

- ✓ **Customer Information**
- ✓ **Vendor Information**
- ✓ **Stock Information**
- ✓ **Purchase Information**
- ✓ **Sale Information**

The Customer Information can only enter the details of Customers.
The menu of the application should have the following:

- ♦ Customer Name
- ♦ Customer Address
- ♦ Contact Number
- ♦ Customer ID

The Vendor Information can only enter the details of Vendors.
The menu of the application should have the following:

- ♦ Vendor Name
- ♦ Vendor Address
- ♦ Contact Number
- ♦ Vendor Category
- ♦ Vendor ID

The Stock Information can only enter the details of Stock.
The menu of the application should have the following:

- ♦ Product Name
- ♦ Product ID
- ♦ Vendor Id
- ♦ Manufactured Date
- ♦ Expiry Date
- ♦ Available Quantity
- ♦ Price of a Product

The Purchase Information can only enter the details of Purchases.
The menu of the application should have the following:

- Product Name
- Product ID
- Vendor Id
- Quantity
- Price
- Paid Payment
- Due Payment

The Sale Information can only enter the details of Sales.
The menu of the application should have the following:

- Product Name
- Product ID
- Customer Id
- Quantity
- Price
- Received Payment
- Due Payment

2.2 Objectives of the Project

The main objectives of developing the Medical Agencies are as given below:
The Objective of this program is to give a sample project to work on real life projects. These applications help you build a larger more robust application.
The objective is to provide a real life scenario and help to create basic applications using the Medicine.

This project is meant for Medical Store

- To maintain the database using the system.
- To maintain the details of Drugs
- To maintain the report of customer query at a particular date.
- To maintain the Distributor information for all type of Medicine.
- To maintain Updating of Drugs and Firm name.
- To maintain and update BILLS.
- To maintain the Medical Report.
- To check order details by date.(ordered/cancelled)
- To maintain status of orders as well as Drugs.

3. Analysis

3.1 Identification of Need

- Non-Existence of a manager who have authorities to delete and update the records.
- Lack of access to instant information.
- Non-availability of Dynamic Reports at different levels.
- We can manage all details of Drugs
- Lack of consistency between the various data records.

3.2 Preliminary investigation

1. Automated the setup of customers
    - Add new customer
    - Updating the records of the already existing site.
    - List the available customers.
    - Delete the customer records.
2. Automated the setup of reports.
    - Add new customer record
    - Addition of a New or the updating the records of the already existing customer.
    - List the available Drugs name.
3. Automated the setup connections of Drugs.
4. Automated the setup of billing.
    - Generate the bills for each customer for their monthly payment.
    - Update bills after receiving of each installments or full bill payment.
5. Report Generation.
    - Generate Daily Medicine Report.
    - Generate balance left report for each customer.

3.3. Processing Environment: Software & Hardware

Following are the minimum specifications for the machine on which this package executes properly.

Hardware Requirements:

Pentium IV 2.8 GHz and Above
512 MB DDRAM or More
80 GB HDD
Printer
Power Backup
Telephone and Internet Connection

Software Requirements:

Net Beans IDE 6.0
Microsoft Office 2007

4. Feasibility Analysis

Feasibility study is the process of determination of whether or not a project is worth doing. Feasibility studies are undertaken within tight time constraints and normally culminate in a written and oral feasibility report. I have taken two weeks in feasibility study with my co-developer. This is a swing base program. Which is use of manage Drugs, firm name. In this program we can add, delete, update and search also.

The following is the process diagram for feasibility analysis. In the diagram, the feasibility analysis starts with the user set of requirements. With this, the existing system is also observed. The next step is to check for the deficiencies in the existing system. By evaluating the above points a fresh idea is conceived to define and quantify the required goals. The user consent is very important for the new plan.

In the M I LC (Medical Information Life Cycle) of our project we maintained a number of feasibility checkpoints between the two phases of the M I LC These checkpoints indicate that the management decision to be made after a phase is complete. The feasibility checkpoints in our project were as follows:

- Maintaining
- Study phase checkpoint
- Selection phase checkpoint
- Design phase checkpoint

We together started measuring project feasibility, which lasted two week. During this period we have had consultation with our guide Mr. Vivek Dixit (IT Head of KTS) and the management of the Bakers Town. In this course we conducted three tests for Project feasibility maintaining, namely, Technical, Economical, and Operational feasibilities.

4.1 Technical Feasibility

Technical feasibility determines whether the work for the project can be done with the existing equipment, software technology and available personnel. Technical feasibility is concerned with specifying equipment and software that will satisfy the user requirement.
The proposed system can run on any machines supporting Windows and Internet services and works on the best software and hardware that had been used while designing the system so it would be feasible in all technical terms of feasibility.

4.2 Economic Feasibility

Economical feasibility determines whether there are sufficient benefits in creating to make the cost acceptable, or is the cost of the system too high. As this signifies cost-benefit analysis and savings. On the behalf of the cost-benefit analysis, the proposed system is feasible and is economical regarding its pre-assumed cost for making a system.

5. Software Engineering

5.1 Structure

- Maintaining
- Drugs Details
- Firm name

5.2 Development Schedule

The following steps were followed in developing the application:

1. Maintaining: We can maintain the medical store Information. Drugs name' Firm name, Database. We can search customer details, dealer details, stock details, wholesaler etc.

2. Design of the proposed system: The next step was to design the screen, windows and reports for the inputs and outputs. The concerned authorities consulted during the design phase to ensure user acceptances and not to miss out on any vital information. In the same phase, the project was broken down into various modules.

3. Coding of the design system: A modular approach was followed, where, in each module, a well-defined procedure was developed independently. These modules were developed to use the same database file structure to ensure integrity.

4. System documentations: This stage consists of documenting the layout of entire system. It indicated the purpose of interlinking of different modules along with the integration of the entire system.

5. Testing and Debugging: Preliminary test were done with the self-generating dummy data. After identifying and removing errors, it was tested for all activities together.

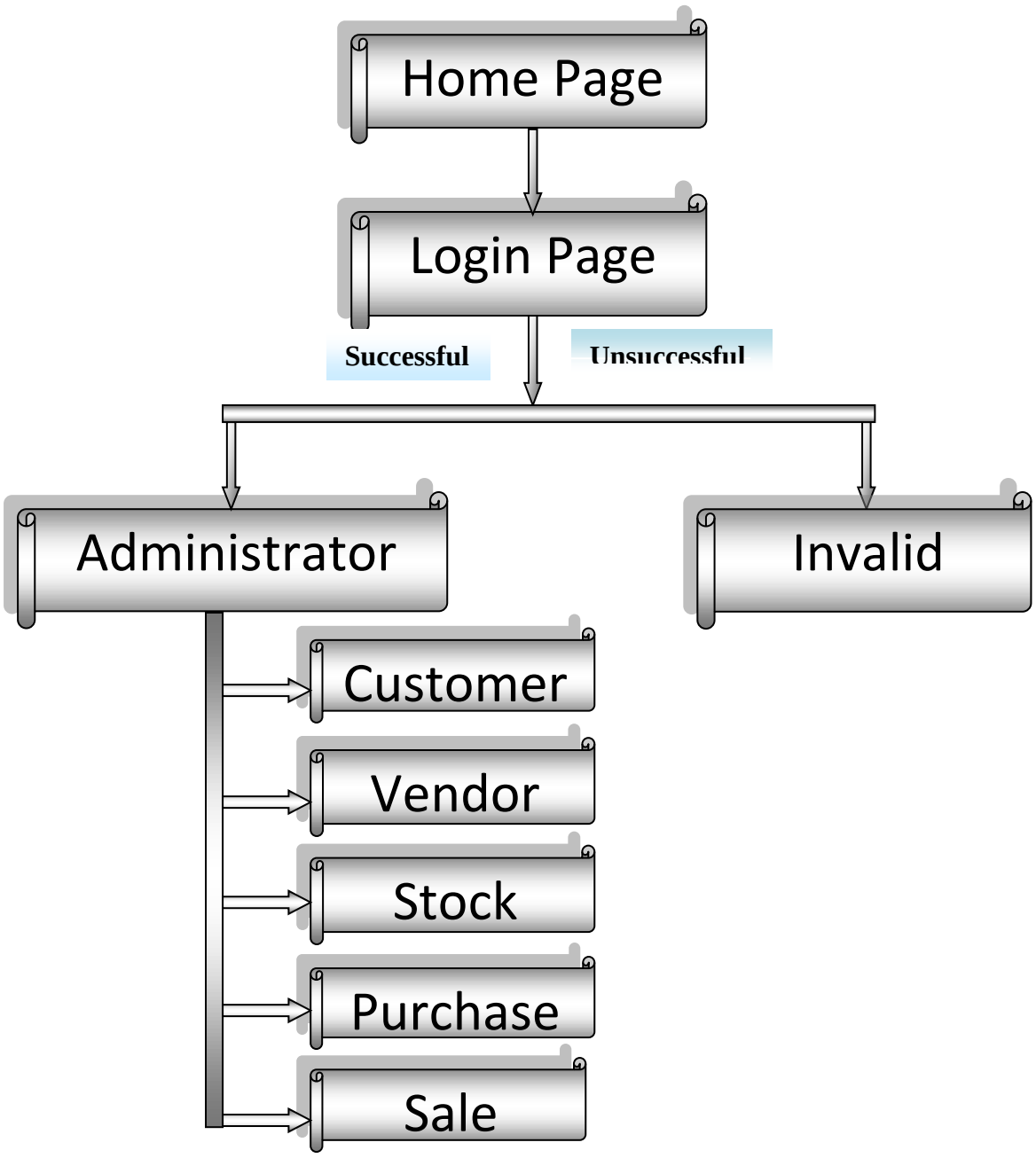
5.3 Software Design

Software design sits at the technical kernel of software engineering and is applied regardless of the software process model that is used. Design is a meaningful engineering representation of something that is to be built. It can be traced to a customer's requirements and at the same time assessed for quality against a set of predefined criteria for 'good' design. In the software engineering context, design focuses on four major area of concern: data, architecture, interfaces, and components.

Each of the elements of the analysis model provides information that is necessary to create the four design models required for a complete specification of design.

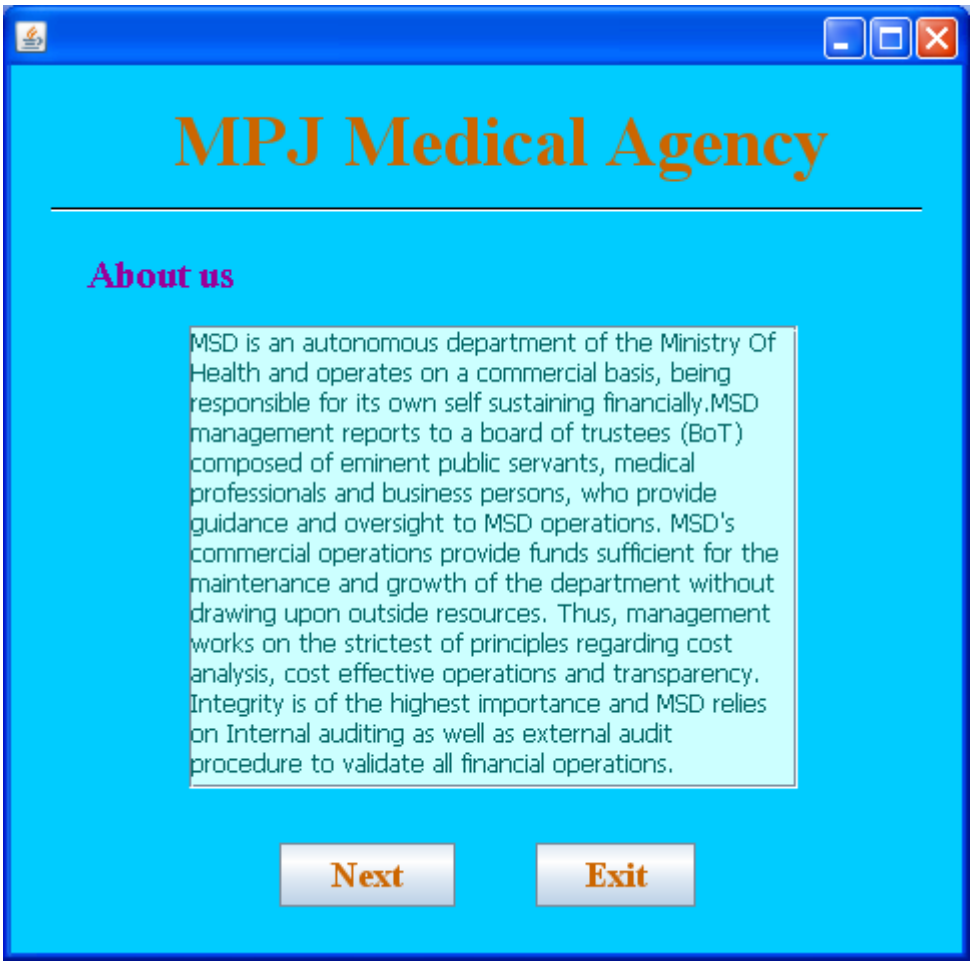
Flow Chart:

It is the diagrammatic representation of the data which help in understanding the data more easily and quickly.



FORM DESIGNS:-

Home Page



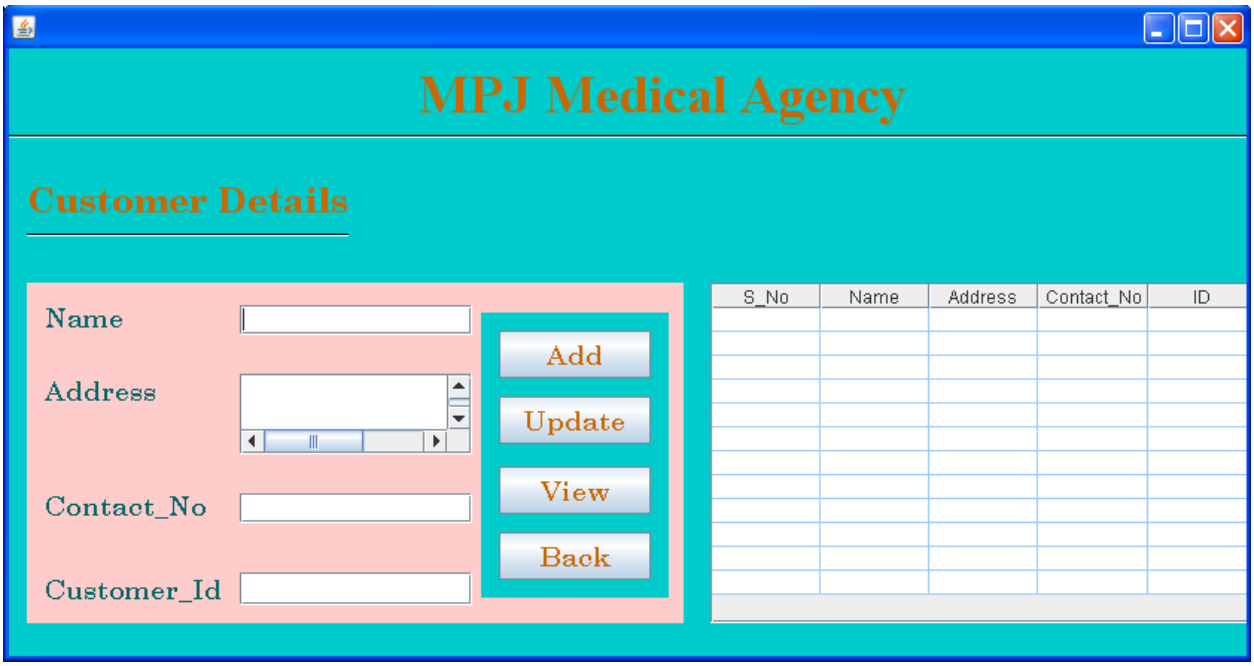
LOGIN FORM

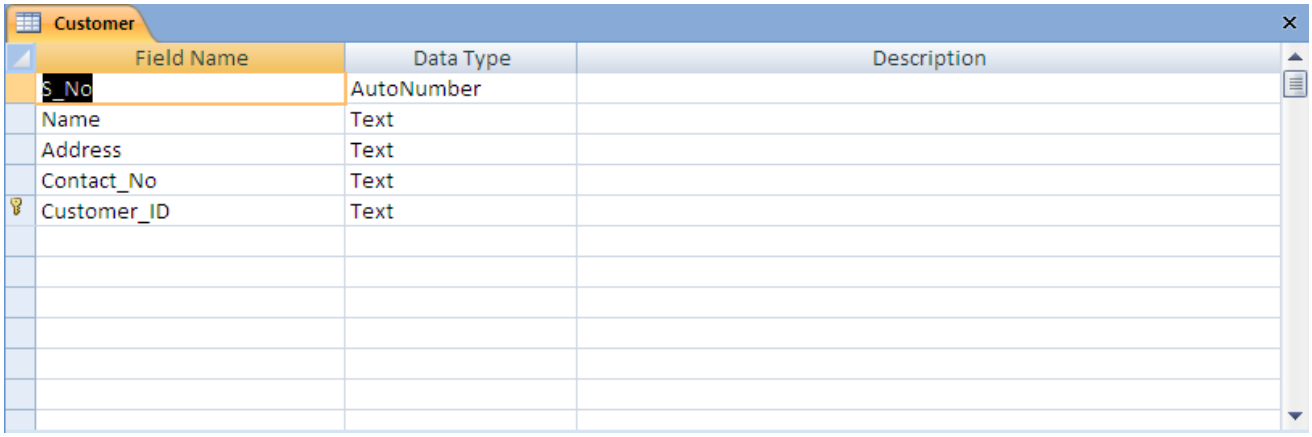
MPJ Medical Agency
MPJ
MEDICAL STORE
UserName
Password
Submit

Invalid Form

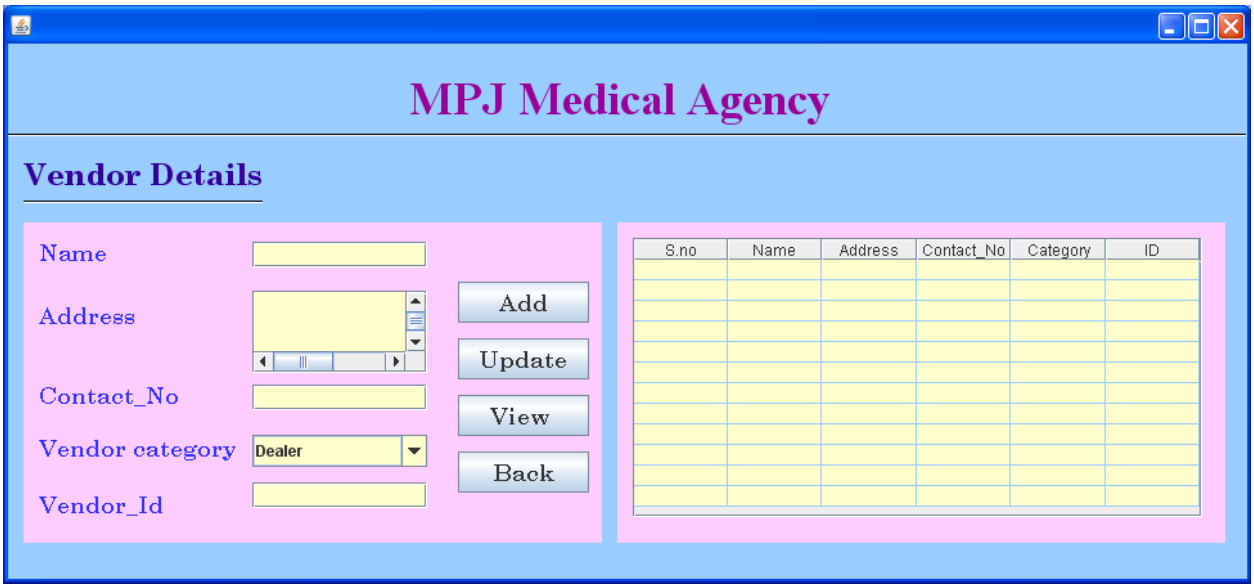
Administrator Form

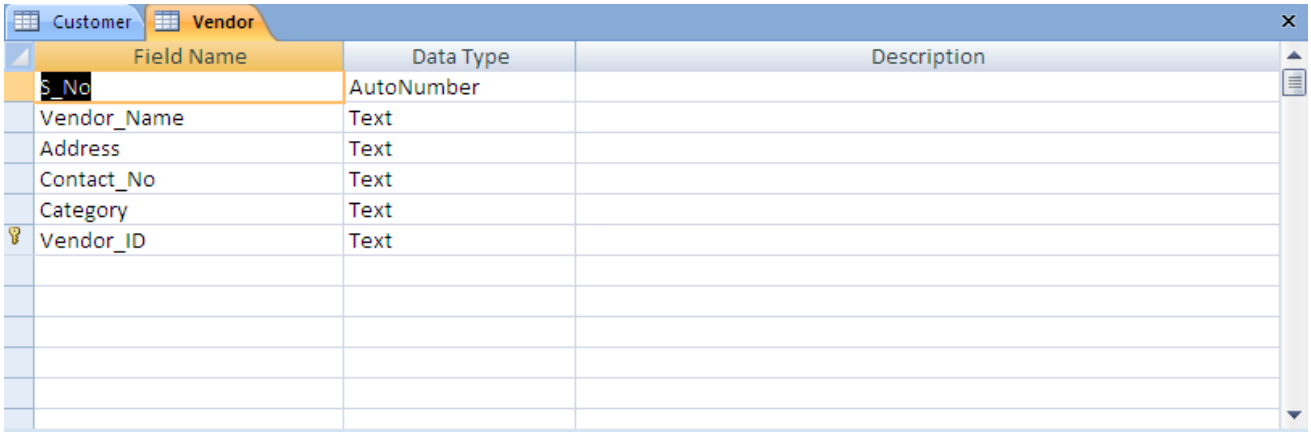
Customer Form



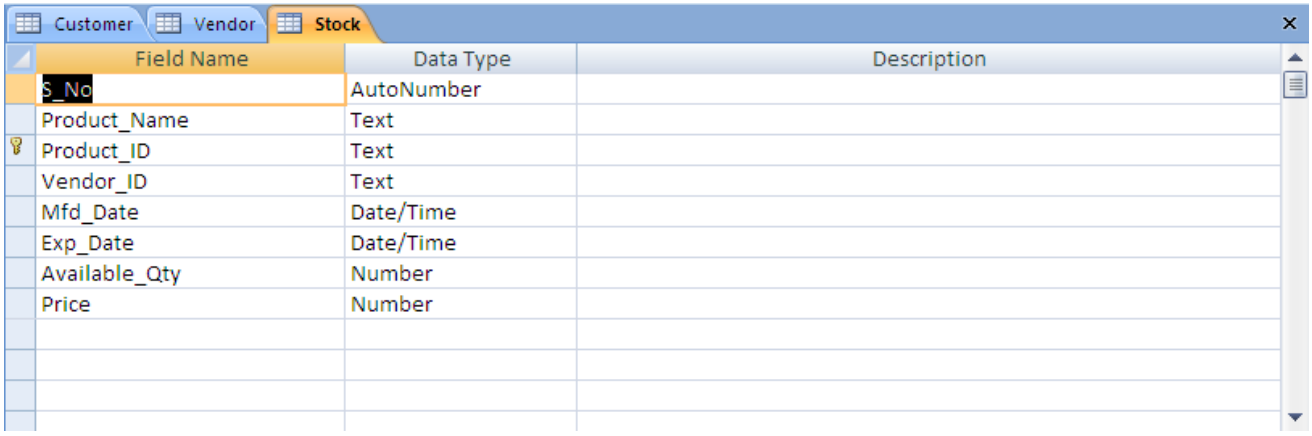


Vendor's Details

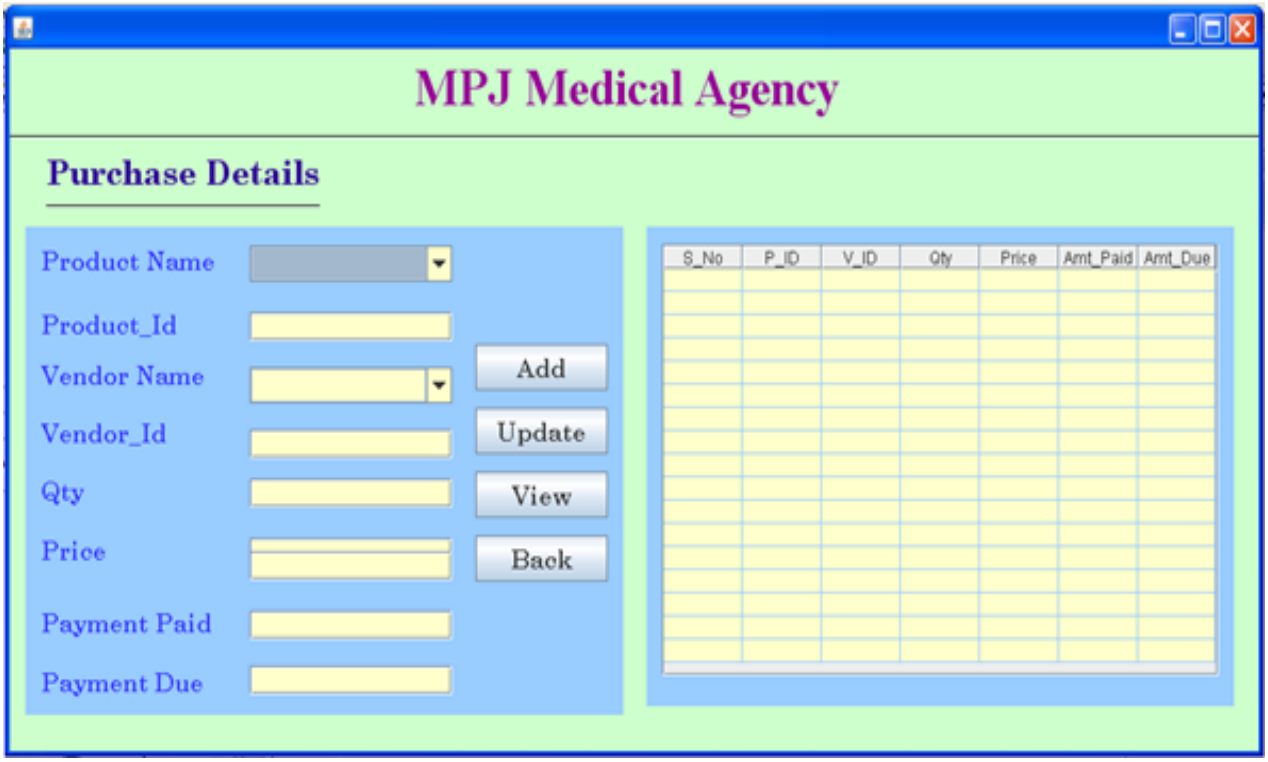


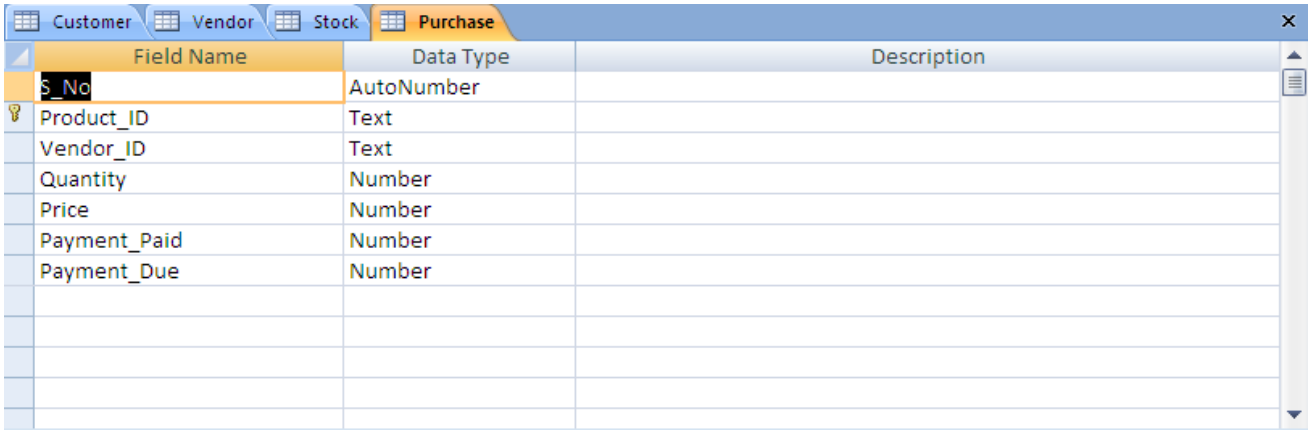


Stock Details

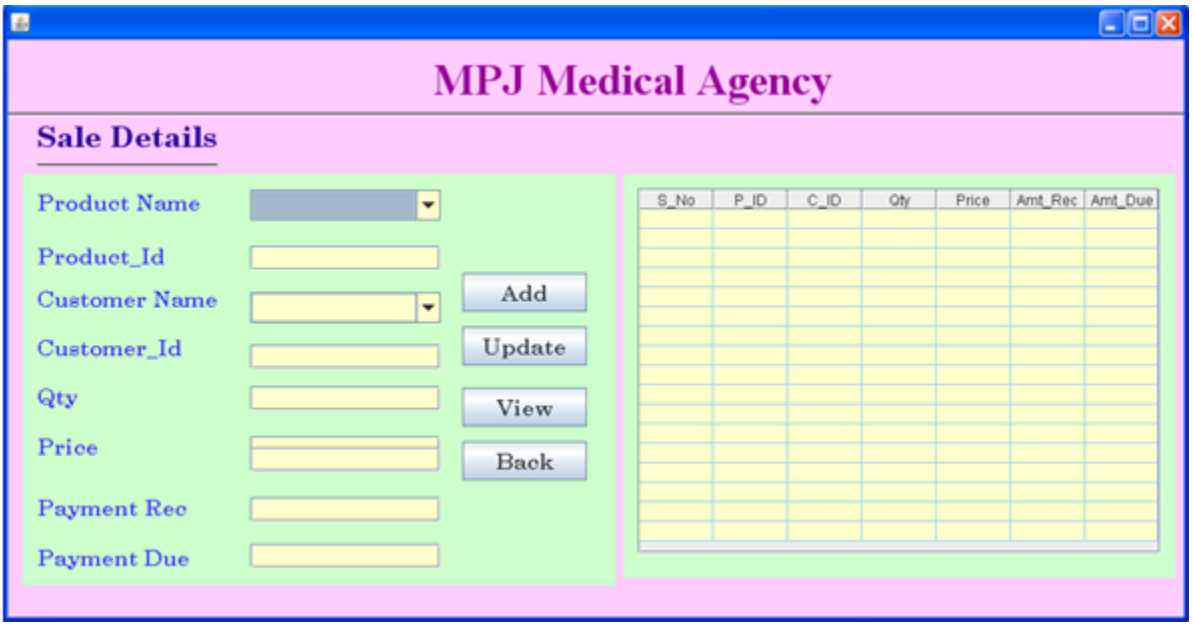


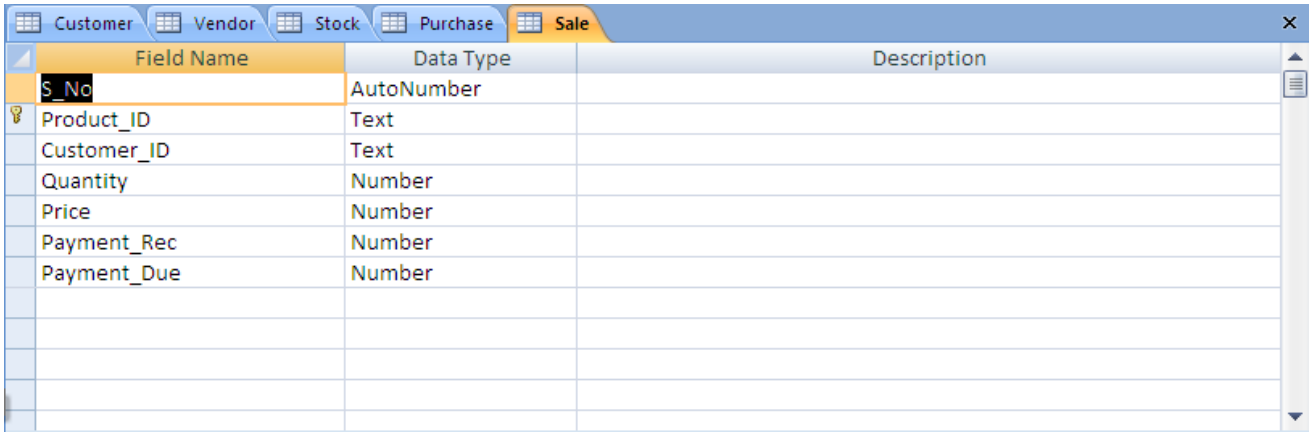
Purchase Details





Sale Details





8. Desktop Testing

Desktop testing is done to test the design theoretically. Following steps are taken to test the design of

Maintenance:-

E-R diagram is checked for the normalization of tables and various constraints. All the DFD's are verified on the basis of functionality of various operations.

The logic designed for various operations is thoroughly checked and verified by all the team members.

- Desktop testing is done after design phase. The problems faced during the design phase
- Of the project are tried to be solved during desktop testing. The variable type mismatch
- And any logical errors are removed during this phase. Some runtime errors are also sorted
- Out during this phase.
- This project has been tested on different versions of computer ranging from Celeron, P-4
- And Core Duo processors in different operating systems. So, we have tested our project
- On such different platforms successfully. We also consider & try to improve suggestions
- And deficiency suggested by related teachers & project viewers including students & others
- To make our project more user friendly.

9. Introduction to coding:

This means program construction with procedural specifications has finished and the coding for the program begins:

- Once the design phase was over,coding commenced
- Coding is natural consequence of design.
- Coding step translate a detailed design representation of software into a programming languae realization.
- Main emphasis while coding was on style so that the end result was an optimized code.

The following points were kept into cosideration while coding:

9.1 Coding Style

- ✓ The structured programming method was used in all the modules the project.It incorporated the following features
- ✓ The code has been written so that the definition and implementation of each function is contained in one file.
- ✓ A group of related function was clubbed together in one file to include it when needed and save us from the labour of writing it again and again.

9.2 Naming Convention:-

As the project size grows, so does the complexity of recognizing the purpose of the variables.Thus the variables were given meaningful names,whihch would hellp in understanding the context and the purpose of the variable.

The function names are also given meaningful names that can be easily understood by the user.

9.3 Indentation

Judicious use of indentation can make the task of reading and understanding a program much simpler.Indentation is an essential part of a goog program.If code id intended without thought itv will seriously affect the readability of the program.

The higher-level statements like he definition of the variables, constants and the function are intended, with each nested block intended, stating their purpose in the code.

Blank line is also left between each function definition to make the code look neat. Indentation for each source file stating his purpose of the file is also done.

Home

```
public class HOME extends javax.swing.JFrame {
       public HOME() {
       initComponents();
   }
   private void initComponents() {
       jPanel1 = new javax.swing.JPanel();
       jSeparator1 = new javax.swing.JSeparator();
       jButton1 = new javax.swing.JButton();
       jButton2 = new javax.swing.JButton();
       jSeparator2 = new javax.swing.JSeparator();
       jScrollPane1 = new javax.swing.JScrollPane();
       jTextArea1 = new javax.swing.JTextArea();
       jLabel2 = new javax.swing.JLabel();
       jLabel3 = new javax.swing.JLabel();
       jLabel1 = new javax.swing.JLabel();
       setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);
       jPanel1.setBackground(new java.awt.Color(0, 204, 255));
       jSeparator1.setBackground(new java.awt.Color(0, 0, 102));
       jButton1.setFont(new java.awt.Font("Times New Roman", 1, 18));
       jButton1.setForeground(new java.awt.Color(204, 102, 0));
       jButton1.setText("Next");
       jButton1.addActionListener(new java.awt.event.ActionListener() {
           public void actionPerformed(java.awt.event.ActionEvent evt) {
               jButton1ActionPerformed(evt);
           }
       });
       jButton2.setFont(new java.awt.Font("Times New Roman", 1, 18));
       jButton2.setForeground(new java.awt.Color(204, 102, 0));
       jButton2.setText("Exit");
       jButton2.addActionListener(new java.awt.event.ActionListener() {
           public void actionPerformed(java.awt.event.ActionEvent evt) {
               jButton2ActionPerformed(evt);
           }
       });
       jSeparator2.setForeground(new java.awt.Color(0, 0, 0));
       jTextArea1.setBackground(new java.awt.Color(204, 255, 255));
       jTextArea1.setColumns(20);
       jTextArea1.setEditable(false);
       jTextArea1.setFont(new java.awt.Font("Tahoma", 0, 12));
       jTextArea1.setForeground(new java.awt.Color(0, 102, 102));
       jTextArea1.setRows(5);
       jTextArea1.setText("MSD is an autonomous department of the Ministry Of \nHealth and operates on a
commercial basis, being \nresponsible for its own self sustaining financially.MSD \nmanagement reports to a
board of trustees (BoT) \ncomposed of eminent public servants, medical \nprofessionals and business persons,
who provide \nguidance and oversight to MSD operations. MSD's \ncommercial operations provide funds
sufficient for the \nmaintenance and growth of the department without \ndrawing upon outside resources.
Thus, management \nworks on the strictest of principles regarding cost \nanalysis, cost effective operations
and transparency. \nIntegrity is of the highest importance and MSD relies \non Internal auditing as well as
external audit \nprocedure to validate all financial operations.");
       jScrollPane1.setViewportView(jTextArea1);
       jLabel2.setFont(new java.awt.Font("Calisto MT", 1, 18));
       jLabel2.setForeground(new java.awt.Color(153, 0, 153));
       jLabel2.setText("About us");
```

```
        jLabel1.setBackground(new java.awt.Color(204, 204, 255));
        jLabel1.setFont(new java.awt.Font("Times New Roman", 1, 36));
        jLabel1.setForeground(new java.awt.Color(204, 102, 0));
        jLabel1.setText("MPJ Medical Agency");
        javax.swing.GroupLayout jPanel1Layout = new javax.swing.GroupLayout(jPanel1);
        jPanel1.setLayout(jPanel1Layout);
        jPanel1Layout.setHorizontalGroup(
            jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(jPanel1Layout.createSequentialGroup()
                .addContainerGap()
                .addComponent(jLabel3)
                .addGap(26, 26, 26)
.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                    .addGroup(jPanel1Layout.createSequentialGroup()
                        .addGap(51, 51, 51)
                        .addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED_SIZE, 304,
javax.swing.GroupLayout.PREFERRED_SIZE)
                        .addGap(328, 328, 328)
                        .addComponent(jSeparator1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
                    .addComponent(jLabel2)))
            .addGroup(jPanel1Layout.createSequentialGroup()
                .addGap(134, 134, 134)
                .addComponent(jButton1, javax.swing.GroupLayout.PREFERRED_SIZE, 88,
javax.swing.GroupLayout.PREFERRED_SIZE)
                .addGap(40, 40, 40)
                .addComponent(jButton2, javax.swing.GroupLayout.PREFERRED_SIZE, 80,
javax.swing.GroupLayout.PREFERRED_SIZE))
            .addGroup(jPanel1Layout.createSequentialGroup()
                .addGap(20, 20, 20)
                .addComponent(jSeparator2, javax.swing.GroupLayout.PREFERRED_SIZE, 435,
javax.swing.GroupLayout.PREFERRED_SIZE))
            .addGroup(jPanel1Layout.createSequentialGroup()
                .addGap(80, 80, 80)
                .addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED_SIZE, 336,
javax.swing.GroupLayout.PREFERRED_SIZE))
        );
        jPanel1Layout.setVerticalGroup(
            jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(jPanel1Layout.createSequentialGroup()
                .addGap(17, 17, 17)
                .addComponent(jLabel1)
                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
                .addComponent(jSeparator2, javax.swing.GroupLayout.PREFERRED_SIZE, 10,
javax.swing.GroupLayout.PREFERRED_SIZE)
                .addGap(15, 15, 15)
                .addComponent(jLabel2)
                .addGap(12, 12, 12)
.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                    .addComponent(jLabel3)
                    .addGroup(jPanel1Layout.createSequentialGroup()
                        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                        .addComponent(jSeparator1, javax.swing.GroupLayout.PREFERRED_SIZE, 10,
javax.swing.GroupLayout.PREFERRED_SIZE))
                    .addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED_SIZE, 231,
javax.swing.GroupLayout.PREFERRED_SIZE))
```

```
            .addGap(27, 27, 27)
.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                .addComponent(jButton1)
                .addComponent(jButton2))
            .addContainerGap(23, Short.MAX_VALUE))
        );
        javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());
        getContentPane().setLayout(layout);
        layout.setHorizontalGroup(
            layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addComponent(jPanel1, javax.swing.GroupLayout.PREFERRED_SIZE, 475,
javax.swing.GroupLayout.PREFERRED_SIZE)
        );
        layout.setVerticalGroup(
            layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addComponent(jPanel1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
        );
        pack();
    }// </editor-fold>
    private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {
      LoginPage ob=new LoginPage();
      ob.setVisible(true);
      this.hide();
       // TODO add your handling code here:
    }
    private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {
       System.exit(0);
       // TODO add your handling code here:
    }
    public static void main(String args[]) {
       java.awt.EventQueue.invokeLater(new Runnable() {
           public void run() {
              new HOME().setVisible(true);
           }
       });
    }
    private javax.swing.JButton jButton1;
    private javax.swing.JButton jButton2;
    private javax.swing.JLabel jLabel1;
    private javax.swing.JLabel jLabel2;
    private javax.swing.JLabel jLabel3;
    private javax.swing.JPanel jPanel1;
    private javax.swing.JScrollPane jScrollPane1;
    private javax.swing.JSeparator jSeparator1;
    private javax.swing.JSeparator jSeparator2;
    private javax.swing.JTextArea jTextArea1;
    // End of variables declaration

}
```

Login

```
public class LoginPage extends javax.swing.JFrame {
    public LoginPage() {
        initComponents();
    }
    private void initComponents() {
        jPanel1 = new javax.swing.JPanel();
        jLabel1 = new javax.swing.JLabel();
        jSeparator2 = new javax.swing.JSeparator();
        jLabel2 = new javax.swing.JLabel();
        jSeparator1 = new javax.swing.JSeparator();
        jPanel2 = new javax.swing.JPanel();
        jLabel3 = new javax.swing.JLabel();
        jTextField1 = new javax.swing.JTextField();
        jLabel4 = new javax.swing.JLabel();
        jPasswordField1 = new javax.swing.JPasswordField();
        jButton1 = new javax.swing.JButton();
        setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);
        jPanel1.setBackground(new java.awt.Color(0, 255, 204));
        jLabel1.setBackground(new java.awt.Color(204, 204, 255));
        jLabel1.setFont(new java.awt.Font("Times New Roman", 1, 36));
        jLabel1.setForeground(new java.awt.Color(153, 0, 153));
        jLabel1.setText("MPJ Medical Agency");
        jSeparator2.setForeground(new java.awt.Color(0, 0, 0));
        jLabel2.setIcon(new javax.swing.ImageIcon("C:\\Medical Agency\\Pictures\\2.JPG"));
jSeparator1.setForeground(new java.awt.Color(0, 0, 0));
        jSeparator1.setOrientation(javax.swing.SwingConstants.VERTICAL);
        jPanel2.setBackground(new java.awt.Color(0, 255, 204));
        jLabel3.setFont(new java.awt.Font("Century Schoolbook", 1, 18));
        jLabel3.setForeground(new java.awt.Color(51, 51, 255));
        jLabel3.setText("UserName");
        jLabel4.setFont(new java.awt.Font("Century Schoolbook", 1, 18));
        jLabel4.setForeground(new java.awt.Color(51, 0, 255));
        jLabel4.setText("Password");
        jButton1.setFont(new java.awt.Font("Century Schoolbook", 0, 18));
        jButton1.setText("Submit");
        jButton1.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                jButton1ActionPerformed(evt);
            }
        });
        javax.swing.GroupLayout jPanel2Layout = new javax.swing.GroupLayout(jPanel2);
        jPanel2.setLayout(jPanel2Layout);
        jPanel2Layout.setHorizontalGroup(
            jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(jPanel2Layout.createSequentialGroup()
.addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                .addGroup(jPanel2Layout.createSequentialGroup()
                    .addGap(19, 19, 19)
.addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                        .addComponent(jLabel3)
                        .addComponent(jLabel4))
                    .addGap(35, 35, 35)
  .addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)
```

```
                    .addComponent(jPasswordField1)
                    .addComponent(jTextField1, javax.swing.GroupLayout.DEFAULT_SIZE, 153,
Short.MAX_VALUE)))
                .addGroup(jPanel2Layout.createSequentialGroup()
                    .addGap(96, 96, 96)
                    .addComponent(jButton1)))
            .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
        );
        jPanel2Layout.setVerticalGroup(
            jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(jPanel2Layout.createSequentialGroup()
                .addGap(19, 19, 19)
.addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                    .addComponent(jLabel3)
                    .addComponent(jTextField1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
                .addGap(36, 36, 36)
.addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                    .addComponent(jLabel4)
                    .addComponent(jPasswordField1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
                .addGap(18, 18, 18)
                .addComponent(jButton1)
                .addContainerGap(19, Short.MAX_VALUE))
        );
        javax.swing.GroupLayout jPanel1Layout = new javax.swing.GroupLayout(jPanel1);
        jPanel1.setLayout(jPanel1Layout);
        jPanel1Layout.setHorizontalGroup(
            jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(jPanel1Layout.createSequentialGroup()
.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                    .addGroup(jPanel1Layout.createSequentialGroup()
                        .addGap(126, 126, 126)
.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                            .addComponent(jSeparator2, javax.swing.GroupLayout.PREFERRED_SIZE, 435,
javax.swing.GroupLayout.PREFERRED_SIZE)
                            .addGroup(jPanel1Layout.createSequentialGroup()
                                .addGap(60, 60, 60)
                                .addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED_SIZE, 336,
javax.swing.GroupLayout.PREFERRED_SIZE))))
                    .addGroup(jPanel1Layout.createSequentialGroup()
                        .addGap(19, 19, 19)
                        .addComponent(jLabel2)
                        .addGap(18, 18, 18)
                        .addComponent(jSeparator1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
                        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                        .addComponent(jPanel2, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)))
                .addContainerGap(27, Short.MAX_VALUE))
        );
        jPanel1Layout.setVerticalGroup(
            jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(jPanel1Layout.createSequentialGroup()
                .addContainerGap()
                .addComponent(jLabel1)
```

```
            .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
            .addComponent(jSeparator2, javax.swing.GroupLayout.PREFERRED_SIZE, 10,
javax.swing.GroupLayout.PREFERRED_SIZE)
.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                .addGroup(jPanel1Layout.createSequentialGroup()
                    .addGap(16, 16, 16)
                    .addComponent(jLabel2))
                .addGroup(jPanel1Layout.createSequentialGroup()
                    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                    .addComponent(jSeparator1, javax.swing.GroupLayout.PREFERRED_SIZE, 231,
javax.swing.GroupLayout.PREFERRED_SIZE))
                .addGroup(jPanel1Layout.createSequentialGroup()
                    .addGap(29, 29, 29)
                    .addComponent(jPanel2, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)))
            .addContainerGap(25, Short.MAX_VALUE))
        );
        javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());
        getContentPane().setLayout(layout);
        layout.setHorizontalGroup(
            layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addComponent(jPanel1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
        );
        layout.setVerticalGroup(
            layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addComponent(jPanel1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
        );
        pack();
    }// </editor-fold>
    private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {
String s1=jTextField1.getText();
String s2=jPasswordField1.getText();
if((s1.equals("Aptech"))&&(s2.equals("aptech@123")))
{
Administrator ob=new Administrator();
    ob.setVisible(true);
this.hide();
}
else
{
Invalid ob=new Invalid();
ob.setVisible(true);
this.hide();
}
    }
    public static void main(String args[]) {
        java.awt.EventQueue.invokeLater(new Runnable() {
            public void run() {
                new LoginPage().setVisible(true);
            }
        });
    }
    private javax.swing.JButton jButton1;
    private javax.swing.JLabel jLabel1;
```

```
    private javax.swing.JLabel jLabel2;
    private javax.swing.JLabel jLabel3;
    private javax.swing.JLabel jLabel4;
    private javax.swing.JPanel jPanel1;
    private javax.swing.JPanel jPanel2;
    private javax.swing.JPasswordField jPasswordField1;
    private javax.swing.JSeparator jSeparator1;
    private javax.swing.JSeparator jSeparator2;
    private javax.swing.JTextField jTextField1;
    }
```

Invalid

```
public class Invalid extends javax.swing.JFrame {
  public Invalid() {
        initComponents();
    }
    private void initComponents() {
        jPanel1 = new javax.swing.JPanel();
        jSeparator1 = new javax.swing.JSeparator();
        jSeparator2 = new javax.swing.JSeparator();
        jButton1 = new javax.swing.JButton();
        jLabel2 = new javax.swing.JLabel();
        jLabel3 = new javax.swing.JLabel();
        jSeparator3 = new javax.swing.JSeparator();
        jLabel1 = new javax.swing.JLabel();
        setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);
        jPanel1.setBackground(new java.awt.Color(204, 204, 255));
        jSeparator1.setBackground(new java.awt.Color(0, 0, 102));
        jSeparator2.setForeground(new java.awt.Color(0, 0, 0));
        jButton1.setFont(new java.awt.Font("Century Schoolbook", 1, 18));
        jButton1.setForeground(new java.awt.Color(153, 0, 153));
        jButton1.setText("Login Again");
        jButton1.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                jButton1ActionPerformed(evt);
            }
        });
        jLabel2.setBackground(new java.awt.Color(153, 0, 204));
        jLabel2.setFont(new java.awt.Font("Arial", 0, 24));
        jLabel2.setForeground(new java.awt.Color(204, 51, 0));
        jLabel2.setText("The specifier user does not exists.");
        jLabel3.setFont(new java.awt.Font("Century Schoolbook", 1, 18));
        jLabel3.setForeground(new java.awt.Color(0, 153, 204));
        jLabel3.setText("Invalid User");
        jSeparator3.setForeground(new java.awt.Color(0, 0, 0));
        jLabel1.setBackground(new java.awt.Color(204, 204, 255));
        jLabel1.setFont(new java.awt.Font("Times New Roman", 1, 36));
        jLabel1.setForeground(new java.awt.Color(153, 0, 153));
        jLabel1.setText("MPJ Medical Agency");
        javax.swing.GroupLayout jPanel1Layout = new javax.swing.GroupLayout(jPanel1);
        jPanel1.setLayout(jPanel1Layout);
        jPanel1Layout.setHorizontalGroup(
            jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(jPanel1Layout.createSequentialGroup()
```

```
            .addGap(75, 75, 75)
            .addComponent(jLabel1, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
            .addGap(373, 373, 373))
         .addGroup(jPanel1Layout.createSequentialGroup()
.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
               .addGroup(jPanel1Layout.createSequentialGroup()
                  .addGap(170, 170, 170)
                  .addComponent(jLabel3))
               .addGroup(jPanel1Layout.createSequentialGroup()
                  .addGap(162, 162, 162)
                  .addComponent(jSeparator3, javax.swing.GroupLayout.PREFERRED_SIZE, 133,
javax.swing.GroupLayout.PREFERRED_SIZE)))
            .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 481,
Short.MAX_VALUE)
            .addComponent(jSeparator1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
         .addGroup(jPanel1Layout.createSequentialGroup()
            .addGap(31, 31, 31)
            .addComponent(jLabel2)
            .addContainerGap(380, Short.MAX_VALUE))
         .addGroup(jPanel1Layout.createSequentialGroup()
            .addGap(157, 157, 157)
            .addComponent(jButton1)
            .addContainerGap(472, Short.MAX_VALUE))
         .addGroup(jPanel1Layout.createSequentialGroup()
            .addComponent(jSeparator2, javax.swing.GroupLayout.PREFERRED_SIZE, 481,
javax.swing.GroupLayout.PREFERRED_SIZE)
            .addContainerGap(295, Short.MAX_VALUE))
      );
      jPanel1Layout.setVerticalGroup(
         jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
         .addGroup(jPanel1Layout.createSequentialGroup()
            .addContainerGap()
            .addComponent(jLabel1)
            .addGap(17, 17, 17)
            .addComponent(jSeparator2, javax.swing.GroupLayout.PREFERRED_SIZE, 10,
javax.swing.GroupLayout.PREFERRED_SIZE)
            .addGap(12, 12, 12)
            .addComponent(jLabel3)
            .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)
               .addComponent(jSeparator1, javax.swing.GroupLayout.PREFERRED_SIZE, 10,
javax.swing.GroupLayout.PREFERRED_SIZE)
               .addComponent(jSeparator3, javax.swing.GroupLayout.PREFERRED_SIZE, 10,
javax.swing.GroupLayout.PREFERRED_SIZE))
            .addGap(18, 18, 18)
            .addComponent(jLabel2)
            .addGap(36, 36, 36)
            .addComponent(jButton1)
            .addGap(80, 80, 80))
      );
      javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());
      getContentPane().setLayout(layout);
      layout.setHorizontalGroup(
         layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
```

```
            .addComponent(jPanel1, javax.swing.GroupLayout.PREFERRED_SIZE, 482,
javax.swing.GroupLayout.PREFERRED_SIZE)
        );
        layout.setVerticalGroup(
            layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addComponent(jPanel1, javax.swing.GroupLayout.PREFERRED_SIZE, 324,
javax.swing.GroupLayout.PREFERRED_SIZE)
        );
        pack();
    }// </editor-fold>
    private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {
LoginPage ob=new LoginPage();
ob.setVisible(true);
this.hide();
    }
    public static void main(String args[]) {
        java.awt.EventQueue.invokeLater(new Runnable() {
            public void run() {
                new Invalid().setVisible(true);
            }
        });
    }
    private javax.swing.JButton jButton1;
    private javax.swing.JLabel jLabel1;
    private javax.swing.JLabel jLabel2;
    private javax.swing.JLabel jLabel3;
    private javax.swing.JPanel jPanel1;
    private javax.swing.JSeparator jSeparator1;
    private javax.swing.JSeparator jSeparator2;
    private javax.swing.JSeparator jSeparator3;
}
```

Admin

```
public class Administrator extends javax.swing.JFrame {
    public Administrator() {
        initComponents();
    }
    private void initComponents() {
        jPanel1 = new javax.swing.JPanel();
        jSeparator1 = new javax.swing.JSeparator();
        jLabel2 = new javax.swing.JLabel();
        jPanel3 = new javax.swing.JPanel();
        jButton1 = new javax.swing.JButton();
        jButton2 = new javax.swing.JButton();
        jButton3 = new javax.swing.JButton();
        jButton4 = new javax.swing.JButton();
        jButton5 = new javax.swing.JButton();
        jButton6 = new javax.swing.JButton();
        jLabel1 = new javax.swing.JLabel();
        jLabel3 = new javax.swing.JLabel();
        jSeparator2 = new javax.swing.JSeparator();
        jSeparator3 = new javax.swing.JSeparator();
        jLabel4 = new javax.swing.JLabel();
        jLabel5 = new javax.swing.JLabel();
```

```
setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);
jPanel1.setBackground(new java.awt.Color(204, 153, 255));
jSeparator1.setBackground(new java.awt.Color(0, 0, 102));
jPanel3.setBackground(new java.awt.Color(204, 204, 204));
jButton1.setFont(new java.awt.Font("Bookman Old Style", 0, 18));
jButton1.setForeground(new java.awt.Color(204, 102, 0));
jButton1.setText("Customer");
jButton1.addActionListener(new java.awt.event.ActionListener() {
   public void actionPerformed(java.awt.event.ActionEvent evt) {
      jButton1ActionPerformed(evt);
   }
});
jButton2.setFont(new java.awt.Font("Bookman Old Style", 0, 18));
jButton2.setForeground(new java.awt.Color(204, 102, 0));
jButton2.setText("Vendor");
jButton2.addActionListener(new java.awt.event.ActionListener() {
   public void actionPerformed(java.awt.event.ActionEvent evt) {
      jButton2ActionPerformed(evt);
   }
});
jButton3.setFont(new java.awt.Font("Bookman Old Style", 0, 18));
jButton3.setForeground(new java.awt.Color(204, 102, 0));
jButton3.setText("Stock");
jButton3.addActionListener(new java.awt.event.ActionListener() {
   public void actionPerformed(java.awt.event.ActionEvent evt) {
      jButton3ActionPerformed(evt);
   }
});
jButton4.setFont(new java.awt.Font("Bookman Old Style", 0, 18));
jButton4.setForeground(new java.awt.Color(204, 102, 0));
jButton4.setText("Purchase");
jButton4.addActionListener(new java.awt.event.ActionListener() {
   public void actionPerformed(java.awt.event.ActionEvent evt) {
      jButton4ActionPerformed(evt);
   }
});
jButton5.setFont(new java.awt.Font("Bookman Old Style", 0, 18));
jButton5.setForeground(new java.awt.Color(204, 102, 0));
jButton5.setText("Sale");
jButton5.addActionListener(new java.awt.event.ActionListener() {
   public void actionPerformed(java.awt.event.ActionEvent evt) {
      jButton5ActionPerformed(evt);
   }
});
jButton6.setFont(new java.awt.Font("Century Schoolbook", 1, 18));
jButton6.setForeground(new java.awt.Color(204, 102, 0));
jButton6.setText("Exit");
jButton6.addActionListener(new java.awt.event.ActionListener() {
   public void actionPerformed(java.awt.event.ActionEvent evt) {
      jButton6ActionPerformed(evt);
   }
});
javax.swing.GroupLayout jPanel3Layout = new javax.swing.GroupLayout(jPanel3);
jPanel3.setLayout(jPanel3Layout);
jPanel3Layout.setHorizontalGroup(
   jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
```

```
        .addGroup(jPanel3Layout.createSequentialGroup()
            .addContainerGap()
.addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                .addComponent(jButton6, javax.swing.GroupLayout.DEFAULT_SIZE, 119,
Short.MAX_VALUE)
                .addComponent(jButton5, javax.swing.GroupLayout.DEFAULT_SIZE, 119,
Short.MAX_VALUE)
                .addComponent(jButton4, javax.swing.GroupLayout.DEFAULT_SIZE, 119,
Short.MAX_VALUE)
                .addComponent(jButton3, javax.swing.GroupLayout.DEFAULT_SIZE, 119,
Short.MAX_VALUE)
                .addComponent(jButton2, javax.swing.GroupLayout.DEFAULT_SIZE, 119,
Short.MAX_VALUE)
                .addComponent(jButton1))
            .addContainerGap())
    );
    jPanel3Layout.setVerticalGroup(
        jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(javax.swing.GroupLayout.Alignment.TRAILING, jPanel3Layout.createSequentialGroup()
            .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
            .addComponent(jButton1)
            .addGap(18, 18, 18)
            .addComponent(jButton2)
            .addGap(18, 18, 18)
            .addComponent(jButton3)
            .addGap(18, 18, 18)
            .addComponent(jButton4)
            .addGap(18, 18, 18)
            .addComponent(jButton5)
            .addGap(18, 18, 18)
            .addComponent(jButton6)
            .addGap(37, 37, 37))
    );
    jLabel1.setBackground(new java.awt.Color(204, 204, 255));
    jLabel1.setFont(new java.awt.Font("Times New Roman", 1, 36));
    jLabel1.setForeground(new java.awt.Color(0, 51, 255));
    jLabel1.setText("MPJ Medical Agency");
    jSeparator2.setOrientation(javax.swing.SwingConstants.VERTICAL);
    jSeparator3.setOrientation(javax.swing.SwingConstants.VERTICAL);
    jLabel5.setIcon(new javax.swing.ImageIcon("C:\\Medical Agency\\Pictures\\3.JPG"));
javax.swing.GroupLayout jPanel1Layout = new javax.swing.GroupLayout(jPanel1);
    jPanel1.setLayout(jPanel1Layout);
    jPanel1Layout.setHorizontalGroup(
        jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(jPanel1Layout.createSequentialGroup()
            .addGap(18, 18, 18)
            .addComponent(jSeparator3, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
            .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
            .addComponent(jPanel3, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
            .addGap(8, 8, 8)
            .addComponent(jSeparator2, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
            .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
```

```
                .addGroup(jPanel1Layout.createSequentialGroup()
                    .addGap(4, 4, 4)
.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                        .addGroup(jPanel1Layout.createSequentialGroup()
                            .addGap(23, 23, 23)
                            .addComponent(jLabel4))
                        .addGroup(jPanel1Layout.createSequentialGroup()
                            .addGap(6, 6, 6)
                            .addComponent(jLabel5)
                            .addGap(18, 18, 18)
                            .addComponent(jLabel2)
                            .addGap(810, 810, 810)
.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                                .addComponent(jSeparator1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
                                .addComponent(jLabel3)))))
                .addGroup(jPanel1Layout.createSequentialGroup()
                    .addGap(37, 37, 37)
                    .addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED_SIZE, 336,
javax.swing.GroupLayout.PREFERRED_SIZE)))
                .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
        );
        jPanel1Layout.setVerticalGroup(
            jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(jPanel1Layout.createSequentialGroup()
                .addComponent(jLabel1)
                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)
                    .addGroup(jPanel1Layout.createSequentialGroup()
.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                            .addGroup(jPanel1Layout.createSequentialGroup()
                                .addGap(18, 18, 18)
                                .addComponent(jLabel3)
                                .addGap(14, 14, 14)
                                .addComponent(jSeparator1, javax.swing.GroupLayout.PREFERRED_SIZE, 10,
javax.swing.GroupLayout.PREFERRED_SIZE))
                            .addGroup(jPanel1Layout.createSequentialGroup()
.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
                                .addComponent(jLabel2, javax.swing.GroupLayout.PREFERRED_SIZE, 284,
javax.swing.GroupLayout.PREFERRED_SIZE)))
                        .addGap(57, 57, 57))
                    .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
jPanel1Layout.createSequentialGroup()
.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)
                            .addGroup(jPanel1Layout.createSequentialGroup()
                                .addGap(6, 6, 6)
                                .addComponent(jPanel3, javax.swing.GroupLayout.PREFERRED_SIZE, 315,
javax.swing.GroupLayout.PREFERRED_SIZE))
                            .addComponent(jSeparator3, javax.swing.GroupLayout.PREFERRED_SIZE, 315,
javax.swing.GroupLayout.PREFERRED_SIZE)
                            .addComponent(jSeparator2, javax.swing.GroupLayout.PREFERRED_SIZE, 315,
javax.swing.GroupLayout.PREFERRED_SIZE)
                            .addGroup(jPanel1Layout.createSequentialGroup()
                                .addComponent(jLabel4)
                                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
```

```
                        .addComponent(jLabel5)))
                    .addGap(43, 43, 43)))
            .addContainerGap())
        );
        javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());
        getContentPane().setLayout(layout);
        layout.setHorizontalGroup(
            layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addComponent(jPanel1, javax.swing.GroupLayout.PREFERRED_SIZE, 735,
javax.swing.GroupLayout.PREFERRED_SIZE)
        );
        layout.setVerticalGroup(
            layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addComponent(jPanel1, javax.swing.GroupLayout.PREFERRED_SIZE, 394,
javax.swing.GroupLayout.PREFERRED_SIZE)
        );
        pack();
    }// </editor-fold>
    private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {
        Customer ob=new Customer();
        ob.setVisible(true);
        this.hide();
    }
    private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {
Vendor ob=new Vendor();
ob.setVisible(true);
this.hide();
    }
    private void jButton3ActionPerformed(java.awt.event.ActionEvent evt) {
Stock ob=new Stock();
ob.setVisible(true);
this.hide();
    }
    private void jButton4ActionPerformed(java.awt.event.ActionEvent evt) {
Purchase ob=new Purchase();
ob.setVisible(true);
this.hide();
    }
    private void jButton5ActionPerformed(java.awt.event.ActionEvent evt) {
Sale ob=new Sale();
ob.setVisible(true);
this.hide();
    }
    private void jButton6ActionPerformed(java.awt.event.ActionEvent evt) {
System.exit(0);
    }
    public static void main(String args[]) {
        java.awt.EventQueue.invokeLater(new Runnable() {
            public void run() {
                new Administrator().setVisible(true);
            }
        });
    }
    private javax.swing.JButton jButton1;
    private javax.swing.JButton jButton2;
    private javax.swing.JButton jButton3;
```

```
    private javax.swing.JButton jButton4;
    private javax.swing.JButton jButton5;
    private javax.swing.JButton jButton6;
    private javax.swing.JLabel jLabel1;
    private javax.swing.JLabel jLabel2;
    private javax.swing.JLabel jLabel3;
    private javax.swing.JLabel jLabel4;
    private javax.swing.JLabel jLabel5;
    private javax.swing.JPanel jPanel1;
    private javax.swing.JPanel jPanel3;
    private javax.swing.JSeparator jSeparator1;
    private javax.swing.JSeparator jSeparator2;
    private javax.swing.JSeparator jSeparator3;
}
```

Customer

```
public class Customer extends javax.swing.JFrame {
    public Customer() {
        initComponents();
    }
    private void initComponents() {
        jPanel1 = new javax.swing.JPanel();
        jSeparator1 = new javax.swing.JSeparator();
        jLabel5 = new javax.swing.JLabel();
        jSeparator3 = new javax.swing.JSeparator();
        jPanel3 = new javax.swing.JPanel();
        jLabel2 = new javax.swing.JLabel();
        jTextField1 = new javax.swing.JTextField();
        jLabel3 = new javax.swing.JLabel();
        jScrollPane1 = new javax.swing.JScrollPane();
        jTextArea1 = new javax.swing.JTextArea();
        jLabel4 = new javax.swing.JLabel();
        jTextField3 = new javax.swing.JTextField();
        jLabel7 = new javax.swing.JLabel();
        jTextField4 = new javax.swing.JTextField();
        jPanel4 = new javax.swing.JPanel();
        jButton2 = new javax.swing.JButton();
        jButton4 = new javax.swing.JButton();
        jButton1 = new javax.swing.JButton();
        jButton3 = new javax.swing.JButton();
        jLabel1 = new javax.swing.JLabel();
        jScrollPane2 = new javax.swing.JScrollPane();
        jTable1 = new javax.swing.JTable();
        jSeparator2 = new javax.swing.JSeparator();
        setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);
        jPanel1.setBackground(new java.awt.Color(0, 204, 204));
        jSeparator1.setBackground(new java.awt.Color(0, 0, 102));
        jLabel5.setFont(new java.awt.Font("Century Schoolbook", 1, 24));
        jLabel5.setForeground(new java.awt.Color(204, 102, 0));
        jLabel5.setText("Customer Details");
        jSeparator3.setForeground(new java.awt.Color(0, 0, 0));
        jPanel3.setBackground(new java.awt.Color(255, 204, 204));
        jLabel2.setFont(new java.awt.Font("Century Schoolbook", 1, 18));
        jLabel2.setForeground(new java.awt.Color(0, 102, 102));
```

```
jLabel2.setText("Name");
jTextField1.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jTextField1ActionPerformed(evt);
    }
});
jLabel3.setFont(new java.awt.Font("Century Schoolbook", 1, 18));
jLabel3.setForeground(new java.awt.Color(0, 102, 102));
jLabel3.setText("Address");
jTextArea1.setColumns(20);
jTextArea1.setRows(5);
jScrollPane1.setViewportView(jTextArea1);
jLabel4.setFont(new java.awt.Font("Century Schoolbook", 1, 18));
jLabel4.setForeground(new java.awt.Color(0, 102, 102));
jLabel4.setText("Contact_No");
jLabel7.setFont(new java.awt.Font("Century Schoolbook", 1, 18));
jLabel7.setForeground(new java.awt.Color(0, 102, 102));
jLabel7.setText("Customer_Id");
jPanel4.setBackground(new java.awt.Color(0, 204, 204));
jButton2.setFont(new java.awt.Font("Century Schoolbook", 1, 18));
jButton2.setForeground(new java.awt.Color(204, 102, 0));
jButton2.setText("Add");
jButton2.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton2ActionPerformed(evt);
    }
});
jButton4.setFont(new java.awt.Font("Century Schoolbook", 1, 18));
jButton4.setForeground(new java.awt.Color(204, 102, 0));
jButton4.setText("Update");
jButton4.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton4ActionPerformed(evt);
    }
});
jButton1.setFont(new java.awt.Font("Century Schoolbook", 1, 18));
jButton1.setForeground(new java.awt.Color(204, 102, 0));
jButton1.setText("Back");
jButton1.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton1ActionPerformed(evt);
    }
});
jButton3.setFont(new java.awt.Font("Century Schoolbook", 1, 18));
jButton3.setForeground(new java.awt.Color(204, 102, 0));
jButton3.setText("View");
jButton3.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton3ActionPerformed(evt);
    }
});
javax.swing.GroupLayout jPanel4Layout = new javax.swing.GroupLayout(jPanel4);
jPanel4.setLayout(jPanel4Layout);
jPanel4Layout.setHorizontalGroup(
    jPanel4Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(jPanel4Layout.createSequentialGroup()
```

```
            .addContainerGap()
.addGroup(jPanel4Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING, false)
                .addComponent(jButton3, javax.swing.GroupLayout.Alignment.LEADING,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE)
                .addComponent(jButton1, javax.swing.GroupLayout.Alignment.LEADING,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE)
                .addComponent(jButton2, javax.swing.GroupLayout.Alignment.LEADING,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE)
                .addComponent(jButton4, javax.swing.GroupLayout.Alignment.LEADING,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE))
            .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
        );
        jPanel4Layout.setVerticalGroup(
            jPanel4Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(jPanel4Layout.createSequentialGroup()
                .addContainerGap()
                .addComponent(jButton2)
                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
                .addComponent(jButton4)
                .addGap(15, 15, 15)
                .addComponent(jButton3)
                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
                .addComponent(jButton1)
                .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
        );
        javax.swing.GroupLayout jPanel3Layout = new javax.swing.GroupLayout(jPanel3);
        jPanel3.setLayout(jPanel3Layout);
        jPanel3Layout.setHorizontalGroup(
            jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(jPanel3Layout.createSequentialGroup()
                .addContainerGap()
.addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)
                    .addGroup(javax.swing.GroupLayout.Alignment.LEADING,
jPanel3Layout.createSequentialGroup()
                        .addComponent(jLabel7)
                        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                        .addComponent(jTextField4, javax.swing.GroupLayout.DEFAULT_SIZE, 156,
Short.MAX_VALUE))
                    .addGroup(jPanel3Layout.createSequentialGroup()

.addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                            .addComponent(jLabel2)
                            .addComponent(jLabel3)
                            .addComponent(jLabel4))
                        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 14,
Short.MAX_VALUE)
.addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)
                            .addComponent(jTextField3)
                            .addComponent(jTextField1, javax.swing.GroupLayout.Alignment.TRAILING,
javax.swing.GroupLayout.DEFAULT_SIZE, 136, Short.MAX_VALUE)
                            .addComponent(jScrollPane1, javax.swing.GroupLayout.Alignment.TRAILING,
javax.swing.GroupLayout.PREFERRED_SIZE, 156, javax.swing.GroupLayout.PREFERRED_SIZE))))
```

```
            .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
            .addComponent(jPanel4, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
            .addGap(10, 10, 10))
        );
        jPanel3Layout.setVerticalGroup(
            jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(jPanel3Layout.createSequentialGroup()
.addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                .addGroup(jPanel3Layout.createSequentialGroup()
                    .addContainerGap()
.addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                        .addComponent(jLabel2)
                        .addComponent(jTextField1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
                    .addGap(26, 26, 26)
.addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                        .addComponent(jLabel3)
                        .addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED_SIZE, 54,
javax.swing.GroupLayout.PREFERRED_SIZE))
                    .addGap(23, 23, 23)
.addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                        .addComponent(jLabel4)
                        .addComponent(jTextField3, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
                    .addGap(33, 33, 33)

.addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                        .addComponent(jTextField4, javax.swing.GroupLayout.DEFAULT_SIZE, 22,
Short.MAX_VALUE)
                        .addComponent(jLabel7)))
                .addGroup(jPanel3Layout.createSequentialGroup()
                    .addGap(20, 20, 20)
                    .addComponent(jPanel4, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)))
            .addContainerGap())
        );
        jLabel1.setBackground(new java.awt.Color(204, 204, 255));
        jLabel1.setFont(new java.awt.Font("Times New Roman", 1, 36));
        jLabel1.setForeground(new java.awt.Color(204, 102, 0));
        jLabel1.setText("MPJ Medical Agency");
        jTable1.setModel(new javax.swing.table.DefaultTableModel(
            new Object [][] {
                {null, null, null, null, null},
                {null, null, null, null, null},
                {null, null, null, null, null},
                {null, null, null, null, null},
                {null, null, null, null, null},
                {null, null, null, null, null},
                {null, null, null, null, null},
                {null, null, null, null, null},
                {null, null, null, null, null},
                {null, null, null, null, null},
                {null, null, null, null, null},
                {null, null, null, null, null}
            },
```

```
            new String [] {
                "S_No", "Name", "Address", "Contact_No", "ID"
            }
        ));
        jTable1.setGridColor(new java.awt.Color(153, 204, 255));
        jScrollPane2.setViewportView(jTable1);
        jSeparator2.setForeground(new java.awt.Color(0, 0, 0));
        javax.swing.GroupLayout jPanel1Layout = new javax.swing.GroupLayout(jPanel1);
        jPanel1.setLayout(jPanel1Layout);
        jPanel1Layout.setHorizontalGroup(
            jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(jPanel1Layout.createSequentialGroup()
.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                    .addGroup(jPanel1Layout.createSequentialGroup()
                        .addContainerGap()
.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                            .addGroup(jPanel1Layout.createSequentialGroup()
                                .addComponent(jPanel3, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
                                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                                .addComponent(jScrollPane2, javax.swing.GroupLayout.PREFERRED_SIZE, 369,
javax.swing.GroupLayout.PREFERRED_SIZE))
                            .addGroup(jPanel1Layout.createSequentialGroup()
.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING, false)
                                    .addComponent(jSeparator3, javax.swing.GroupLayout.Alignment.LEADING)
                                    .addComponent(jLabel5, javax.swing.GroupLayout.Alignment.LEADING,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE))
                                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 747,
Short.MAX_VALUE)
                                .addComponent(jSeparator1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))))
                    .addGroup(jPanel1Layout.createSequentialGroup()
                        .addGap(274, 274, 274)
                        .addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED_SIZE, 336,
javax.swing.GroupLayout.PREFERRED_SIZE)
                        .addGap(363, 363, 363))
                    .addComponent(jSeparator2, javax.swing.GroupLayout.PREFERRED_SIZE, 831,
javax.swing.GroupLayout.PREFERRED_SIZE))
                .addContainerGap())
        );
        jPanel1Layout.setVerticalGroup(
            jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(jPanel1Layout.createSequentialGroup()
                .addGap(10, 10, 10)
                .addComponent(jLabel1)
                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                .addComponent(jSeparator2, javax.swing.GroupLayout.PREFERRED_SIZE, 10,
javax.swing.GroupLayout.PREFERRED_SIZE)
                .addGap(18, 18, 18)
.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)
                    .addGroup(jPanel1Layout.createSequentialGroup()
                        .addComponent(jLabel5)
.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                            .addGroup(jPanel1Layout.createSequentialGroup()
                                .addGap(11, 11, 11)
```

```
                        .addComponent(jSeparator1, javax.swing.GroupLayout.PREFERRED_SIZE, 10,
javax.swing.GroupLayout.PREFERRED_SIZE))
                    .addGroup(jPanel1Layout.createSequentialGroup()
                        .addGap(8, 8, 8)
                        .addComponent(jSeparator3, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)))
                .addGap(20, 20, 20)
                .addComponent(jPanel3, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
            .addComponent(jScrollPane2, javax.swing.GroupLayout.PREFERRED_SIZE, 228,
javax.swing.GroupLayout.PREFERRED_SIZE))
        .addContainerGap(22, Short.MAX_VALUE))
    );
    javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());
    getContentPane().setLayout(layout);
    layout.setHorizontalGroup(
        layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addComponent(jPanel1, javax.swing.GroupLayout.PREFERRED_SIZE, 831,
javax.swing.GroupLayout.PREFERRED_SIZE)
    );
    layout.setVerticalGroup(
        layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addComponent(jPanel1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
    );
    pack();
  }// </editor-fold>
  private void jTextField1ActionPerformed(java.awt.event.ActionEvent evt) {
  }
  private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {
  Connection con;
PreparedStatement stm;
String s1="INSERT INTO Customer(Name, Address, Contact_No, Customer_ID) VALUES(?,?,?,?)";
try
{
Class.forName("sun.jdbc.odbc.JdbcOdbcDriver");
con=DriverManager.getConnection("jdbc:odbc:Sab", "", "");
stm=con.prepareStatement(s1);
stm.setString(1, jTextField1.getText());
stm.setString(2, jTextArea1.getText());
stm.setString(3, jTextField3.getText());
stm.setString(4, jTextField4.getText());
stm.executeUpdate();
jTextField1.setText("");
jTextArea1.setText("");
jTextField3.setText("");
jTextField4.setText("");
}
catch(Exception e)
{
System.out.println(e);
}
  }
  private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {
    Administrator ob=new Administrator();
    ob.setVisible(true);
```

```
        this.hide();
    }
    private void jButton3ActionPerformed(java.awt.event.ActionEvent evt) {
 Connection con1;
      Statement stm1;
      ResultSet rs;
      String s1="SELECT * FROM Customer";
       ArrayList a=new ArrayList();
        ArrayList b=new ArrayList();
        ArrayList c=new ArrayList();
        ArrayList d=new ArrayList();
        ArrayList e=new ArrayList();
        int i=0;
        try
        {
        Class.forName("sun.jdbc.odbc.JdbcOdbcDriver");
        con1=DriverManager.getConnection("jdbc:odbc:Sab","","");
        stm1=con1.createStatement();
        rs=stm1.executeQuery(s1);
        while(rs.next())
        {
        a.add(rs.getString(1));
           b.add(rs.getString(2));
             c.add(rs.getString(3));
                d.add(rs.getString(4));
                   e.add(rs.getString(5));
        }
        for(i=0;i<b.size();i++)
        {
      jTable1.setValueAt(b.get(i),i,0);
           jTable1.setValueAt(b.get(i),i,1);
        jTable1.setValueAt(c.get(i),i,2);
        jTable1.setValueAt(d.get(i),i,3);
        jTable1.setValueAt(e.get(i),i,4);
        }
        }
      catch(Exception exp)
      {
      }
    }
    private void jButton4ActionPerformed(java.awt.event.ActionEvent evt) {
  Connection con;
PreparedStatement stm;
String s1="UPDATE Customer SET Name=?, Address=?, Contact_No=? WHERE Customer_ID=? ";
try
{
Class.forName("sun.jdbc.odbc.JdbcOdbcDriver");
con=DriverManager.getConnection("jdbc:odbc:Sab", "", "");
stm=con.prepareStatement(s1);
stm.setString(1, jTextField1.getText());
stm.setString(2, jTextArea1.getText());
stm.setString(3, jTextField3.getText());
stm.setString(4, jTextField4.getText());
stm.executeUpdate();
jTextField1.setText("");
jTextArea1.setText("");
```

```
jTextField3.setText("");
jTextField4.setText("");
}
catch(Exception e)
{
System.out.println(e);
}
    }
    public static void main(String args[]) {
        java.awt.EventQueue.invokeLater(new Runnable() {
            public void run() {
                new Customer().setVisible(true);
            }
        });
    }
    private javax.swing.JButton jButton1;
    private javax.swing.JButton jButton2;
    private javax.swing.JButton jButton3;
    private javax.swing.JButton jButton4;
    private javax.swing.JLabel jLabel1;
    private javax.swing.JLabel jLabel2;
    private javax.swing.JLabel jLabel3;
    private javax.swing.JLabel jLabel4;
    private javax.swing.JLabel jLabel5;
    private javax.swing.JLabel jLabel7;
    private javax.swing.JPanel jPanel1;
    private javax.swing.JPanel jPanel3;
    private javax.swing.JPanel jPanel4;
    private javax.swing.JScrollPane jScrollPane1;
    private javax.swing.JScrollPane jScrollPane2;
    private javax.swing.JSeparator jSeparator1;
    private javax.swing.JSeparator jSeparator2;
    private javax.swing.JSeparator jSeparator3;
    private javax.swing.JTable jTable1;
    private javax.swing.JTextArea jTextArea1;
    private javax.swing.JTextField jTextField1;
    private javax.swing.JTextField jTextField3;
    private javax.swing.JTextField jTextField4;
}
```

Vendor

```
import java.sql.*;
import java.util.ArrayList;
public class Vendor extends javax.swing.JFrame {
    public Vendor() {
        initComponents();
}
    private void initComponents() {
        jPanel1 = new javax.swing.JPanel();
        jSeparator1 = new javax.swing.JSeparator();
        jSeparator2 = new javax.swing.JSeparator();
        jLabel5 = new javax.swing.JLabel();
        jPanel3 = new javax.swing.JPanel();
        jLabel2 = new javax.swing.JLabel();
```

```
jTextField1 = new javax.swing.JTextField();
jLabel3 = new javax.swing.JLabel();
jLabel4 = new javax.swing.JLabel();
jTextField3 = new javax.swing.JTextField();
jLabel6 = new javax.swing.JLabel();
jLabel7 = new javax.swing.JLabel();
jTextField4 = new javax.swing.JTextField();
jPanel4 = new javax.swing.JPanel();
jButton2 = new javax.swing.JButton();
jButton4 = new javax.swing.JButton();
jButton5 = new javax.swing.JButton();
jButton1 = new javax.swing.JButton();
jComboBox1 = new javax.swing.JComboBox();
jScrollPane1 = new javax.swing.JScrollPane();
jTextArea1 = new javax.swing.JTextArea();
jPanel5 = new javax.swing.JPanel();
jScrollPane2 = new javax.swing.JScrollPane();
jTable1 = new javax.swing.JTable();
jSeparator3 = new javax.swing.JSeparator();
jLabel1 = new javax.swing.JLabel();
setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);
jPanel1.setBackground(new java.awt.Color(153, 204, 255));
jSeparator1.setBackground(new java.awt.Color(0, 0, 102));
jSeparator2.setForeground(new java.awt.Color(0, 0, 0));
jLabel5.setFont(new java.awt.Font("Century Schoolbook", 1, 24));
jLabel5.setForeground(new java.awt.Color(51, 0, 153));
jLabel5.setText("Vendor Details");
jPanel3.setBackground(new java.awt.Color(255, 204, 255));
jLabel2.setFont(new java.awt.Font("Century Schoolbook", 1, 18));
jLabel2.setForeground(new java.awt.Color(51, 51, 255));
jLabel2.setText("Name");
jTextField1.setBackground(new java.awt.Color(255, 255, 204));
jTextField1.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jTextField1ActionPerformed(evt);
    }
});
jLabel3.setFont(new java.awt.Font("Century Schoolbook", 1, 18));
jLabel3.setForeground(new java.awt.Color(51, 51, 255));
jLabel3.setText("Address");

jLabel4.setFont(new java.awt.Font("Century Schoolbook", 1, 18));
jLabel4.setForeground(new java.awt.Color(51, 51, 255));
jLabel4.setText("Contact_No");
jTextField3.setBackground(new java.awt.Color(255, 255, 204));
jLabel6.setFont(new java.awt.Font("Century Schoolbook", 1, 18));
jLabel6.setForeground(new java.awt.Color(51, 51, 255));
jLabel6.setText("Vendor category");
jLabel7.setFont(new java.awt.Font("Century Schoolbook", 1, 18));
jLabel7.setForeground(new java.awt.Color(51, 51, 255));
jLabel7.setText("Vendor_Id");
jTextField4.setBackground(new java.awt.Color(255, 255, 204));
jPanel4.setBackground(new java.awt.Color(255, 204, 255));
jButton2.setFont(new java.awt.Font("Century Schoolbook", 1, 18));
jButton2.setText("Add");
jButton2.addActionListener(new java.awt.event.ActionListener() {
```

```
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            jButton2ActionPerformed(evt);
        }
    });
    jButton4.setFont(new java.awt.Font("Century Schoolbook", 1, 18));
    jButton4.setText("Update");
    jButton4.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            jButton4ActionPerformed(evt);
        }
    });
    jButton5.setFont(new java.awt.Font("Century Schoolbook", 1, 18));
    jButton5.setText("View ");
    jButton5.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            jButton5ActionPerformed(evt);
        }
    });
    jButton1.setFont(new java.awt.Font("Century Schoolbook", 1, 18));
    jButton1.setText("Back");
    jButton1.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            jButton1ActionPerformed(evt);
        }
    });
    javax.swing.GroupLayout jPanel4Layout = new javax.swing.GroupLayout(jPanel4);
    jPanel4.setLayout(jPanel4Layout);
    jPanel4Layout.setHorizontalGroup(
        jPanel4Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(jPanel4Layout.createSequentialGroup()
            .addContainerGap()
.addGroup(jPanel4Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING, false)
                .addComponent(jButton1, javax.swing.GroupLayout.Alignment.LEADING,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE)
                .addComponent(jButton5, javax.swing.GroupLayout.Alignment.LEADING,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE)
                .addComponent(jButton2, javax.swing.GroupLayout.Alignment.LEADING,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE)
                .addComponent(jButton4, javax.swing.GroupLayout.Alignment.LEADING,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE))
            .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
    );
    jPanel4Layout.setVerticalGroup(
        jPanel4Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(jPanel4Layout.createSequentialGroup()
            .addContainerGap()
            .addComponent(jButton2)
            .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
            .addComponent(jButton4)
            .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
            .addComponent(jButton5)
            .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
```

```
            .addComponent(jButton1)
            .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
        );
        jComboBox1.setBackground(new java.awt.Color(255, 255, 204));
        jComboBox1.setModel(new javax.swing.DefaultComboBoxModel(new String[] { "Dealer",
"Distributor", "Retailer", "Whole Saler" }));
        jTextArea1.setBackground(new java.awt.Color(255, 255, 204));
        jTextArea1.setColumns(20);
        jTextArea1.setRows(5);
        jScrollPane1.setViewportView(jTextArea1);
        javax.swing.GroupLayout jPanel3Layout = new javax.swing.GroupLayout(jPanel3);
        jPanel3.setLayout(jPanel3Layout);
        jPanel3Layout.setHorizontalGroup(
            jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(jPanel3Layout.createSequentialGroup()
                .addContainerGap()
.addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                    .addComponent(jLabel2)
                    .addComponent(jLabel3)
                    .addComponent(jLabel4)
                    .addComponent(jLabel6)
                    .addComponent(jLabel7))
                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
.addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)
                    .addComponent(jScrollPane1, 0, 0, Short.MAX_VALUE)
.addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING, false)
                        .addComponent(jComboBox1, javax.swing.GroupLayout.Alignment.LEADING, 0,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
                        .addComponent(jTextField3, javax.swing.GroupLayout.Alignment.LEADING)
                        .addComponent(jTextField1, javax.swing.GroupLayout.DEFAULT_SIZE, 136,
Short.MAX_VALUE)
                        .addComponent(jTextField4, javax.swing.GroupLayout.Alignment.LEADING)))
                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
                .addComponent(jPanel4, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
                .addGap(64, 64, 64))
        );
        jPanel3Layout.setVerticalGroup(
            jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(jPanel3Layout.createSequentialGroup()
.addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                    .addGroup(jPanel3Layout.createSequentialGroup()
                        .addContainerGap()
.addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                            .addComponent(jLabel2)
                            .addComponent(jTextField1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
.addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                            .addGroup(jPanel3Layout.createSequentialGroup()
                                .addGap(26, 26, 26)
                                .addComponent(jLabel3))
                            .addGroup(jPanel3Layout.createSequentialGroup()
                                .addGap(18, 18, 18)
                                .addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED_SIZE, 64,
javax.swing.GroupLayout.PREFERRED_SIZE)))
```

```
                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
.addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                    .addComponent(jLabel4)
                    .addComponent(jTextField3, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
                .addGap(18, 18, 18)
.addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                    .addGroup(jPanel3Layout.createSequentialGroup()
.addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                            .addComponent(jLabel6)
                            .addComponent(jComboBox1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
                        .addGap(18, 18, 18)
                        .addComponent(jLabel7))
                    .addGroup(jPanel3Layout.createSequentialGroup()
                        .addGap(38, 38, 38)
                        .addComponent(jTextField4, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))))
                .addGroup(jPanel3Layout.createSequentialGroup()
                    .addGap(34, 34, 34)
                    .addComponent(jPanel4, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)))
            .addContainerGap(19, Short.MAX_VALUE))
        );
        jPanel5.setBackground(new java.awt.Color(255, 204, 255));
        jTable1.setBackground(new java.awt.Color(255, 255, 204));
        jTable1.setModel(new javax.swing.table.DefaultTableModel(
            new Object [][] {
                {"", null, null, null, null, null},
                {"", null, null, null, null, null},
                {"", null, null, null, null, null},
                {"", null, null, null, null, null},
                {"", null, null, null, null, null},
                {"", null, null, null, null, null},
                {null, null, null, null, null, null},
                {null, null, null, null, null, null},
                {null, null, null, null, null, null},
                {null, null, null, null, null, null},
                {null, null, null, null, null, null},
                {null, null, null, null, null, null}
            },
            new String [] {
                "S.no", "Name", "Address", "Contact_No", "Category", "ID"
            }
        ));
        jTable1.setGridColor(new java.awt.Color(153, 204, 255));
        jScrollPane2.setViewportView(jTable1);
        javax.swing.GroupLayout jPanel5Layout = new javax.swing.GroupLayout(jPanel5);
        jPanel5.setLayout(jPanel5Layout);
        jPanel5Layout.setHorizontalGroup(
            jPanel5Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(jPanel5Layout.createSequentialGroup()
                .addContainerGap()
                .addComponent(jScrollPane2, javax.swing.GroupLayout.PREFERRED_SIZE, 441,
javax.swing.GroupLayout.PREFERRED_SIZE)
                .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
```

```
        );
        jPanel5Layout.setVerticalGroup(
            jPanel5Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(jPanel5Layout.createSequentialGroup()
                .addContainerGap()
                .addComponent(jScrollPane2, javax.swing.GroupLayout.PREFERRED_SIZE, 217,
javax.swing.GroupLayout.PREFERRED_SIZE)
                .addContainerGap(20, Short.MAX_VALUE))
        );
        jSeparator3.setForeground(new java.awt.Color(0, 0, 0));
        jLabel1.setBackground(new java.awt.Color(204, 204, 255));
        jLabel1.setFont(new java.awt.Font("Times New Roman", 1, 36));
        jLabel1.setForeground(new java.awt.Color(153, 0, 153));
        jLabel1.setText("MPJ Medical Agency");
        javax.swing.GroupLayout jPanel1Layout = new javax.swing.GroupLayout(jPanel1);
        jPanel1.setLayout(jPanel1Layout);
        jPanel1Layout.setHorizontalGroup(
            jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(javax.swing.GroupLayout.Alignment.TRAILING, jPanel1Layout.createSequentialGroup()
                .addContainerGap()
                .addComponent(jPanel3, javax.swing.GroupLayout.PREFERRED_SIZE, 450,
javax.swing.GroupLayout.PREFERRED_SIZE)
                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
                .addComponent(jPanel5, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
                .addGap(77, 77, 77)
                .addComponent(jSeparator1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
                .addGap(1068, 1068, 1068))
            .addGroup(jPanel1Layout.createSequentialGroup()
                .addContainerGap()
.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING, false)
                    .addComponent(jSeparator3, javax.swing.GroupLayout.Alignment.LEADING)
                    .addComponent(jLabel5, javax.swing.GroupLayout.Alignment.LEADING,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE))
                .addContainerGap(1880, Short.MAX_VALUE))
            .addGroup(jPanel1Layout.createSequentialGroup()
                .addGap(311, 311, 311)
                .addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED_SIZE, 336,
javax.swing.GroupLayout.PREFERRED_SIZE)
                .addContainerGap(1429, Short.MAX_VALUE))
            .addGroup(jPanel1Layout.createSequentialGroup()
                .addComponent(jSeparator2, javax.swing.GroupLayout.PREFERRED_SIZE, 963,
javax.swing.GroupLayout.PREFERRED_SIZE)
                .addContainerGap(1113, Short.MAX_VALUE))
        );
        jPanel1Layout.setVerticalGroup(
            jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(jPanel1Layout.createSequentialGroup()
                .addGap(22, 22, 22)
                .addComponent(jLabel1)
                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                .addComponent(jSeparator2, javax.swing.GroupLayout.PREFERRED_SIZE, 10,
javax.swing.GroupLayout.PREFERRED_SIZE)
                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
```

```
            .addComponent(jLabel5)
            .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
            .addComponent(jSeparator3, javax.swing.GroupLayout.PREFERRED_SIZE, 10,
javax.swing.GroupLayout.PREFERRED_SIZE)
            .addGap(7, 7, 7)
.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                .addComponent(jSeparator1, javax.swing.GroupLayout.PREFERRED_SIZE, 10,
javax.swing.GroupLayout.PREFERRED_SIZE)
                .addComponent(jPanel5, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
                .addComponent(jPanel3, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
            .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
        );
        javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());
        getContentPane().setLayout(layout);
        layout.setHorizontalGroup(
            layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addComponent(jPanel1, javax.swing.GroupLayout.PREFERRED_SIZE, 942,
javax.swing.GroupLayout.PREFERRED_SIZE)
        );
        layout.setVerticalGroup(
            layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addComponent(jPanel1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
        );
        pack();
    }// </editor-fold>
    private void jTextField1ActionPerformed(java.awt.event.ActionEvent evt) {
    }
    private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {
    Connection con;
PreparedStatement stm;
String s1="INSERT INTO Vendor (Vendor_Name, Address, Contact_No, Category,
Vendor_ID)VALUES(?,?,?,?,?)";
try
{
Class.forName("sun.jdbc.odbc.JdbcOdbcDriver");
con=DriverManager.getConnection("jdbc:odbc:Sab", "", "");
stm=con.prepareStatement(s1);
stm.setString(1, jTextField1.getText());
stm.setString(2, jTextArea1.getText());
stm.setString(3, jTextField3.getText());
stm.setString(4, jComboBox1.getSelectedItem().toString());
stm.setString(5, jTextField4.getText());
stm.executeUpdate();
jTextField1.setText("");
jTextArea1.setText("");
jTextField3.setText("");
jTextField4.setText("");
}
catch(Exception e)
{
System.out.println(e);
}
    }
```

```
    private void jButton5ActionPerformed(java.awt.event.ActionEvent evt) {
    Connection con;
      Statement stm;
      ResultSet rs;
      String s1="SELECT * FROM Vendor";
        ArrayList a=new ArrayList();
        ArrayList b=new ArrayList();
        ArrayList c=new ArrayList();
        ArrayList d=new ArrayList();
        ArrayList e=new ArrayList();
        ArrayList f=new ArrayList();
        int i=0;
        try
        {
        Class.forName("sun.jdbc.odbc.JdbcOdbcDriver");
        con=DriverManager.getConnection("jdbc:odbc:Sab","","");
        stm=con.createStatement();
        rs=stm.executeQuery(s1);
        while(rs.next())
        {
        a.add(rs.getString(1));
          b.add(rs.getString(2));
            c.add(rs.getString(3));
              d.add(rs.getString(4));
                e.add(rs.getString(5));
                  f.add(rs.getString(6));
        }
        for(i=0;i<b.size();i++)
        {
       jTable1.setValueAt(a.get(i),i,0);
           jTable1.setValueAt(b.get(i),i,1);
        jTable1.setValueAt(c.get(i),i,2);
        jTable1.setValueAt(d.get(i),i,3);
        jTable1.setValueAt(e.get(i),i,4);
        jTable1.setValueAt(f.get(i),i,5);
        }
        }
      catch(Exception exp)
      {
      }
    }
    private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {
        Administrator ob=new Administrator();
        ob.setVisible(true);
        this.hide();
    }
    private void jButton4ActionPerformed(java.awt.event.ActionEvent evt) {
 Connection con;
PreparedStatement stm;
String s1="UPDATE Vendor SET Vendor_Name=?, Address=?, Contact_No=?, Category=? WHERE
Vendor_ID=? ";
try
{
Class.forName("sun.jdbc.odbc.JdbcOdbcDriver");
con=DriverManager.getConnection("jdbc:odbc:Sab", "", "");
```

```
stm=con.prepareStatement(s1);
stm.setString(1, jTextField1.getText());
stm.setString(2, jTextArea1.getText());
stm.setString(3, jTextField3.getText());
stm.setString(4, jComboBox1.getSelectedItem().toString());
stm.setString(5, jTextField4.getText());
stm.executeUpdate();
jTextField1.setText("");
jTextArea1.setText("");
jTextField3.setText("");
jTextField4.setText("");
}
catch(Exception e)
{
System.out.println(e);
}
    }
    public static void main(String args[]) {
        java.awt.EventQueue.invokeLater(new Runnable() {
            public void run() {
                new Vendor().setVisible(true);
            }
        });
    }
    private javax.swing.JButton jButton1;
    private javax.swing.JButton jButton2;
    private javax.swing.JButton jButton4;
    private javax.swing.JButton jButton5;
    private javax.swing.JComboBox jComboBox1;
    private javax.swing.JLabel jLabel1;
    private javax.swing.JLabel jLabel2;
    private javax.swing.JLabel jLabel3;
    private javax.swing.JLabel jLabel4;
    private javax.swing.JLabel jLabel5;
    private javax.swing.JLabel jLabel6;
    private javax.swing.JLabel jLabel7;
    private javax.swing.JPanel jPanel1;
    private javax.swing.JPanel jPanel3;
    private javax.swing.JPanel jPanel4;
    private javax.swing.JPanel jPanel5;
    private javax.swing.JScrollPane jScrollPane1;
    private javax.swing.JScrollPane jScrollPane2;
    private javax.swing.JSeparator jSeparator1;
    private javax.swing.JSeparator jSeparator2;
    private javax.swing.JSeparator jSeparator3;
    private javax.swing.JTable jTable1;
    private javax.swing.JTextArea jTextArea1;
    private javax.swing.JTextField jTextField1;
    private javax.swing.JTextField jTextField3;
    private javax.swing.JTextField jTextField4;
}
```

Stock

```
import java.sql.*;
import java.util.ArrayList;
public class Stock extends javax.swing.JFrame {
    public Stock() {
        initComponents();
    }
    private void initComponents() {
        jPanel1 = new javax.swing.JPanel();
        jSeparator1 = new javax.swing.JSeparator();
        jSeparator2 = new javax.swing.JSeparator();
        jLabel5 = new javax.swing.JLabel();
        jSeparator3 = new javax.swing.JSeparator();
        jPanel5 = new javax.swing.JPanel();
        jScrollPane1 = new javax.swing.JScrollPane();
        jTable1 = new javax.swing.JTable();
        jLabel9 = new javax.swing.JLabel();
        jPanel6 = new javax.swing.JPanel();
        jLabel2 = new javax.swing.JLabel();
        jTextField1 = new javax.swing.JTextField();
        jLabel3 = new javax.swing.JLabel();
        jTextField10 = new javax.swing.JTextField();
        jLabel6 = new javax.swing.JLabel();
        jComboBox1 = new javax.swing.JComboBox();
        jLabel4 = new javax.swing.JLabel();
        jTextField4 = new javax.swing.JTextField();
        jLabel7 = new javax.swing.JLabel();
        jTextField5 = new javax.swing.JTextField();
        jLabel8 = new javax.swing.JLabel();
        jTextField7 = new javax.swing.JTextField();
        jLabel10 = new javax.swing.JLabel();
        jTextField8 = new javax.swing.JTextField();
        jLabel11 = new javax.swing.JLabel();
        jTextField3 = new javax.swing.JTextField();
        jPanel4 = new javax.swing.JPanel();
        jButton3 = new javax.swing.JButton();
        jButton4 = new javax.swing.JButton();
        jButton1 = new javax.swing.JButton();
        jButton2 = new javax.swing.JButton();
        jLabel1 = new javax.swing.JLabel();
        jLabel12 = new javax.swing.JLabel();
        jLabel14 = new javax.swing.JLabel();
        setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);
        addWindowListener(new java.awt.event.WindowAdapter() {
            public void windowOpened(java.awt.event.WindowEvent evt) {
                formWindowOpened(evt);
            }
        });
        jPanel1.setBackground(new java.awt.Color(255, 204, 204));
        jSeparator1.setBackground(new java.awt.Color(0, 0, 102));
        jSeparator1.setForeground(new java.awt.Color(51, 51, 51));
        jSeparator2.setForeground(new java.awt.Color(0, 0, 0));
        jLabel5.setFont(new java.awt.Font("Century Schoolbook", 1, 24));
        jLabel5.setForeground(new java.awt.Color(51, 0, 153));
```

```
        jLabel5.setText("Stock Details");
        jPanel5.setBackground(new java.awt.Color(0, 255, 255));
        jTable1.setBackground(new java.awt.Color(255, 255, 204));
        jTable1.setModel(new javax.swing.table.DefaultTableModel(
            new Object [][] {
                {null, null, null, null, null, null, null, null},
                {null, null, null, null, null, null, null, null},
                {null, null, null, null, null, null, null, null},
                {null, null, null, null, null, null, null, null},
                {null, null, null, null, null, null, null, null},
                {null, null, null, null, null, null, null, null},
                {null, null, null, null, null, null, null, null},
                {null, null, null, null, null, null, null, null},
                {null, null, null, null, null, null, null, null},
                {null, null, null, null, null, null, null, null},
                {null, null, null, null, null, null, null, null},
                {null, null, null, null, null, null, null, null}
            },
            new String [] {
                "S_No", "Product", "Id", "V_Id", "MfdDate", "ExpDate", "Av_Qty", "Price"
            }
        ));
        jTable1.setGridColor(new java.awt.Color(153, 204, 255));
        jScrollPane1.setViewportView(jTable1);
        javax.swing.GroupLayout jPanel5Layout = new javax.swing.GroupLayout(jPanel5);
        jPanel5.setLayout(jPanel5Layout);
        jPanel5Layout.setHorizontalGroup(
            jPanel5Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(jPanel5Layout.createSequentialGroup()
                .addContainerGap()
                .addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
                .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
        );
        jPanel5Layout.setVerticalGroup(
            jPanel5Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(jPanel5Layout.createSequentialGroup()
                .addContainerGap()
                .addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED_SIZE, 234,
javax.swing.GroupLayout.PREFERRED_SIZE)
                .addContainerGap(12, Short.MAX_VALUE))
        );
        jPanel6.setBackground(new java.awt.Color(0, 255, 255));
        jLabel2.setFont(new java.awt.Font("Century Schoolbook", 1, 18));
        jLabel2.setForeground(new java.awt.Color(51, 51, 255));
        jLabel2.setText("Product Name");
        jTextField1.setBackground(new java.awt.Color(255, 255, 204));
        jTextField1.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                jTextField1ActionPerformed(evt);
            }
        });
        jLabel3.setFont(new java.awt.Font("Century Schoolbook", 1, 18));
        jLabel3.setForeground(new java.awt.Color(51, 51, 255));
        jLabel3.setText("Product_Id");
```

```
jTextField10.setBackground(new java.awt.Color(255, 255, 204));
jLabel6.setFont(new java.awt.Font("Century Schoolbook", 1, 18));
jLabel6.setForeground(new java.awt.Color(51, 51, 255));
jLabel6.setText("Vendor Name");
jComboBox1.setBackground(new java.awt.Color(255, 255, 204));
jComboBox1.addItemListener(new java.awt.event.ItemListener() {
    public void itemStateChanged(java.awt.event.ItemEvent evt) {
        jComboBox1ItemStateChanged(evt);
    }
});
jLabel4.setFont(new java.awt.Font("Century Schoolbook", 1, 18));
jLabel4.setForeground(new java.awt.Color(51, 51, 255));
jLabel4.setText("Vendor_Id");
jTextField4.setBackground(new java.awt.Color(255, 255, 204));
jLabel7.setFont(new java.awt.Font("Century Schoolbook", 1, 18));
jLabel7.setForeground(new java.awt.Color(51, 51, 255));
jLabel7.setText("Mfd Date");
jTextField5.setBackground(new java.awt.Color(255, 255, 204));
jLabel8.setFont(new java.awt.Font("Century Schoolbook", 1, 18));
jLabel8.setForeground(new java.awt.Color(51, 51, 255));
jLabel8.setText("Exp Date");
jTextField7.setBackground(new java.awt.Color(255, 255, 204));
jLabel10.setFont(new java.awt.Font("Century Schoolbook", 1, 18));
jLabel10.setForeground(new java.awt.Color(51, 51, 255));
jLabel10.setText("Av_Qty");
jTextField8.setBackground(new java.awt.Color(255, 255, 204));
jLabel11.setFont(new java.awt.Font("Century Schoolbook", 1, 18));
jLabel11.setForeground(new java.awt.Color(51, 51, 255));
jLabel11.setText("Price");
jTextField3.setBackground(new java.awt.Color(255, 255, 204));
jPanel4.setBackground(new java.awt.Color(0, 255, 255));
jButton3.setFont(new java.awt.Font("Century Schoolbook", 1, 18));
jButton3.setForeground(new java.awt.Color(153, 0, 153));
jButton3.setText("Add");
jButton3.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton3ActionPerformed(evt);
    }
});
jButton4.setFont(new java.awt.Font("Century Schoolbook", 1, 18));
jButton4.setForeground(new java.awt.Color(153, 0, 153));
jButton4.setText("Update");
jButton4.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton4ActionPerformed(evt);
    }
});
jButton1.setFont(new java.awt.Font("Century Schoolbook", 1, 18));
jButton1.setForeground(new java.awt.Color(153, 0, 153));
jButton1.setText("Back");
jButton1.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton1ActionPerformed(evt);
    }
});
jButton2.setFont(new java.awt.Font("Century Schoolbook", 1, 18));
```

```
        jButton2.setForeground(new java.awt.Color(153, 0, 153));
        jButton2.setText("View");
        jButton2.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                jButton2ActionPerformed(evt);
            }
        });
        javax.swing.GroupLayout jPanel4Layout = new javax.swing.GroupLayout(jPanel4);
        jPanel4.setLayout(jPanel4Layout);
        jPanel4Layout.setHorizontalGroup(
            jPanel4Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(jPanel4Layout.createSequentialGroup()
                .addContainerGap()
.addGroup(jPanel4Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING, false)
                    .addComponent(jButton1, javax.swing.GroupLayout.Alignment.LEADING,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE)
                    .addComponent(jButton2, javax.swing.GroupLayout.Alignment.LEADING,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE)
                    .addComponent(jButton3, javax.swing.GroupLayout.Alignment.LEADING,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE)
                    .addComponent(jButton4, javax.swing.GroupLayout.Alignment.LEADING,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE))
                .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
        );
        jPanel4Layout.setVerticalGroup(
            jPanel4Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(jPanel4Layout.createSequentialGroup()
                .addContainerGap()
                .addComponent(jButton3)
                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
                .addComponent(jButton4)
                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 14,
Short.MAX_VALUE)
                .addComponent(jButton2)
                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                .addComponent(jButton1)
                .addContainerGap())
        );
        javax.swing.GroupLayout jPanel6Layout = new javax.swing.GroupLayout(jPanel6);
        jPanel6.setLayout(jPanel6Layout);
        jPanel6Layout.setHorizontalGroup(
            jPanel6Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(jPanel6Layout.createSequentialGroup()
                .addContainerGap()
.addGroup(jPanel6Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                    .addComponent(jLabel2)
                    .addComponent(jLabel3)
                    .addComponent(jLabel6)
                    .addComponent(jLabel4)
                    .addComponent(jLabel7)
                    .addComponent(jLabel8)
                    .addComponent(jLabel10)
```

```
                .addComponent(jLabel11))
            .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
.addGroup(jPanel6Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                .addComponent(jTextField3, javax.swing.GroupLayout.DEFAULT_SIZE, 128,
Short.MAX_VALUE)
                .addComponent(jTextField8, javax.swing.GroupLayout.DEFAULT_SIZE, 128,
Short.MAX_VALUE)
                .addComponent(jTextField7, javax.swing.GroupLayout.DEFAULT_SIZE, 128,
Short.MAX_VALUE)
                .addComponent(jTextField5, javax.swing.GroupLayout.DEFAULT_SIZE, 128,
Short.MAX_VALUE)
                .addComponent(jTextField4, javax.swing.GroupLayout.DEFAULT_SIZE, 128,
Short.MAX_VALUE)
                .addComponent(jComboBox1, 0, 128, Short.MAX_VALUE)
                .addComponent(jTextField10, javax.swing.GroupLayout.DEFAULT_SIZE, 128,
Short.MAX_VALUE)
                .addComponent(jTextField1, javax.swing.GroupLayout.DEFAULT_SIZE, 128,
Short.MAX_VALUE))
            .addGap(10, 10, 10)
            .addComponent(jPanel4, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
            .addContainerGap())
        );
        jPanel6Layout.setVerticalGroup(
            jPanel6Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(jPanel6Layout.createSequentialGroup()
.addGroup(jPanel6Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                .addGroup(jPanel6Layout.createSequentialGroup()
                    .addContainerGap()
.addGroup(jPanel6Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                        .addComponent(jTextField1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
                        .addComponent(jLabel2))
                    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
.addGroup(jPanel6Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                        .addComponent(jLabel3)
                        .addComponent(jTextField10, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
                    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
.addGroup(jPanel6Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                        .addComponent(jLabel6)
                        .addComponent(jComboBox1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
                    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
.addGroup(jPanel6Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                        .addComponent(jLabel4)
                        .addComponent(jTextField4, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
                    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
.addGroup(jPanel6Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                        .addComponent(jLabel7)
                        .addComponent(jTextField5, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
                    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
.addGroup(jPanel6Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                        .addComponent(jLabel8)
```

```
                    .addComponent(jTextField7, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
.addGroup(jPanel6Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                    .addComponent(jLabel10)
                    .addComponent(jTextField8, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
.addGroup(jPanel6Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                    .addComponent(jLabel11)
                    .addComponent(jTextField3, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)))
            .addGroup(jPanel6Layout.createSequentialGroup()
                .addGap(43, 43, 43)
                .addComponent(jPanel4, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)))
            .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
        );
        jLabel1.setBackground(new java.awt.Color(204, 204, 255));
        jLabel1.setFont(new java.awt.Font("Times New Roman", 1, 36));
        jLabel1.setForeground(new java.awt.Color(153, 0, 153));
        jLabel1.setText("MPJ Medical Agency");
        jLabel14.setIcon(new javax.swing.ImageIcon("C:\\Medical Agency\\Pictures\\b1.JPG"));
javax.swing.GroupLayout jPanel1Layout = new javax.swing.GroupLayout(jPanel1);
        jPanel1.setLayout(jPanel1Layout);
        jPanel1Layout.setHorizontalGroup(
            jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(jPanel1Layout.createSequentialGroup()
.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                .addGroup(jPanel1Layout.createSequentialGroup()
.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                    .addGroup(jPanel1Layout.createSequentialGroup()
.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                        .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
jPanel1Layout.createSequentialGroup()
                            .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE)
                            .addComponent(jPanel6, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
                            .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                            .addComponent(jPanel5, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED))
                        .addGroup(jPanel1Layout.createSequentialGroup()
                            .addGap(238, 238, 238)
                            .addComponent(jLabel12)
.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                            .addComponent(jLabel14)
                            .addGap(224, 224, 224)))
                    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                    .addComponent(jSeparator3, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
                    .addGap(699, 699, 699))
                .addGroup(jPanel1Layout.createSequentialGroup()
                    .addGap(378, 378, 378)
.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING, false)
```

```
                        .addComponent(jSeparator1, javax.swing.GroupLayout.Alignment.LEADING)
                        .addComponent(jLabel5, javax.swing.GroupLayout.Alignment.LEADING))
                    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)))
                .addComponent(jLabel9))
            .addComponent(jSeparator2, javax.swing.GroupLayout.PREFERRED_SIZE, 942,
javax.swing.GroupLayout.PREFERRED_SIZE)
            .addGroup(jPanel1Layout.createSequentialGroup()
                .addGap(298, 298, 298)
                .addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED_SIZE, 336,
javax.swing.GroupLayout.PREFERRED_SIZE)))
        .addContainerGap())
    );
    jPanel1Layout.setVerticalGroup(
      jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
      .addGroup(jPanel1Layout.createSequentialGroup()
.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(jPanel1Layout.createSequentialGroup()
                .addGap(10, 10, 10)
                .addComponent(jLabel1)
                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
                .addComponent(jSeparator2, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
                .addGap(9, 9, 9)
.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                    .addComponent(jLabel12, javax.swing.GroupLayout.PREFERRED_SIZE, 229,
javax.swing.GroupLayout.PREFERRED_SIZE)
                    .addComponent(jLabel14))
                .addGap(22, 22, 22)
.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                    .addGroup(jPanel1Layout.createSequentialGroup()
                        .addGap(52, 52, 52)
.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)
                            .addComponent(jPanel5, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
                            .addComponent(jPanel6, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)))

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)
                        .addComponent(jSeparator3, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
                        .addComponent(jLabel9, javax.swing.GroupLayout.PREFERRED_SIZE, 210,
javax.swing.GroupLayout.PREFERRED_SIZE))))
            .addGroup(jPanel1Layout.createSequentialGroup()
                .addGap(314, 314, 314)
                .addComponent(jLabel5)
                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                .addComponent(jSeparator1, javax.swing.GroupLayout.PREFERRED_SIZE, 10,
javax.swing.GroupLayout.PREFERRED_SIZE)))
        .addContainerGap(20, Short.MAX_VALUE))
    );
    javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());
    getContentPane().setLayout(layout);
    layout.setHorizontalGroup(
      layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
      .addComponent(jPanel1, javax.swing.GroupLayout.PREFERRED_SIZE, 928,
javax.swing.GroupLayout.PREFERRED_SIZE)
```

```
        );
        layout.setVerticalGroup(
            layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addComponent(jPanel1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
        );
        pack();
    }// </editor-fold>
    private void jButton3ActionPerformed(java.awt.event.ActionEvent evt) {
     Connection con;
PreparedStatement stm;
String s1="INSERT INTO Stock (Product_Name, Product_ID, Vendor_ID, Mfd_Date, Exp_Date,
Available_Qty, Price)VALUES(?,?,?,?,?,?,?)";
try
{
Class.forName("sun.jdbc.odbc.JdbcOdbcDriver");
con=DriverManager.getConnection("jdbc:odbc:Sab", "", "");
stm=con.prepareStatement(s1);
stm.setString(1, jTextField1.getText());
stm.setString(2, jTextField10.getText());
stm.setString(3, jTextField4.getText());
stm.setString(4, jTextField5.getText());
stm.setString(5, jTextField7.getText());
stm.setString(6, jTextField8.getText());
stm.setString(7, jTextField3.getText());
stm.executeUpdate();
jTextField1.setText("");
jTextField10.setText("");
jTextField5.setText("");
jTextField7.setText("");
jTextField8.setText("");
jTextField3.setText("");
}
catch(Exception e)
{
System.out.println(e);
}
    }
    private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {
        Administrator ob=new Administrator();
        ob.setVisible(true);
        this.hide();
    }
    private void jTextField1ActionPerformed(java.awt.event.ActionEvent evt) {
    }
    private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {
Connection con1;
      Statement stm1;
      ResultSet rs;
      String s1="SELECT * FROM Stock";
        ArrayList a=new ArrayList();
        ArrayList b=new ArrayList();
        ArrayList c=new ArrayList();
        ArrayList d=new ArrayList();
        ArrayList e=new ArrayList();
        ArrayList f=new ArrayList();
```

```
    ArrayList g=new ArrayList();
    ArrayList h=new ArrayList();
    int i=0;
    try
    {
    Class.forName("sun.jdbc.odbc.JdbcOdbcDriver");
    con1=DriverManager.getConnection("jdbc:odbc:Sab","","");
    stm1=con1.createStatement();
    rs=stm1.executeQuery(s1);
    while(rs.next())
    {
    a.add(rs.getString(1));
      b.add(rs.getString(2));
        c.add(rs.getString(3));
          d.add(rs.getString(4));
            e.add(rs.getString(5));
            f.add(rs.getString(6));
            g.add(rs.getString(7));
            h.add(rs.getString(8));
    }
    for(i=0;i<a.size();i++)
    {
   jTable1.setValueAt(a.get(i),i,0);
       jTable1.setValueAt(b.get(i),i,1);
    jTable1.setValueAt(c.get(i),i,2);
    jTable1.setValueAt(d.get(i),i,3);
    jTable1.setValueAt(e.get(i),i,4);
    jTable1.setValueAt(e.get(i),i,5);
    jTable1.setValueAt(e.get(i),i,6);
    jTable1.setValueAt(e.get(i),i,7);
    }
    }
   catch(Exception exp)
   {
   }
  }
  private void formWindowOpened(java.awt.event.WindowEvent evt) {
Connection con1;
    Statement stm1;
    ResultSet rs1;
    String s2="SELECT * FROM Vendor";
      ArrayList b=new ArrayList();
    int j=0,d1=0;
    try
    {
    Class.forName("sun.jdbc.odbc.JdbcOdbcDriver");
    con1=DriverManager.getConnection("jdbc:odbc:Sab","","");
    stm1=con1.createStatement();
    rs1=stm1.executeQuery(s2);
    while(rs1.next())
    {
            b.add(rs1.getString(2));
     }
     d1=b.size();
     for(j=0;j<d1;j++)
    {
```

```
        jComboBox1.addItem(b.get(j));
        }
        }
      catch(Exception exp)
      {
      }
    }
    private void jComboBox1ItemStateChanged(java.awt.event.ItemEvent evt) {
 Connection con;
      Statement stm;
      ResultSet rs;
      String s1="SELECT * FROM Vendor";
       String ss="";
        ArrayList b=new ArrayList();
        int i=0,d;
        d=jComboBox1.getSelectedIndex();
        try
        {
        Class.forName("sun.jdbc.odbc.JdbcOdbcDriver");
        con=DriverManager.getConnection("jdbc:odbc:Sab","","");
        stm=con.createStatement();
        rs=stm.executeQuery(s1);
        while(rs.next())
        {
                b.add(rs.getString(6));
          }
         jTextField4.setText(""+b.get(d));
        }
      catch(Exception exp)
      {
      }
    }
    private void jButton4ActionPerformed(java.awt.event.ActionEvent evt) {
  Connection con;
PreparedStatement stm;
String s1="UPDATE Stock SET Product_Name=?, Vendor_ID=?, Mfd_Date=?, Exp_Date=?,
Available_Qty=?, Price=? WHERE Product_ID=?";
try
{
Class.forName("sun.jdbc.odbc.JdbcOdbcDriver");
con=DriverManager.getConnection("jdbc:odbc:Sab","","");
stm=con.prepareStatement(s1);
stm.setString(1, jTextField1.getText());
stm.setString(2, jTextField4.getText());
stm.setString(3, jTextField5.getText());
stm.setString(4, jTextField7.getText());
stm.setString(5, jTextField8.getText());
stm.setString(6, jTextField3.getText());
stm.setString(7, jTextField10.getText());
stm.executeUpdate();
jTextField1.setText("");
jTextField10.setText("");
jTextField5.setText("");
jTextField7.setText("");
jTextField8.setText("");
jTextField3.setText("");
```

```
}
catch(Exception e)
{
System.out.println(e);
}
    }
    public static void main(String args[]) {
        java.awt.EventQueue.invokeLater(new Runnable() {
            public void run() {
                new Stock().setVisible(true);
            }
        });}
    private javax.swing.JButton jButton1;
    private javax.swing.JButton jButton2;
    private javax.swing.JButton jButton3;
    private javax.swing.JButton jButton4;
    private javax.swing.JComboBox jComboBox1;
    private javax.swing.JLabel jLabel1;
    private javax.swing.JLabel jLabel10;
    private javax.swing.JLabel jLabel11;
    private javax.swing.JLabel jLabel12;
    private javax.swing.JLabel jLabel14;
    private javax.swing.JLabel jLabel2;
    private javax.swing.JLabel jLabel3;
    private javax.swing.JLabel jLabel4;
    private javax.swing.JLabel jLabel5;
    private javax.swing.JLabel jLabel6;
    private javax.swing.JLabel jLabel7;
    private javax.swing.JLabel jLabel8;
    private javax.swing.JLabel jLabel9;
    private javax.swing.JPanel jPanel1;
    private javax.swing.JPanel jPanel4;
    private javax.swing.JPanel jPanel5;
    private javax.swing.JPanel jPanel6;
    private javax.swing.JScrollPane jScrollPane1;
    private javax.swing.JSeparator jSeparator1;
    private javax.swing.JSeparator jSeparator2;
    private javax.swing.JSeparator jSeparator3;
    private javax.swing.JTable jTable1;
    private javax.swing.JTextField jTextField1;
    private javax.swing.JTextField jTextField10;
    private javax.swing.JTextField jTextField3;
    private javax.swing.JTextField jTextField4;
    private javax.swing.JTextField jTextField5;
    private javax.swing.JTextField jTextField7;
    private javax.swing.JTextField jTextField8;
}
```

Purchase

```
import java.sql.*;
public class Purchase extends javax.swing.JFrame {
    public Purchase() {
        initComponents();
    }
```

```
private void initComponents() {
    jPanel1 = new javax.swing.JPanel();
    jSeparator1 = new javax.swing.JSeparator();
    jSeparator2 = new javax.swing.JSeparator();
    jLabel5 = new javax.swing.JLabel();
    jSeparator3 = new javax.swing.JSeparator();
    jPanel3 = new javax.swing.JPanel();
    jLabel2 = new javax.swing.JLabel();
    jLabel3 = new javax.swing.JLabel();
    jLabel6 = new javax.swing.JLabel();
    jLabel7 = new javax.swing.JLabel();
    jLabel8 = new javax.swing.JLabel();
    jLabel11 = new javax.swing.JLabel();
    jLabel10 = new javax.swing.JLabel();
    jLabel4 = new javax.swing.JLabel();
    jComboBox1 = new javax.swing.JComboBox();
    jTextField1 = new javax.swing.JTextField();
    jComboBox2 = new javax.swing.JComboBox();
    jTextField2 = new javax.swing.JTextField();
    jTextField3 = new javax.swing.JTextField();
    jTextField4 = new javax.swing.JTextField();
    jTextField5 = new javax.swing.JTextField();
    jTextField6 = new javax.swing.JTextField();
    jPanel5 = new javax.swing.JPanel();
    jButton3 = new javax.swing.JButton();
    jButton4 = new javax.swing.JButton();
    jButton1 = new javax.swing.JButton();
    jButton2 = new javax.swing.JButton();
    jTextField7 = new javax.swing.JTextField();
    jPanel6 = new javax.swing.JPanel();
    jScrollPane1 = new javax.swing.JScrollPane();
    jTable1 = new javax.swing.JTable();
    jLabel1 = new javax.swing.JLabel();
    setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);
    addWindowListener(new java.awt.event.WindowAdapter() {
        public void windowOpened(java.awt.event.WindowEvent evt) {
            formWindowOpened(evt);
        }
    });
    jPanel1.setBackground(new java.awt.Color(204, 255, 204));
    jSeparator1.setBackground(new java.awt.Color(0, 0, 102));
    jSeparator2.setForeground(new java.awt.Color(0, 0, 0));
    jLabel5.setFont(new java.awt.Font("Century Schoolbook", 1, 24));
    jLabel5.setForeground(new java.awt.Color(51, 0, 153));
    jLabel5.setText("Purchase Details");
    jSeparator3.setForeground(new java.awt.Color(0, 0, 0));
    jPanel3.setBackground(new java.awt.Color(153, 204, 255));
    jLabel2.setFont(new java.awt.Font("Century Schoolbook", 1, 18));
    jLabel2.setForeground(new java.awt.Color(51, 51, 255));
    jLabel2.setText("Product Name");
    jLabel3.setFont(new java.awt.Font("Century Schoolbook", 1, 18));
    jLabel3.setForeground(new java.awt.Color(51, 51, 255));
    jLabel3.setText("Product_Id");
    jLabel6.setFont(new java.awt.Font("Century Schoolbook", 1, 18));
    jLabel6.setForeground(new java.awt.Color(51, 51, 255));
    jLabel6.setText("Vendor Name");
```

```
jLabel7.setFont(new java.awt.Font("Century Schoolbook", 1, 18));
jLabel7.setForeground(new java.awt.Color(51, 51, 255));
jLabel7.setText("Payment Paid");
jLabel8.setFont(new java.awt.Font("Century Schoolbook", 1, 18));
jLabel8.setForeground(new java.awt.Color(51, 51, 255));
jLabel8.setText("Payment Due");
jLabel11.setFont(new java.awt.Font("Century Schoolbook", 1, 18));
jLabel11.setForeground(new java.awt.Color(51, 51, 255));
jLabel11.setText("Price");
jLabel10.setFont(new java.awt.Font("Century Schoolbook", 1, 18));
jLabel10.setForeground(new java.awt.Color(51, 51, 255));
jLabel10.setText("Qty");
jLabel4.setFont(new java.awt.Font("Century Schoolbook", 1, 18));
jLabel4.setForeground(new java.awt.Color(51, 51, 255));
jLabel4.setText("Vendor_Id");
jComboBox1.setBackground(new java.awt.Color(255, 255, 204));
jComboBox1.addItemListener(new java.awt.event.ItemListener() {
    public void itemStateChanged(java.awt.event.ItemEvent evt) {
        jComboBox1ItemStateChanged(evt);
    }
});
jTextField1.setBackground(new java.awt.Color(255, 255, 204));
jComboBox2.setBackground(new java.awt.Color(255, 255, 204));
jComboBox2.addItemListener(new java.awt.event.ItemListener() {
    public void itemStateChanged(java.awt.event.ItemEvent evt) {
        jComboBox2ItemStateChanged(evt);
    }
});
jTextField2.setBackground(new java.awt.Color(255, 255, 204));
jTextField3.setBackground(new java.awt.Color(255, 255, 204));
jTextField3.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jTextField3ActionPerformed(evt);
    }
});
jTextField4.setBackground(new java.awt.Color(255, 255, 204));
jTextField5.setBackground(new java.awt.Color(255, 255, 204));
jTextField6.setBackground(new java.awt.Color(255, 255, 204));

jPanel5.setBackground(new java.awt.Color(153, 204, 255));
jButton3.setFont(new java.awt.Font("Century Schoolbook", 1, 18));
jButton3.setText("Add");
jButton3.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton3ActionPerformed(evt);
    }
});
jButton4.setFont(new java.awt.Font("Century Schoolbook", 1, 18));
jButton4.setText("Update");
jButton4.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton4ActionPerformed(evt);
    }
});
jButton1.setFont(new java.awt.Font("Century Schoolbook", 1, 18));
jButton1.setText("Back");
```

```
        jButton1.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                jButton1ActionPerformed(evt);
            }
        });
        jButton2.setFont(new java.awt.Font("Century Schoolbook", 1, 18));
        jButton2.setText("View");
        jButton2.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                jButton2ActionPerformed(evt);
            }
        });
        javax.swing.GroupLayout jPanel5Layout = new javax.swing.GroupLayout(jPanel5);
        jPanel5.setLayout(jPanel5Layout);
        jPanel5Layout.setHorizontalGroup(
            jPanel5Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(jPanel5Layout.createSequentialGroup()
                .addContainerGap()
.addGroup(jPanel5Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING, false)
                    .addComponent(jButton1, javax.swing.GroupLayout.Alignment.LEADING,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE)
                    .addComponent(jButton2, javax.swing.GroupLayout.Alignment.LEADING,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE)
                    .addComponent(jButton3, javax.swing.GroupLayout.Alignment.LEADING,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE)
                    .addComponent(jButton4, javax.swing.GroupLayout.Alignment.LEADING,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE))
                .addContainerGap())
        );
        jPanel5Layout.setVerticalGroup(
            jPanel5Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(jPanel5Layout.createSequentialGroup()
                .addContainerGap()
                .addComponent(jButton3)
                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
                .addComponent(jButton4)
                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
                .addComponent(jButton2)
                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
                .addComponent(jButton1)
                .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
        );
        jTextField7.setBackground(new java.awt.Color(255, 255, 204));

        javax.swing.GroupLayout jPanel3Layout = new javax.swing.GroupLayout(jPanel3);
        jPanel3.setLayout(jPanel3Layout);
        jPanel3Layout.setHorizontalGroup(
            jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(jPanel3Layout.createSequentialGroup()
                .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
.addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                    .addComponent(jLabel2)
```

```
                .addComponent(jLabel3)
                .addComponent(jLabel6)
                .addComponent(jLabel4)
                .addComponent(jLabel10)
                .addComponent(jLabel11)
                .addComponent(jLabel7)
                .addComponent(jLabel8))
            .addGap(27, 27, 27)
.addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)
                .addComponent(jTextField7)
                .addComponent(jTextField6, javax.swing.GroupLayout.Alignment.TRAILING)
                .addComponent(jTextField3)
                .addComponent(jComboBox2, 0, javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE)
                .addComponent(jTextField2, javax.swing.GroupLayout.DEFAULT_SIZE, 156,
Short.MAX_VALUE)
                .addComponent(jTextField1)
                .addComponent(jComboBox1, 0, 152, Short.MAX_VALUE)
                .addComponent(jTextField4)
                .addComponent(jTextField5, javax.swing.GroupLayout.Alignment.TRAILING))
            .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
            .addComponent(jPanel5, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
        );
        jPanel3Layout.setVerticalGroup(
            jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(jPanel3Layout.createSequentialGroup()
.addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                .addGroup(jPanel3Layout.createSequentialGroup()
.addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                        .addGroup(jPanel3Layout.createSequentialGroup()
                            .addGap(91, 91, 91)
                            .addComponent(jLabel6)
                            .addGap(18, 18, 18)
                            .addComponent(jLabel4)
                            .addGap(18, 18, 18)
.addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                                .addComponent(jLabel10)
                                .addComponent(jTextField3, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
                            .addGap(18, 18, 18)
.addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                                .addComponent(jLabel11)
                                .addComponent(jTextField4, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)))
                        .addGroup(jPanel3Layout.createSequentialGroup()
                            .addContainerGap()
.addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                                .addComponent(jLabel2)
                                .addComponent(jComboBox1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
                            .addGap(18, 18, 18)
.addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                                .addComponent(jLabel3)
                                .addComponent(jTextField1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
```

```
                        .addGap(18, 18, 18)
                        .addComponent(jComboBox2, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
                        .addGap(18, 18, 18)
                        .addComponent(jTextField2, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
                        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 64,
Short.MAX_VALUE)
                        .addComponent(jTextField5, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)))
                    .addGap(18, 18, 18)
.addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                        .addComponent(jTextField6, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
                        .addComponent(jLabel7))
                    .addGap(18, 18, 18)
.addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                        .addComponent(jTextField7, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
                        .addComponent(jLabel8)))
                .addGroup(jPanel3Layout.createSequentialGroup()
                    .addGap(69, 69, 69)
                    .addComponent(jPanel5, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)))
            .addContainerGap())
        );
        jPanel6.setBackground(new java.awt.Color(153, 204, 255));
        jTable1.setBackground(new java.awt.Color(255, 255, 204));
        jTable1.setModel(new javax.swing.table.DefaultTableModel(
            new Object [][] {
                {null, null, null, null, null, null, null},
                {null, null, null, null, null, null, null},
                {null, null, null, null, null, null, null},
                {null, null, null, null, null, null, null},
                {null, null, null, null, null, null, null},
                {null, null, null, null, null, null, null},
                {null, null, null, null, null, null, null},
                {null, null, null, null, null, null, null},
                {null, null, null, null, null, null, null},
                {null, null, null, null, null, null, null},
                {null, null, null, null, null, null, null},
                {null, null, null, null, null, null, null},
                {null, null, null, null, null, null, null},
                {null, null, null, null, null, null, null},
                {null, null, null, null, null, null, null},
                {null, null, null, null, null, null, null},
                {null, null, null, null, null, null, null},
                {null, null, null, null, null, null, null}
            },
            new String [] {
                "S_No", "P_ID", "V_ID", "Qty", "Price", "Amt_Paid", "Amt_Due"
            }
        ));
        jTable1.setGridColor(new java.awt.Color(153, 204, 255));
        jScrollPane1.setViewportView(jTable1);
        javax.swing.GroupLayout jPanel6Layout = new javax.swing.GroupLayout(jPanel6);
        jPanel6.setLayout(jPanel6Layout);
```

```
        jPanel6Layout.setHorizontalGroup(
            jPanel6Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(jPanel6Layout.createSequentialGroup()
                .addContainerGap()
                .addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED_SIZE, 429,
javax.swing.GroupLayout.PREFERRED_SIZE)
                .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
        );
        jPanel6Layout.setVerticalGroup(
            jPanel6Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(jPanel6Layout.createSequentialGroup()
                .addContainerGap()
                .addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED_SIZE, 298,
javax.swing.GroupLayout.PREFERRED_SIZE)
                .addContainerGap(21, Short.MAX_VALUE))
        );
        jLabel1.setBackground(new java.awt.Color(204, 204, 255));
        jLabel1.setFont(new java.awt.Font("Times New Roman", 1, 36));
        jLabel1.setForeground(new java.awt.Color(153, 0, 153));
        jLabel1.setText("MPJ Medical Agency");
        javax.swing.GroupLayout jPanel1Layout = new javax.swing.GroupLayout(jPanel1);
        jPanel1.setLayout(jPanel1Layout);
        jPanel1Layout.setHorizontalGroup(
            jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(jPanel1Layout.createSequentialGroup()
.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                    .addGroup(jPanel1Layout.createSequentialGroup()
                        .addContainerGap()
                        .addComponent(jPanel3, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
                        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                        .addComponent(jSeparator1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
                        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
                        .addComponent(jPanel6, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
                    .addGroup(jPanel1Layout.createSequentialGroup()
                        .addGap(28, 28, 28)
.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING, false)
                            .addComponent(jSeparator3, javax.swing.GroupLayout.Alignment.LEADING)
                            .addComponent(jLabel5, javax.swing.GroupLayout.Alignment.LEADING)))
                    .addGroup(jPanel1Layout.createSequentialGroup()
                        .addGap(311, 311, 311)
                        .addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED_SIZE, 336,
javax.swing.GroupLayout.PREFERRED_SIZE)))
                .addContainerGap(19, Short.MAX_VALUE))
            .addComponent(jSeparator2, javax.swing.GroupLayout.DEFAULT_SIZE, 948, Short.MAX_VALUE)
        );
        jPanel1Layout.setVerticalGroup(
            jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(jPanel1Layout.createSequentialGroup()
                .addGap(6, 6, 6)
                .addComponent(jLabel1)
                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
                .addComponent(jSeparator2, javax.swing.GroupLayout.PREFERRED_SIZE, 10,
javax.swing.GroupLayout.PREFERRED_SIZE)
```

```
            .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                .addGroup(jPanel1Layout.createSequentialGroup()
                    .addGap(100, 100, 100)
                    .addComponent(jSeparator1, javax.swing.GroupLayout.PREFERRED_SIZE, 10,
javax.swing.GroupLayout.PREFERRED_SIZE))
                .addGroup(jPanel1Layout.createSequentialGroup()
                    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                    .addComponent(jLabel5)
                    .addGap(8, 8, 8)
                    .addComponent(jSeparator3, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
                    .addGap(13, 13, 13)
.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                        .addComponent(jPanel6, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
                        .addComponent(jPanel3, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))))
            .addContainerGap(25, Short.MAX_VALUE))
        );
        javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());
        getContentPane().setLayout(layout);
        layout.setHorizontalGroup(
            layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addComponent(jPanel1, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
        );
        layout.setVerticalGroup(
            layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addComponent(jPanel1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
        );
        pack();
    }// </editor-fold>
    private void jButton3ActionPerformed(java.awt.event.ActionEvent evt) {
      Connection con;
PreparedStatement stm;
String s1="INSERT INTO Purchase (Product_ID, Vendor_ID, Quantity, Price, Payment_Paid, Payment_Due)
VALUES(?,?,?,?,?,?)";
try
{
Class.forName("sun.jdbc.odbc.JdbcOdbcDriver");
con=DriverManager.getConnection("jdbc:odbc:Sab", "", "");
stm=con.prepareStatement(s1);
stm.setString(1, jTextField1.getText());
stm.setString(2, jTextField2.getText());
stm.setString(3, jTextField3.getText());
stm.setString(4, jTextField4.getText());
stm.setString(5, jTextField6.getText());
stm.setString(6, jTextField7.getText());
stm.executeUpdate();
jTextField1.setText("");
jTextField2.setText("");
jTextField3.setText("");
jTextField4.setText("");
jTextField6.setText("");
```

```
jTextField7.setText("");
}
catch(Exception e)
{
System.out.println(e);
}
   }
   private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {
      Administrator ob=new Administrator();
      ob.setVisible(true);
      this.hide();
   }
   private void jTextField3ActionPerformed(java.awt.event.ActionEvent evt) {
   }

   private void formWindowOpened(java.awt.event.WindowEvent evt) {
      Connection con;
    Statement stm;
    ResultSet rs;
    String s1="SELECT * FROM Stock";
       ArrayList a=new ArrayList();
      int i=0,d=0;
      try
      {
      Class.forName("sun.jdbc.odbc.JdbcOdbcDriver");
      con=DriverManager.getConnection("jdbc:odbc:Sab","","");
      stm=con.createStatement();
      rs=stm.executeQuery(s1);
      while(rs.next())
      {
              a.add(rs.getString(2));
        }
       d=a.size();
       for(i=0;i<d;i++)
      {
      jComboBox1.addItem(a.get(i));
      }
      }
    catch(Exception exp)
    {
    }
      Connection con1;
    Statement stm1;
    ResultSet rs1;
    String s2="SELECT * FROM Vendor";
       ArrayList b=new ArrayList();
      int j=0,d1=0;
      try
      {
      Class.forName("sun.jdbc.odbc.JdbcOdbcDriver");
      con1=DriverManager.getConnection("jdbc:odbc:Sab","","");
      stm1=con1.createStatement();
      rs1=stm1.executeQuery(s2);
      while(rs1.next())
      {
              b.add(rs1.getString(2));
```

```
        }
        d1=b.size();
        for(j=0;j<d1;j++)
        {
        jComboBox2.addItem(b.get(j));
        }
        }
      catch(Exception exp)
      {
      }
    }
    private void jComboBox2ItemStateChanged(java.awt.event.ItemEvent evt) {
        Connection con;
      Statement stm;
      ResultSet rs;
      String s1="SELECT * FROM Vendor";
       String ss="";
        ArrayList b=new ArrayList();
        int i=0,d;
        d=jComboBox2.getSelectedIndex();
        try
        {
        Class.forName("sun.jdbc.odbc.JdbcOdbcDriver");
        con=DriverManager.getConnection("jdbc:odbc:Sab","","");
        stm=con.createStatement();
        rs=stm.executeQuery(s1);
        while(rs.next())
        {
                b.add(rs.getString(6));
          }
         jTextField2.setText(""+b.get(d));
        }
      catch(Exception exp)
      {
      }
    }
    private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {
Connection con1;
      Statement stm1;
      ResultSet rs;
      String s1="SELECT * FROM Purchase";
       ArrayList a=new ArrayList();
        ArrayList b=new ArrayList();
        ArrayList c=new ArrayList();
        ArrayList d=new ArrayList();
        ArrayList e=new ArrayList();
        ArrayList f=new ArrayList();
        ArrayList g=new ArrayList();
        int i=0;
        try
        {
        Class.forName("sun.jdbc.odbc.JdbcOdbcDriver");
        con1=DriverManager.getConnection("jdbc:odbc:Sab","","");
        stm1=con1.createStatement();
        rs=stm1.executeQuery(s1);
        while(rs.next())
```

```
      {
      a.add(rs.getString(1));
        b.add(rs.getString(2));
          c.add(rs.getString(3));
            d.add(rs.getString(4));
              e.add(rs.getString(5));
              f.add(rs.getString(6));
              g.add(rs.getString(7));
      }
      for(i=0;i<6;i++)
      {
    jTable1.setValueAt(b.get(i),i,0);
        jTable1.setValueAt(b.get(i),i,1);
     jTable1.setValueAt(c.get(i),i,2);
     jTable1.setValueAt(d.get(i),i,3);
     jTable1.setValueAt(e.get(i),i,4);
      jTable1.setValueAt(e.get(i),i,5);
       jTable1.setValueAt(e.get(i),i,6);
      }
      }
    catch(Exception exp)
    {
    }
  }
  private void jComboBox1ItemStateChanged(java.awt.event.ItemEvent evt) {
    Connection con;
    Statement stm;
    ResultSet rs;
    String s1="SELECT * FROM Stock";
     String ss="";
      ArrayList b=new ArrayList();
      int i=0,d;
      d=jComboBox1.getSelectedIndex();
      try
      {
      Class.forName("sun.jdbc.odbc.JdbcOdbcDriver");
      con=DriverManager.getConnection("jdbc:odbc:Sab","","");
      stm=con.createStatement();
      rs=stm.executeQuery(s1);
      while(rs.next())
      {
              b.add(rs.getString(3));
        }
       jTextField1.setText(""+b.get(d));
      }
    catch(Exception exp)
    {
    }
  }
  private void jButton4ActionPerformed(java.awt.event.ActionEvent evt) {
 Connection con;
PreparedStatement stm;
String s1="UPDATE Purchase SET Vendor_ID=?, Quantity=?, Price=?, Payment_Paid=?, Payment_Due=?
WHERE  Product_ID=? ";
try
{
```

```
Class.forName("sun.jdbc.odbc.JdbcOdbcDriver");
con=DriverManager.getConnection("jdbc:odbc:Sab", "", "");
stm=con.prepareStatement(s1);
stm.setString(1, jTextField2.getText());
stm.setString(2, jTextField3.getText());
stm.setString(3, jTextField4.getText());
stm.setString(4, jTextField6.getText());
stm.setString(5, jTextField7.getText());
stm.setString(6, jTextField1.getText());
stm.executeUpdate();
jTextField3.setText("");
jTextField4.setText("");
jTextField6.setText("");
jTextField7.setText("");
}
catch(Exception e)
{
System.out.println(e);
}
    }
    public static void main(String args[]) {
        java.awt.EventQueue.invokeLater(new Runnable() {
            public void run() {
                new Purchase().setVisible(true);
            }
        });
    }
    private javax.swing.JButton jButton1;
    private javax.swing.JButton jButton2;
    private javax.swing.JButton jButton3;
    private javax.swing.JButton jButton4;
    private javax.swing.JComboBox jComboBox1;
    private javax.swing.JComboBox jComboBox2;
    private javax.swing.JLabel jLabel1;
    private javax.swing.JLabel jLabel10;
    private javax.swing.JLabel jLabel11;
    private javax.swing.JLabel jLabel2;
    private javax.swing.JLabel jLabel3;
    private javax.swing.JLabel jLabel4;
    private javax.swing.JLabel jLabel5;
    private javax.swing.JLabel jLabel6;
    private javax.swing.JLabel jLabel7;
    private javax.swing.JLabel jLabel8;
    private javax.swing.JPanel jPanel1;
    private javax.swing.JPanel jPanel3;
    private javax.swing.JPanel jPanel5;
    private javax.swing.JPanel jPanel6;
    private javax.swing.JScrollPane jScrollPane1;
    private javax.swing.JSeparator jSeparator1;
    private javax.swing.JSeparator jSeparator2;
    private javax.swing.JSeparator jSeparator3;
    private javax.swing.JTable jTable1;
    private javax.swing.JTextField jTextField1;
    private javax.swing.JTextField jTextField2;
    private javax.swing.JTextField jTextField3;
    private javax.swing.JTextField jTextField4;
```

```
    private javax.swing.JTextField jTextField5;
    private javax.swing.JTextField jTextField6;
    private javax.swing.JTextField jTextField7;
    }
```

Sale

```
import java.sql.*;
import java.util.ArrayList;
public class Sale extends javax.swing.JFrame {
    public Sale() {
        initComponents();
    }
    private void initComponents() {
        jPanel1 = new javax.swing.JPanel();
        jSeparator1 = new javax.swing.JSeparator();
        jSeparator2 = new javax.swing.JSeparator();
        jLabel5 = new javax.swing.JLabel();
        jSeparator3 = new javax.swing.JSeparator();
        jPanel3 = new javax.swing.JPanel();
        jLabel2 = new javax.swing.JLabel();
        jLabel3 = new javax.swing.JLabel();
        jLabel6 = new javax.swing.JLabel();
        jLabel7 = new javax.swing.JLabel();
        jLabel8 = new javax.swing.JLabel();
        jLabel11 = new javax.swing.JLabel();
        jLabel10 = new javax.swing.JLabel();
        jLabel4 = new javax.swing.JLabel();
        jComboBox1 = new javax.swing.JComboBox();
        jTextField1 = new javax.swing.JTextField();
        jComboBox2 = new javax.swing.JComboBox();
        jTextField2 = new javax.swing.JTextField();
        jTextField3 = new javax.swing.JTextField();
        jTextField4 = new javax.swing.JTextField();
        jTextField5 = new javax.swing.JTextField();
        jTextField6 = new javax.swing.JTextField();
        jPanel5 = new javax.swing.JPanel();
        jButton3 = new javax.swing.JButton();
        jButton4 = new javax.swing.JButton();
        jButton1 = new javax.swing.JButton();
        jButton2 = new javax.swing.JButton();
        jTextField7 = new javax.swing.JTextField();
        jPanel6 = new javax.swing.JPanel();
        jScrollPane1 = new javax.swing.JScrollPane();
        jTable1 = new javax.swing.JTable();
        jLabel1 = new javax.swing.JLabel();
        setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);
        addWindowListener(new java.awt.event.WindowAdapter() {
            public void windowOpened(java.awt.event.WindowEvent evt) {
                formWindowOpened(evt);
            }
        });
        jPanel1.setBackground(new java.awt.Color(255, 204, 255));
        jSeparator1.setBackground(new java.awt.Color(0, 0, 102));
        jSeparator2.setForeground(new java.awt.Color(0, 0, 0));
```

```
jLabel5.setFont(new java.awt.Font("Century Schoolbook", 1, 24));
jLabel5.setForeground(new java.awt.Color(51, 0, 153));
jLabel5.setText("Sale Details");
jSeparator3.setForeground(new java.awt.Color(0, 0, 0));
jPanel3.setBackground(new java.awt.Color(204, 255, 204));
jLabel2.setFont(new java.awt.Font("Century Schoolbook", 1, 18));
jLabel2.setForeground(new java.awt.Color(51, 51, 255));
jLabel2.setText("Product Name");
jLabel3.setFont(new java.awt.Font("Century Schoolbook", 1, 18));
jLabel3.setForeground(new java.awt.Color(51, 51, 255));
jLabel3.setText("Product_Id");
jLabel6.setFont(new java.awt.Font("Century Schoolbook", 1, 18));
jLabel6.setForeground(new java.awt.Color(51, 51, 255));
jLabel6.setText("Customer Name");
jLabel7.setFont(new java.awt.Font("Century Schoolbook", 1, 18));
jLabel7.setForeground(new java.awt.Color(51, 51, 255));
jLabel7.setText("Payment Rec");
jLabel8.setFont(new java.awt.Font("Century Schoolbook", 1, 18));
jLabel8.setForeground(new java.awt.Color(51, 51, 255));
jLabel8.setText("Payment Due");
jLabel11.setFont(new java.awt.Font("Century Schoolbook", 1, 18));
jLabel11.setForeground(new java.awt.Color(51, 51, 255));
jLabel11.setText("Price");
jLabel10.setFont(new java.awt.Font("Century Schoolbook", 1, 18));
jLabel10.setForeground(new java.awt.Color(51, 51, 255));
jLabel10.setText("Qty");
jLabel4.setFont(new java.awt.Font("Century Schoolbook", 1, 18));
jLabel4.setForeground(new java.awt.Color(51, 51, 255));
jLabel4.setText("Customer_Id");
jComboBox1.setBackground(new java.awt.Color(255, 255, 204));
jComboBox1.addItemListener(new java.awt.event.ItemListener() {
    public void itemStateChanged(java.awt.event.ItemEvent evt) {
        jComboBox1ItemStateChanged(evt);
    }
});
jTextField1.setBackground(new java.awt.Color(255, 255, 204));
jComboBox2.setBackground(new java.awt.Color(255, 255, 204));
jComboBox2.addItemListener(new java.awt.event.ItemListener() {
    public void itemStateChanged(java.awt.event.ItemEvent evt) {
        jComboBox2ItemStateChanged(evt);
    }
});
jTextField2.setBackground(new java.awt.Color(255, 255, 204));
jTextField3.setBackground(new java.awt.Color(255, 255, 204));
jTextField3.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jTextField3ActionPerformed(evt);
    }
});
jTextField4.setBackground(new java.awt.Color(255, 255, 204));
jTextField5.setBackground(new java.awt.Color(255, 255, 204));
jTextField6.setBackground(new java.awt.Color(255, 255, 204));
jPanel5.setBackground(new java.awt.Color(204, 255, 204));
jButton3.setFont(new java.awt.Font("Century Schoolbook", 1, 18));
jButton3.setText("Add");
jButton3.addActionListener(new java.awt.event.ActionListener() {
```

```
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                jButton3ActionPerformed(evt);
            }
        });
        jButton4.setFont(new java.awt.Font("Century Schoolbook", 1, 18));
        jButton4.setText("Update");
        jButton4.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                jButton4ActionPerformed(evt);
            }
        });
        jButton1.setFont(new java.awt.Font("Century Schoolbook", 1, 18));
        jButton1.setText("Back");
        jButton1.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                jButton1ActionPerformed(evt);
            }
        });
        jButton2.setFont(new java.awt.Font("Century Schoolbook", 1, 18));
        jButton2.setText("View");
        jButton2.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                jButton2ActionPerformed(evt);
            }
        });
        javax.swing.GroupLayout jPanel5Layout = new javax.swing.GroupLayout(jPanel5);
        jPanel5.setLayout(jPanel5Layout);
        jPanel5Layout.setHorizontalGroup(
            jPanel5Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(jPanel5Layout.createSequentialGroup()
                .addContainerGap()
.addGroup(jPanel5Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING, false)
                    .addComponent(jButton2, javax.swing.GroupLayout.Alignment.LEADING,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE)
                    .addComponent(jButton1, javax.swing.GroupLayout.Alignment.LEADING,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE)
                    .addComponent(jButton3, javax.swing.GroupLayout.Alignment.LEADING,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE)
                    .addComponent(jButton4, javax.swing.GroupLayout.Alignment.LEADING,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE))
                .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
        );
        jPanel5Layout.setVerticalGroup(
            jPanel5Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(jPanel5Layout.createSequentialGroup()
                .addContainerGap()
                .addComponent(jButton3)
                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
                .addComponent(jButton4)
                .addGap(18, 18, 18)
                .addComponent(jButton2)
                .addGap(12, 12, 12)
```

```
            .addComponent(jButton1)
            .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
        );
        jTextField7.setBackground(new java.awt.Color(255, 255, 204));
        javax.swing.GroupLayout jPanel3Layout = new javax.swing.GroupLayout(jPanel3);
        jPanel3.setLayout(jPanel3Layout);
        jPanel3Layout.setHorizontalGroup(
            jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(jPanel3Layout.createSequentialGroup()
                .addContainerGap()
.addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                    .addComponent(jLabel2)
                    .addComponent(jLabel3)
                    .addComponent(jLabel6)
                    .addComponent(jLabel4)
                    .addComponent(jLabel10)
                    .addComponent(jLabel11)
                    .addComponent(jLabel7)
                    .addComponent(jLabel8))
                .addGap(27, 27, 27)
.addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)
                    .addComponent(jTextField7)
                    .addComponent(jTextField6, javax.swing.GroupLayout.Alignment.TRAILING)
                    .addComponent(jTextField3)
                    .addComponent(jComboBox2, 0, javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE)
                    .addComponent(jTextField2, javax.swing.GroupLayout.DEFAULT_SIZE, 156,
Short.MAX_VALUE)
                    .addComponent(jTextField1)
                    .addComponent(jComboBox1, 0, 152, Short.MAX_VALUE)
                    .addComponent(jTextField4)
                    .addComponent(jTextField5, javax.swing.GroupLayout.Alignment.TRAILING))
                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                .addComponent(jPanel5, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
                .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
        );
        jPanel3Layout.setVerticalGroup(
            jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(jPanel3Layout.createSequentialGroup()
.addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                    .addGroup(jPanel3Layout.createSequentialGroup()
.addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                            .addGroup(jPanel3Layout.createSequentialGroup()
                                .addGap(91, 91, 91)
                                .addComponent(jLabel6)
                                .addGap(18, 18, 18)
                                .addComponent(jLabel4)
                                .addGap(18, 18, 18)
.addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                                    .addComponent(jLabel10)
                                    .addComponent(jTextField3, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
                                .addGap(18, 18, 18)
.addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                                    .addComponent(jLabel11)
```

```
                        .addComponent(jTextField4, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)))
                    .addGroup(jPanel3Layout.createSequentialGroup()
                        .addContainerGap()
.addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                        .addComponent(jLabel2)
                        .addComponent(jComboBox1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
                        .addGap(18, 18, 18)
.addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                        .addComponent(jLabel3)
                        .addComponent(jTextField1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
                        .addGap(18, 18, 18)
                        .addComponent(jComboBox2, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
                        .addGap(18, 18, 18)
                        .addComponent(jTextField2, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
                        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 64,
Short.MAX_VALUE)
                        .addComponent(jTextField5, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)))
                    .addGap(18, 18, 18)
.addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                    .addComponent(jTextField6, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
                    .addComponent(jLabel7))
                    .addGap(18, 18, 18)
.addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                    .addComponent(jTextField7, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
                    .addComponent(jLabel8)))
                .addGroup(jPanel3Layout.createSequentialGroup()
                    .addGap(69, 69, 69)
                    .addComponent(jPanel5, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)))
            .addContainerGap())
        );
        jPanel6.setBackground(new java.awt.Color(204, 255, 204));
        jTable1.setBackground(new java.awt.Color(255, 255, 204));
        jTable1.setModel(new javax.swing.table.DefaultTableModel(
            new Object [][] {
                {null, null, null, null, null, null, null},
                {null, null, null, null, null, null, null},
                {null, null, null, null, null, null, null},
                {null, null, null, null, null, null, null},
                {null, null, null, null, null, null, null},
                {null, null, null, null, null, null, null},
                {null, null, null, null, null, null, null},
                {null, null, null, null, null, null, null},
                {null, null, null, null, null, null, null},
                {null, null, null, null, null, null, null},
                {null, null, null, null, null, null, null},
                {null, null, null, null, null, null, null},
                {null, null, null, null, null, null, null},
```

```
            {null, null, null, null, null, null, null},
            {null, null, null, null, null, null, null},
            {null, null, null, null, null, null, null},
            {null, null, null, null, null, null, null}
         },
         new String [] {
            "S_No", "P_ID", "C_ID", "Qty", "Price", "Amt_Rec", "Amt_Due"
         }
      ));
      jTable1.setGridColor(new java.awt.Color(153, 204, 255));
      jScrollPane1.setViewportView(jTable1);
      javax.swing.GroupLayout jPanel6Layout = new javax.swing.GroupLayout(jPanel6);
      jPanel6.setLayout(jPanel6Layout);
      jPanel6Layout.setHorizontalGroup(
         jPanel6Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
         .addGroup(jPanel6Layout.createSequentialGroup()
            .addContainerGap()
            .addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED_SIZE, 429,
javax.swing.GroupLayout.PREFERRED_SIZE)
            .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
      );
      jPanel6Layout.setVerticalGroup(
         jPanel6Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
         .addGroup(jPanel6Layout.createSequentialGroup()
            .addContainerGap()
            .addComponent(jScrollPane1, javax.swing.GroupLayout.DEFAULT_SIZE, 299,
Short.MAX_VALUE)
            .addGap(20, 20, 20))
      );
      jLabel1.setBackground(new java.awt.Color(204, 204, 255));
      jLabel1.setFont(new java.awt.Font("Times New Roman", 1, 36));
      jLabel1.setForeground(new java.awt.Color(153, 0, 153));
      jLabel1.setText("MPJ Medical Agency");
      javax.swing.GroupLayout jPanel1Layout = new javax.swing.GroupLayout(jPanel1);
      jPanel1.setLayout(jPanel1Layout);
      jPanel1Layout.setHorizontalGroup(
         jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
         .addGroup(jPanel1Layout.createSequentialGroup()
.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
               .addGroup(jPanel1Layout.createSequentialGroup()
                  .addContainerGap()
                  .addComponent(jPanel3, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
                  .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                  .addComponent(jPanel6, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
                  .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
                  .addComponent(jSeparator1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
                  .addGap(674, 674, 674))
               .addGroup(jPanel1Layout.createSequentialGroup()
                  .addGap(24, 24, 24)
.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING, false)
                     .addComponent(jSeparator3, javax.swing.GroupLayout.Alignment.LEADING)
                     .addComponent(jLabel5, javax.swing.GroupLayout.Alignment.LEADING)))
```

```
                .addGroup(jPanel1Layout.createSequentialGroup()
                    .addGap(348, 348, 348)
                    .addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED_SIZE, 336,
javax.swing.GroupLayout.PREFERRED_SIZE)))
                .addContainerGap())
            .addComponent(jSeparator2, javax.swing.GroupLayout.DEFAULT_SIZE, 1623,
Short.MAX_VALUE)
        );
        jPanel1Layout.setVerticalGroup(
            jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(jPanel1Layout.createSequentialGroup()
                .addContainerGap()
                .addComponent(jLabel1)
                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                .addComponent(jSeparator2, javax.swing.GroupLayout.PREFERRED_SIZE, 4,
javax.swing.GroupLayout.PREFERRED_SIZE)
                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                    .addGroup(jPanel1Layout.createSequentialGroup()
                        .addGap(117, 117, 117)
                        .addComponent(jSeparator1, javax.swing.GroupLayout.PREFERRED_SIZE, 10,
javax.swing.GroupLayout.PREFERRED_SIZE))
                    .addGroup(jPanel1Layout.createSequentialGroup()
                        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                        .addComponent(jLabel5)
                        .addGap(8, 8, 8)
                        .addComponent(jSeparator3, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
                        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                            .addComponent(jPanel6, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
                            .addComponent(jPanel3, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))))
                .addContainerGap(26, javax.swing.GroupLayout.PREFERRED_SIZE))
        );
        javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());
        getContentPane().setLayout(layout);
        layout.setHorizontalGroup(
            layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addComponent(jPanel1, javax.swing.GroupLayout.PREFERRED_SIZE, 965,
javax.swing.GroupLayout.PREFERRED_SIZE)
        );
        layout.setVerticalGroup(
            layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addComponent(jPanel1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
        );
        pack();
    }// </editor-fold>
    private void jComboBox1ItemStateChanged(java.awt.event.ItemEvent evt) {
        Connection con;
        Statement stm;
        ResultSet rs;
        String s1="SELECT * FROM Stock";
        String ss="";
```

```
        ArrayList b=new ArrayList();
        int i=0,d;
        d=jComboBox1.getSelectedIndex();
        try {
            Class.forName("sun.jdbc.odbc.JdbcOdbcDriver");
            con=DriverManager.getConnection("jdbc:odbc:Sab","","");
            stm=con.createStatement();
            rs=stm.executeQuery(s1);
            while(rs.next()) {
                b.add(rs.getString(3));
            }
            jTextField1.setText(""+b.get(d));
        } catch(Exception exp) {
        }
    }
    private void jComboBox2ItemStateChanged(java.awt.event.ItemEvent evt) {
        Connection con;
        Statement stm;
        ResultSet rs;
        String s1="SELECT * FROM Customer";
        String ss="";
        ArrayList b=new ArrayList();
        int i=0,d;
        d=jComboBox2.getSelectedIndex();
        try {
            Class.forName("sun.jdbc.odbc.JdbcOdbcDriver");
            con=DriverManager.getConnection("jdbc:odbc:Sab","","");
            stm=con.createStatement();
            rs=stm.executeQuery(s1);
            while(rs.next()) {
                b.add(rs.getString(5));
            }
            jTextField2.setText(""+b.get(d));
        } catch(Exception exp) {
        }
    }
    private void jTextField3ActionPerformed(java.awt.event.ActionEvent evt) {
    }
    private void jButton3ActionPerformed(java.awt.event.ActionEvent evt) {
        Connection con;
        PreparedStatement stm;
        String s1="INSERT INTO Sale (Product_ID, Customer_ID, Quantity, Price, Payment_Rec,
Payment_Due) VALUES(?,?,?,?,?,?)";
        try {
            Class.forName("sun.jdbc.odbc.JdbcOdbcDriver");
            con=DriverManager.getConnection("jdbc:odbc:Sab", "", "");
            stm=con.prepareStatement(s1);
            stm.setString(1, jTextField1.getText());
            stm.setString(2, jTextField2.getText());
            stm.setString(3, jTextField3.getText());
            stm.setString(4, jTextField4.getText());
            stm.setString(5, jTextField6.getText());
            stm.setString(6, jTextField7.getText());
            stm.executeUpdate();
            jTextField1.setText("");
            jTextField2.setText("");
```

```
            jTextField3.setText("");
            jTextField4.setText("");
            jTextField6.setText("");
            jTextField7.setText("");
        }
        catch(Exception e) {
            System.out.println(e);
        }
    }
    private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {
        Administrator ob=new Administrator();
        ob.setVisible(true);
        this.hide();
    }
    private void formWindowOpened(java.awt.event.WindowEvent evt) {
Connection con;
      Statement stm;
      ResultSet rs;
      String s1="SELECT * FROM Stock";
         ArrayList a=new ArrayList();
      int i=0,d=0;
      try
      {
      Class.forName("sun.jdbc.odbc.JdbcOdbcDriver");
      con=DriverManager.getConnection("jdbc:odbc:Sab","","");
      stm=con.createStatement();
      rs=stm.executeQuery(s1);
      while(rs.next())
      {
              a.add(rs.getString(2));
        }
       d=a.size();
       for(i=0;i<d;i++)
      {
      jComboBox1.addItem(a.get(i));
      }
      }
      catch(Exception exp)
      {
      }
        Connection con1;
      Statement stm1;
      ResultSet rs1;

      String s2="SELECT * FROM Customer";
         ArrayList b=new ArrayList();
      int j=0,d1=0;
      try
      {
      Class.forName("sun.jdbc.odbc.JdbcOdbcDriver");
      con1=DriverManager.getConnection("jdbc:odbc:Sab","","");
      stm1=con1.createStatement();
      rs1=stm1.executeQuery(s2);
      while(rs1.next())
      {
              b.add(rs1.getString(2));
```

```
        }
        d1=b.size();
        for(j=0;j<d1;j++)
        {
        jComboBox2.addItem(b.get(j));
        }
        }
      catch(Exception exp)
      {
      }    }
   private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {
  Connection con1;
       Statement stm1;
       ResultSet rs;
       String s1="SELECT * FROM Sale";
       ArrayList a=new ArrayList();
       ArrayList b=new ArrayList();
       ArrayList c=new ArrayList();
       ArrayList d=new ArrayList();
       ArrayList e=new ArrayList();
       ArrayList f=new ArrayList();
       ArrayList g=new ArrayList();
       int i=0;
       try {
          Class.forName("sun.jdbc.odbc.JdbcOdbcDriver");
          con1=DriverManager.getConnection("jdbc:odbc:Sab","","");
          stm1=con1.createStatement();
          rs=stm1.executeQuery(s1);
          while(rs.next()) {
             a.add(rs.getString(1));
             b.add(rs.getString(2));
             c.add(rs.getString(3));
             d.add(rs.getString(4));
             e.add(rs.getString(5));
             f.add(rs.getString(6));
             g.add(rs.getString(7));
          }
          for(i=0;i<6;i++) {
             jTable1.setValueAt(b.get(i),i,0);
             jTable1.setValueAt(b.get(i),i,1);
             jTable1.setValueAt(c.get(i),i,2);
             jTable1.setValueAt(d.get(i),i,3);
             jTable1.setValueAt(e.get(i),i,4);
             jTable1.setValueAt(e.get(i),i,5);
             jTable1.setValueAt(e.get(i),i,6);
          }
       } catch(Exception exp) {
       }           }
    private void jButton4ActionPerformed(java.awt.event.ActionEvent evt) {
Connection con;
PreparedStatement stm;
String s1="UPDATE Sale SET Customer_ID=?, Quantity=?, Price=?, Payment_Rec=?, Payment_Due=?
WHERE  Product_ID=? ";
try {
Class.forName("sun.jdbc.odbc.JdbcOdbcDriver");
con=DriverManager.getConnection("jdbc:odbc:Sab", "", "");
```

```
stm=con.prepareStatement(s1);
stm.setString(1, jTextField2.getText());
stm.setString(2, jTextField3.getText());
stm.setString(3, jTextField4.getText());
stm.setString(4, jTextField6.getText());
stm.setString(5, jTextField7.getText());
stm.setString(6, jTextField1.getText());
stm.executeUpdate();
jTextField3.setText("");
jTextField4.setText("");
jTextField6.setText("");
jTextField7.setText("");
}
catch(Exception e)
{
System.out.println(e);
}           }
    public static void main(String args[]) {
        java.awt.EventQueue.invokeLater(new Runnable() {
            public void run() {
                new Sale().setVisible(true);
            }
        });    }
    private javax.swing.JButton jButton1;
    private javax.swing.JButton jButton2;
    private javax.swing.JButton jButton3;
    private javax.swing.JButton jButton4;
    private javax.swing.JComboBox jComboBox1;
    private javax.swing.JComboBox jComboBox2;
    private javax.swing.JLabel jLabel1;
    private javax.swing.JLabel jLabel10;
    private javax.swing.JLabel jLabel11;
    private javax.swing.JLabel jLabel2;
    private javax.swing.JLabel jLabel3;
    private javax.swing.JLabel jLabel4;
    private javax.swing.JLabel jLabel5;
    private javax.swing.JLabel jLabel6;
    private javax.swing.JLabel jLabel7;
    private javax.swing.JLabel jLabel8;
    private javax.swing.JPanel jPanel1;
    private javax.swing.JPanel jPanel3;
    private javax.swing.JPanel jPanel5;
    private javax.swing.JPanel jPanel6;
    private javax.swing.JScrollPane jScrollPane1;
    private javax.swing.JSeparator jSeparator1;
    private javax.swing.JSeparator jSeparator2;
    private javax.swing.JSeparator jSeparator3;
    private javax.swing.JTable jTable1;
    private javax.swing.JTextField jTextField1;
    private javax.swing.JTextField jTextField2;
    private javax.swing.JTextField jTextField3;
    private javax.swing.JTextField jTextField4;
    private javax.swing.JTextField jTextField5;
    private javax.swing.JTextField jTextField6;
    private javax.swing.JTextField jTextField7;
}
```

9.4 Principles of Java

Java is developed by Sun Microsystems .The product has the features like interacting with user and distributing application. Java is an object-oriented programming language with a built-in application programming interface (API) that can handle graphics and user interfaces and that can be used to create applications or applets. Because of its rich set of API's, similar to Macintosh and Windows, and its platform independence, Java can also be thought of as a platform in itself. Java also has standard libraries for doing mathematics.

Much of the syntax of Java is the same as C and C++. One major difference is that Java does not have pointers. However, the biggest difference is that you must write object oriented code in Java. Procedural pieces of code can only be embedded in objects. In the following we assume that the reader has some familiarity with a programming language. In particular, some familiarity with the syntax of C/C++ is useful.

In Java we distinguish between applications, which are programs that perform the same functions as those written in other programming languages, and applets, which are programs that can be embedded in a Web page and accessed over the Internet. Our initial focus will be on writing applications. When a program is compiled, a byte code is produced that can be read and executed by any platform that can run Java.

Java (with a capital J) is a high-level, third generation programming language, like C, FORTRAN, Smalltalk, Perl, and many others. You can use Java to write computer applications that crunch numbers, process words, play games, store data or do any of the thousands of other things computer software can do.

Compared to other programming languages, Java is most similar to C. However although Java shares much of C's syntax, it is not C. Knowing how to program in C or, better yet, C++, will certainly help you to learn Java more quickly, but you don't need to know C to learn Java. Unlike C++ Java is not a superset of C. A Java compiler won't compile C code, and most large C programs need to be changed substantially before they can become Java programs.

Java solves this problem by severely restricting what an applet can do. A Java applet cannot write to your hard disk without your permission. It cannot write to arbitrary addresses in memory and thereby introduce a virus into your computer. It should not crash your system.

Features of Java:-

- ✓ Java is Object-Oriented
- ✓ Java is Platform Independent
- ✓ Java is Safe
- ✓ Java is High Performance
- ✓ Java is Multi-Threaded
- ✓ Java is Dynamic(ly linked)
- ✓ Java is Garbage Collected

JAVA IS SIMPLE:

Java was designed to make it much easier to write bug free code. According to Sun's Bill Joy, shipping C code has, on average, one bug per 55 lines of code. The most important part of helping programmers write bug-free code is keeping the language simple.

Java has the bare bones functionality needed to implement its rich feature set. It does not add lots of syntactic sugar or unnecessary features. Despite its simplicity Java has considerably more functionality than C, primarily because of the large class library.

Because Java is simple, it is easy to read and write. Obfuscated Java isn't nearly as common as obfuscated C. There aren't a lot of special cases or tricks that will confuse beginners.

About half of the bugs in C and C++ programs are related to memory allocation and deallocation. Therefore the second important addition Java makes to providing bug-free code is automatic memory allocation and deallocation. The C library memory allocation functions malloc () and free () are gone as are C++'s destructors.

Java is an excellent teaching language, and an excellent choice with which to learn programming. The language is small so it's easy to become fluent. The language is interpreted so the compile-run-link cycle is much shorter. The runtime environment provides automatic memory allocation and garbage collection so there's less for the programmer to think about. Java is object-oriented unlike Basic so the beginning programmer doesn't have to unlearn bad programming habits when moving into real world projects. Finally, it's very difficult (if not quite impossible) to write a Java program that will crash your system, something that you can't say about any other language.

JAVA IS OBJECT-ORIENTED:

Object oriented programming is the catch phrase of computer programming in the 1990's. Although object oriented programming has been around in one form or another since the Simula language was invented in the 1960's, it's really begun to take hold in modern GUI environments like Windows, Motif and the Mac. In object-oriented programs data is represented by objects. Objects have two sections, fields (instance variables) and methods. Fields tell you what an object is. Methods tell you what an object does. These fields and methods are closely tied to the object's real world characteristics and behavior. When a program is run messages are passed back and forth between objects. When an object receives a message it responds accordingly as defined by its methods.

Object oriented programming is alleged to have a number of advantages including:

- ✓ Simpler, easier to read programs
- ✓ More efficient reuse of code
- ✓ Faster time to market
- ✓ More robust, error-free code

10. CODE EFFICENCY

It tells us about the efficiency of code written.We can write code in various languages such as C, C++, Java, Asp.net and many more. The language preferred to accomplished this project is java 1.6.Java provide us various options and components and tool , which we can drag and drop, using these tools helps in minimizing coding for each component, Dead Code and infinite loops are removed from project where it is necessary. Java provides way for efficient coding and designing. Steps that must be taken to increase the efficiency of the code:

The dead code must be eliminated i.e., variables had been declared but were not being used have to be removed, hence minimizing memory wastage.

Frequently used statements have been modularized and put into functions that can be called as and when required. Hence reducing the problem of excessive code.
Then all the calculations are taking place at compile time hence removing the problem of linker errors.

Classes have been created for variables & functions that are used throughout the software hence preventing wastage of memory.

Clear documentation should be done of the whole project so the project is even clearly understandable to non technical person. Though don’t help in increasing efficiency but increases the understandability of the project, which can help to debug program easily thus it indirectly helps in increasing efficiency.

11. CODE OPTIMAIZATION

The code optimization tell us how efficiently we have written the code without Using much space and time.The code should be error free and if some error persists Should be minimum. Its very important critiera which should be followed in writing Code for the projects. There are various logics for writing the same code in a project The coding followed should be an optimized oneand shoul be free from errors. Optimization of code is done by performing the following operations:

11.1 Removal of Dead Code

Dead code is a code, the removal of which does not effect either the execution of the program & output of the program. All the dead code has been removed from our project which was earlier implemented to test various conditions by putting various variables at different places where needed in the project.

11.2 Declaring Global Variables & Functions

Global variables & functions can be accessed throughout the whole project so it is better to declare them in a module which can be accessed by all the forms of the project, thus it helps in increasing efficiency of program.

Declaring Local Variables

The variables which are only accessed in a specific module are declared as a local so that whenever we exit from that function the memory used by them get freed this helps in saving the memory space, thus increasing efficiency.

Modularizing Different Functions

The functions are being modularized so that they are not being written many times in the program and can just be called from just with in the functions or events where they are being needed. This in turn helps in saving memory space and thus increases the efficiency.

12. VALIDATION CHECK

To make the software more users friendly and to prevent the user from entering garbage values, the following constraints and event have been applied on the edit boxes, combo boxes and buttons.

Many places, instead of radio buttons, text boxes and list boxes have been used to prevent the user from entering garbage values.

Then most of next button are disabled till the time all the data has not been entered in the fields. This prevents the user from accessing the screen without leaving the current one incomplete.

Different error message are displayed if wrong data is, to allow the user to be aware of the mistake they have committed intentionally or unintentionally. Then the user can use the Home Button to move to previous screen to edit values.

13. Implementation

System implementation is the stage when the user has thoroughly tested the system and approves all the features provided by the system. The various tests are performed and the system is approved only after all the requirements are met and the user is satisfied.

The new system may be totally new; replacing an existing manual or automated system, or it may be a major modification to an existing system. In either case, proper implementation is essential to provide a reliable system to meet organizational requirements. Successful implementation may not guarantee improvement in the organization using the new system (that is a design question), but improper will prevent it.

Implementation is the process of having systems personnel check out and put new equipment into use, train users, install the new application and construct any files of data needed to use it. This phase is less creative than system design. Depending on the size of the organization that will be involved in using the application and the risk involved in its use, systems developers may choose to test the operation in only one area of the firm with only one or two persons. Sometimes, they will run both old and new system in parallel way to com-pare the results. In still other situations, system developers stop using the old system one day and start using the new one the next.

Implementation uses the design document to produce code. Demonstration that the program satisfies its specifications validates the code. Typically, sample runs of the program demonstrating the behavior for expected data values and boundary values are required.

Top-down implementation:

Top down implementation begins with the user-invoked module and works toward the modules that do not call any other modules. The implementation may proceed depth-first or breadth-first.

Bottom- Up implementation:

Implementation begins with modules that do not call any other modules and works toward the main program. Test harness is used to test individual modules. The main module constitutes the final test harness.

14. Evaluation of the Project

The projects complete with no of master tables as well as transaction tables and a number of screens and reports. Enhancements can be done if required but the project is yet to be implemented. Documentation has being prepared. Data has been uploaded. The project has accomplished all the stipulations, which a competent and proficient project intents to fulfill. Following acceptance criteria has fulfilled.

1. User friendly
2. Modularity
3. Transparency
4. Security

15. Security

One might think that there is a little reason to be concerned about security in an intranet. After all, by definition an intranet is internal to ones' organization; outsider can not access it. There are strong arguments for the position that an intranet should be completely open to its users, with little or no security. One might not have considered ones' intranet on any other light.

On the other hand, implementing some simple, built-in security measures in ones' intranet can allow one to provide resources one might not have considered possible in such context. For example, one can give access to some Web Pages to some people without them available to oner entire customer base, with several kinds of authentication.

Intranet security is, then, a multifaceted issue, with both opportunities and dangers, especially if ones' network is part of the Intranet. Multi-Level security is proposed for the system at each operating level. The different level of are as follows:

Application level security

The security shall be achieved by providing user id and password. Whenever user gets login before it login id and password should be verified.

Database level security

This level of security is given by the RDBMS through database user name and password. There must be proper access rights and privileges to tables, views and procedures whatever used. Each data entity will have a set of authorized users for data entry and modifications.

Operating system level security

At this level, security is provided by the operating system. Separate user names and passwords are to be given to different users.

Network level security

In web applications we should have concentrate over on this level of security. In this level data is transmitted over network. So data should be safe while transmission for this we must prevent data access from unauthorized access. For this we must have compact user authentication.

Future Recommendations

In order to make a success and to realize the benefits of the product, it becomes necessary to provide it the necessary inputs. The only inputs required are the data that is collected and complaints etc. So the more authentic and exhaustive this information is, the more reliable becomes the scope of the system. And this is something that is out of scope of I.T. So it is recommended that at every agent site we have a reliable means of collecting the data and feeding it into the system. The data should be as accurate as possible and should be updated timely. These efforts have to be made at the level of the top Management to constantly monitor the regularity and authenticity of the data collection and data entry processes.