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CLIENT SOLUTION

(EMS)

A Report for the Final evaluation of Project 2

Submitted by

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**SCHOOL OF COMPUTING AND SCIENCE AND
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ABSTRACT

In this of growing technologies everythings has been computerized.with large number of work opportunities the human workforce has increased. Thus there is a need of system which can handle the data of such a large number of employees in an organization.This project simplifies

the task of maintain records because of its user friendly nature.

The “CLIENT SOLUTION ” has been developed to override the problem prevailing in the practicing manual system. This software supported to eliminate the and in some cases reduce the hardship face by this existing system. Moreover this system is design for the perticular need of the company/firm to carry out the operations in a smooth and effective manner.

This application is reduced as much as possible to avoid errors while entering the data. It also provide error message while entering invalid data. No formal knowledge is needed for the user to use the system. Thus by this all it proves it is user-friendly.

1.

INTRODUCTION

You're Client solution objective is to provide a system which manages the employee details, the payroll activities done in a company depending upon the employee's attendance and its calculation is very huge. The users will consume less amount of time through computerized system rather than working manually. The system will take care of all the payroll activities like managing each employee's attendance, number of leaves taken by that particular employee and calculation of salary in very quick manner

Data storage is easier. Paper work will be reduced and the company staffs spend more time on monitoring the progress. The system is user friendly and easy to use. All the important data's will be stored in a database and it avoids miscalculation. Admin has the authority to add employee details. And he also has the right to edit or delete employee information to/from the list. Admin provides unique username and password for each employee through which he can login and all the information is stored in database.

1.1 Overall description

- I. **Client sol** is a distributed application, developed to maintain the details of **employees** working in any organization.

- II. It maintains the information about the personal details of their **employees**, also the details about the **payroll system** which enable to generate the payslip.
- III. An **Client sol** consists of crucial work-related and important personal information about an **employee**.
- IV. In a nutshell, it is an online inventory of all employees of an organization.
- V. Employees are the strength of any organization, and it is more so in case of a growing business.

1.2 Purpose

Client solutions are designed to better measure, analyze and **manage employees'** working hours and deploy human resources more effectively. **Client solution** is open to admins, HR team, Managers, and regular **employees**. The main **objective** of the **Java Project on Client solution** is to **manage** the details of Salary, Leaves, **Employee**, Experience, Informations. It manages all the information about Salary, Login, Informations, Salary.

1.3 Motivations and scope

The scope of this project will be limited to the following:

- Employee profiles: Employees will have access to their personal profiles and will be able to edit their details.
- Electronic leave application: Complete elimination of paperwork in leave management by enabling an employee apply for leave as well as check their leave status through the system. This will also enable the HR manager to accept/reject leave application through the system.
- Project Management: Assign tasks and projects to employees, assign a project team and keep track of the progress.
- Report generation: The HR manager will be able to generate timely reports in order to monitor employees and this can be used for performance appraisals. The reports will have all the information of an employee from educational background, trainings attended, projects done as well as technical skills

2.Literature Survey

An organization or company with a very large number of employees manages a greater volume of data. This activity can be daunting without a more sophisticated tool to store and retrieve data. The various levels of sophistication can be examined by looking at the evolutionary aspects of HR technology. These aspects can be characterized into four stages of development: Paper-based systems, early personal computer (PC) technology, electronic databases.

The benefits of automation are becoming widely known to HR and other areas of the business.

The focus has shifted to automating as many transactions as possible to achieve effectiveness and efficiencies.

There are a number of software development methodology each of which are adopted based on a number of factors relating to the project e.g. Time, cost, incorporation of requirement changes during the development process, system complexity, communication between customers and developers, software criticality, size of the development team. These generic models are not definitive descriptions of software processes. Rather, they are abstractions of the process that can be used to explain different approaches to software development. You can think of them as process frameworks that may be extended and adapted to create more specific software engineering processes.

3.Problem Statement

Manual handling of employee information poses a number of challenges. This is evident in procedures such as leave management where an employee is required to fill in a form which may take several weeks or months to be approved. The use of paper work in handling some of these processes could lead to human error, papers may end up in the wrong hands and not forgetting the fact that this is time consuming. A number of current systems lack employee self-service meaning employees are not able to access and manage their personal information directly without having to go through their HR departments or their managers. Another challenge is that multi-national companies will have all the employee information stored at the headquarters of the company making it difficult to access the employee information from remote places when needed at short notice.

The aforementioned problems can be tackled by designing and implementing a web based HR management system. This system will maintain employee information in a database by fully privacy and authority access. The project is aimed at setting up employee information system about the status of the employee, the educational background and the work experience in order to help monitor the performance and achievements of the employee through a password protected system.

4.EXISTING SYSTEM

The problem definition for designing the system is to maintain data of employee, to make easy controlling employees, to divide jobs and access control of employees, to use technology for accurate and timely processing by fully privacy and full authority access. The objective of the project is to set up employee information system about status of employee and attendance of employee and monthly salary process and delivery. To eliminate or reduce as much as possible the hardships of existing system and avoid errors while entering data. . In existing method employee management are employee record are maintaining in records. It's a manual process. Complicated to search the employee salary

Disadvantages:

- Needs for extra manual effort.
- In existing system is standalone process normal employee cannot track their employee status.
- Less Accuracy Danger of losing some files.
- Certain required report is not available Time consuming process.

given task and cover the basic requirements. The Interface of the program should be user-friendly, and the program should be as easy for use as it is possible. Both controls and forms

should logically and functionally be related within the program and fully respond to the structure of the database

5.PROPOSED MODEL

This chapter builds on the work done in the Analysis Chapter and gives documentation for the Design of the Client solution. The Client solution is modelled in terms of objects and classes and their interactions with each other. Explanation of the proposed system is done as well structure of the Entity Relationship Diagram (ERD). Design of the User Interface is also discussed. The proposed system is designed to eliminate all the drawbacks of the existing employee management software. The system shall be responsible for maintaining information about employees, thus their personal profile. The system shall incorporate leave management all the way from application to acceptance/rejection of leave requests as well as all employee projects with close monitoring of the projects from creation to completion and trainings to assist in monitoring active and inactive employees. The main features to be added include:

- Employee profiles
- Leave management
- Task management
- Notifications
- Employee Self-Service (ESS)

Consistent- The website should have a similar look and feel on every page. Every page should

have the same header/logo, heading style, fonts, navigations etc. Efficient and easy to maintain-

This refers to the fact that there is need to separate content from layout, so that you can easily change your page design without editing every page on the site

Easy to navigate and use- Users should not have a hard time trying to navigate the site.

Navigation links should be consistent and clearly labelled. All navigation links should also be working properly and should point to the intended page/site.

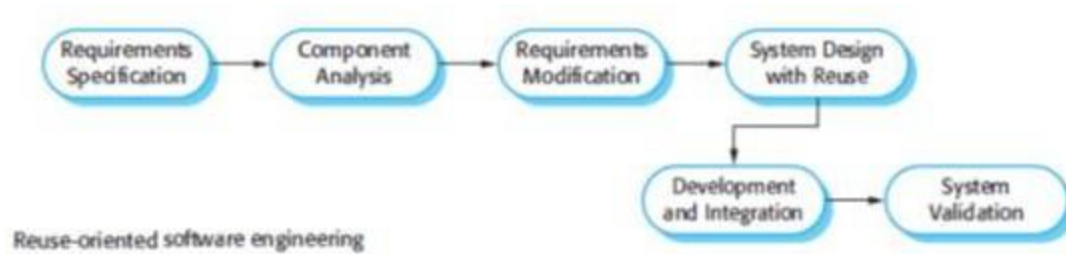
Visually appealing- The use of color, text, fonts and graphics should be carefully considered and used to ensure that the site is visually appealing to its visitors.

5.1 Features:

- Portability
- Compatibility
- Secure
- User Friendly
- Generosity
- Runtime Compactness and Speed

5.2 Reuse-oriented methodology:

This approach is based on the existence of a significant number of reusable components. The system development process focuses on integrating these components into a system rather than developing them from scratch.



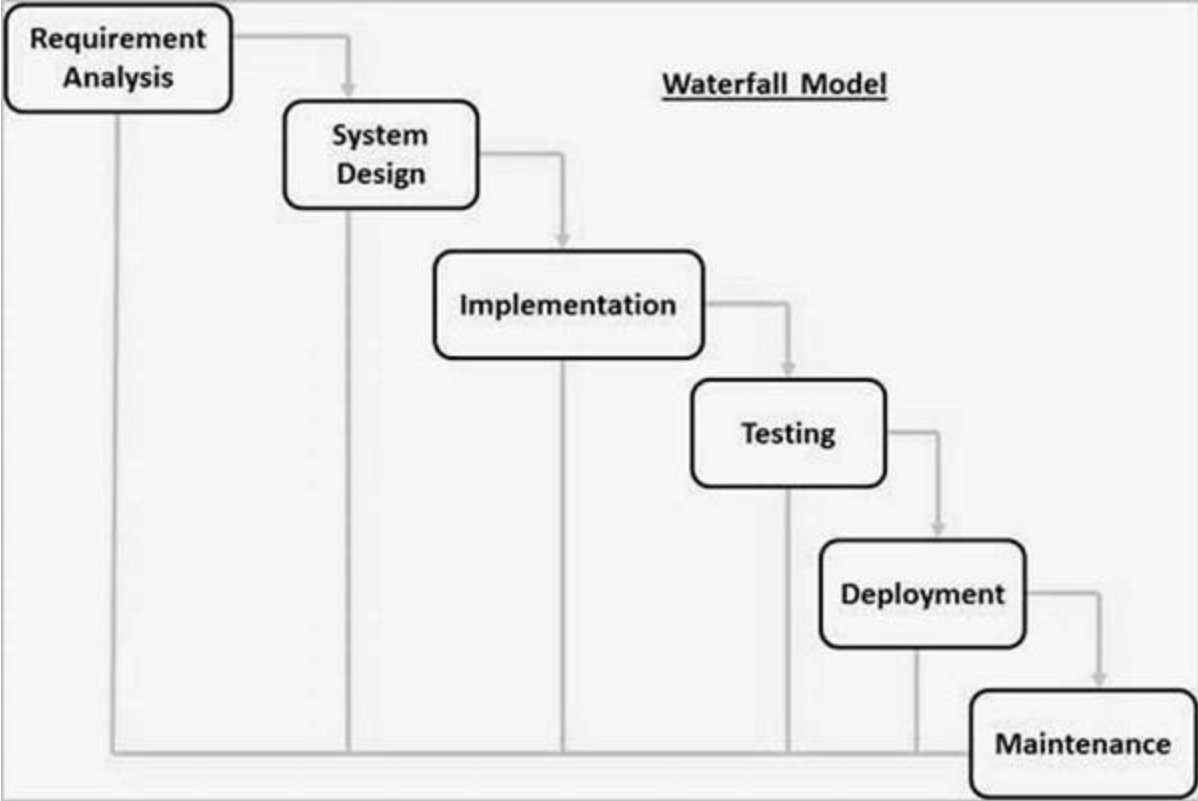
6. SOFTWARE METHODOLOGIES:

A software development methodology is a collection of procedures, techniques, tools, and documentation aids which will help the systems developers in their efforts to implement a new information system.

There are a number of software development methodology each of which are adopted based on a number of factors relating to the project e.g. Time, cost, incorporation of requirement changes during the development process, system complexity, communication between customers and developers, software criticality, size of the development team. These generic models are not definitive descriptions of software processes. Rather, they are abstractions of the process that can be used to explain different approaches to software development. You can think of them as process frameworks that may be extended and adapted to create more specific software engineering processes. Below are a selected number of models:

6.1 The Waterfall Model

The waterfall model is a sequential design process, often used in software development processes. It takes the fundamental process activities of specification, development, validation, and evolution and represents them as separate process phases such as requirements specification, software design, implementation, testing, and so on.



6.2 Incremental Model:

This approach interleaves the activities of specification, development, and validation. The system is developed as a series of versions (increments), with each version adding functionality to the previous version.

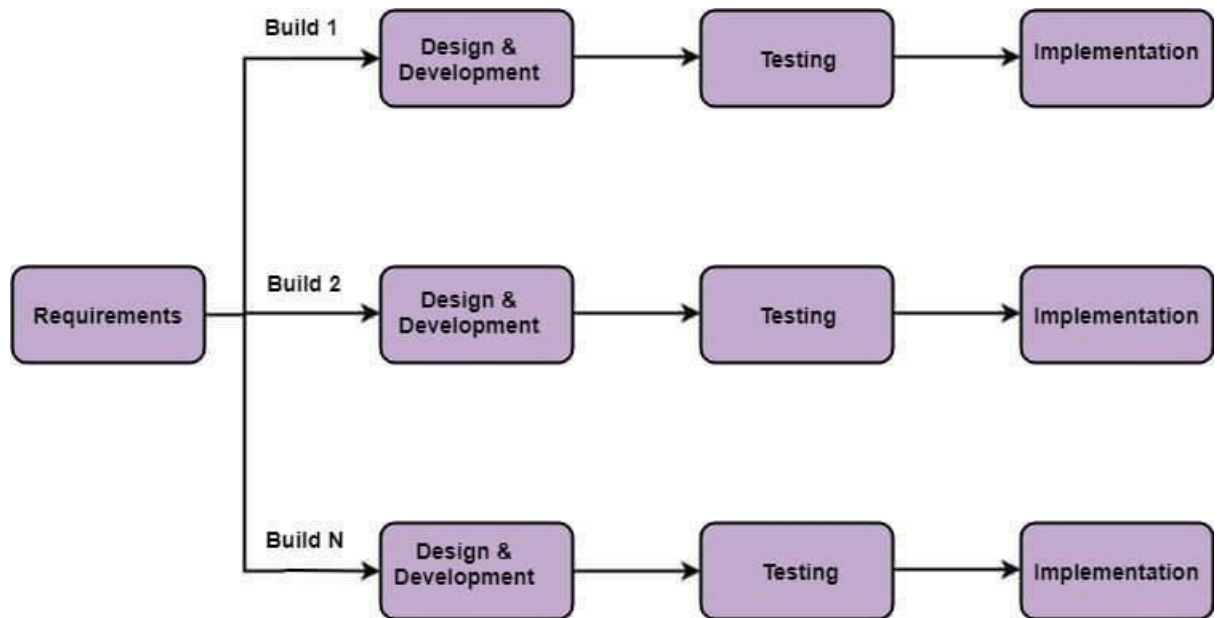
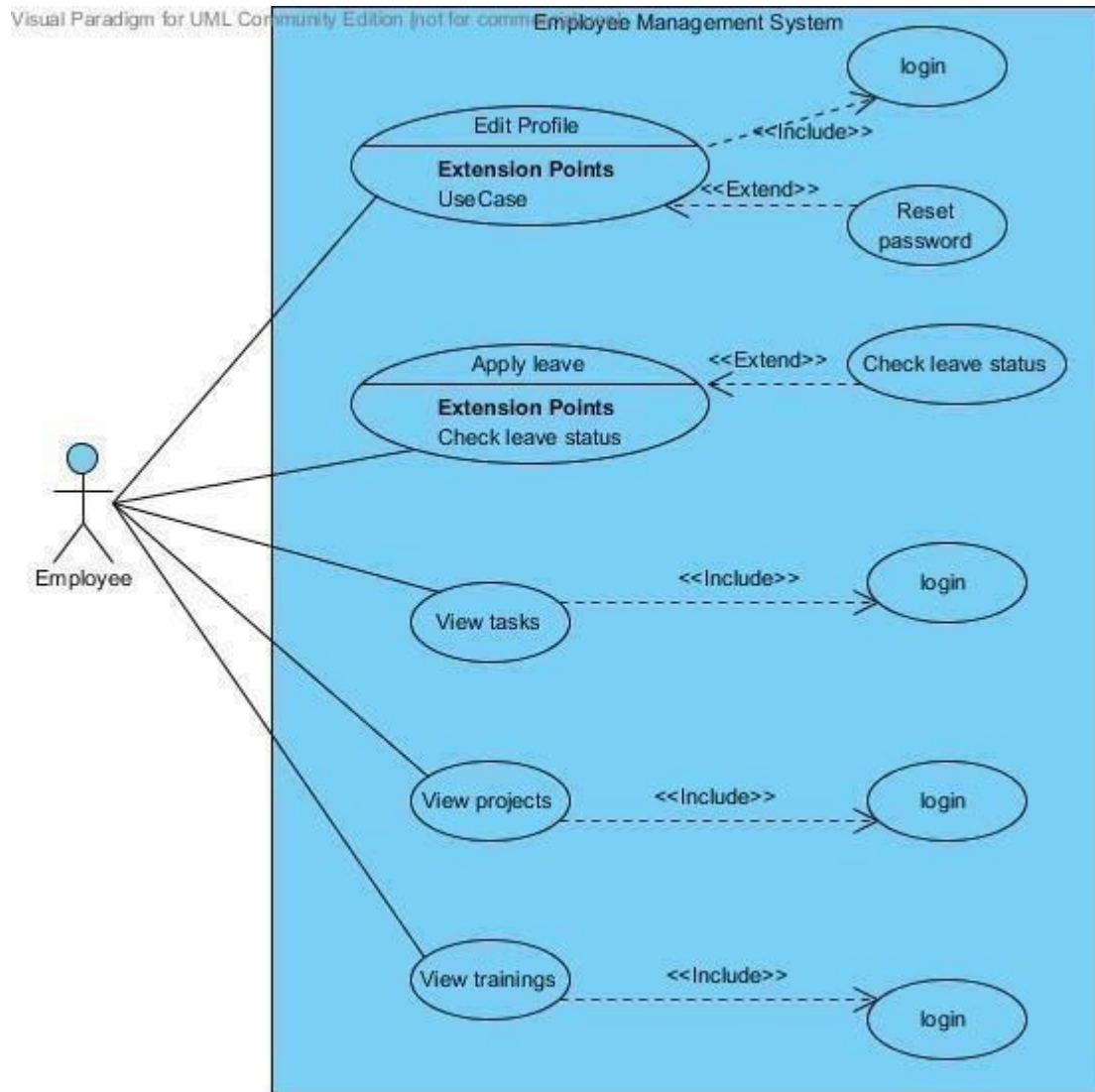


Fig: Incremental Model

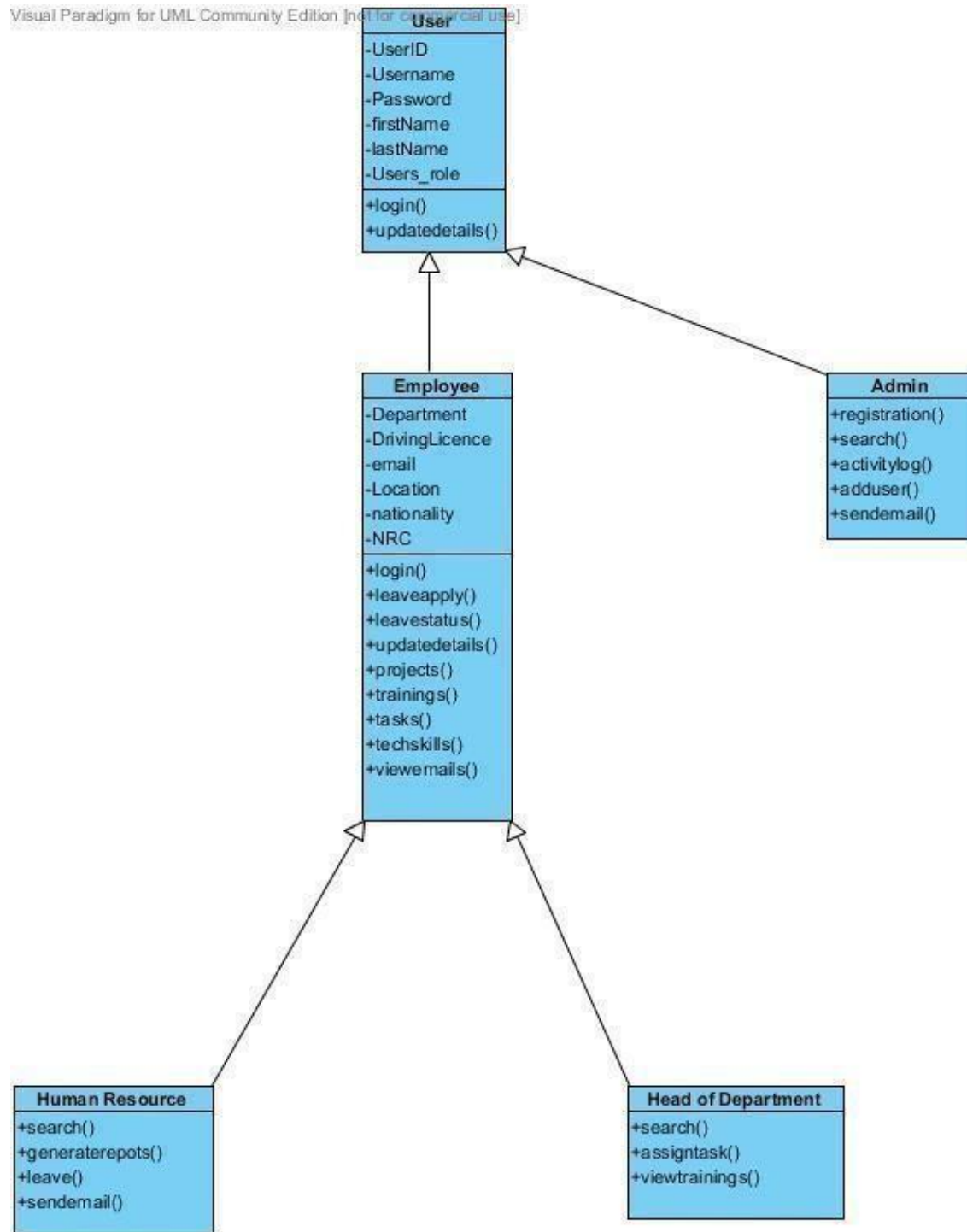
7.SYSTEM DESIGN:

7.1 Use case analysis



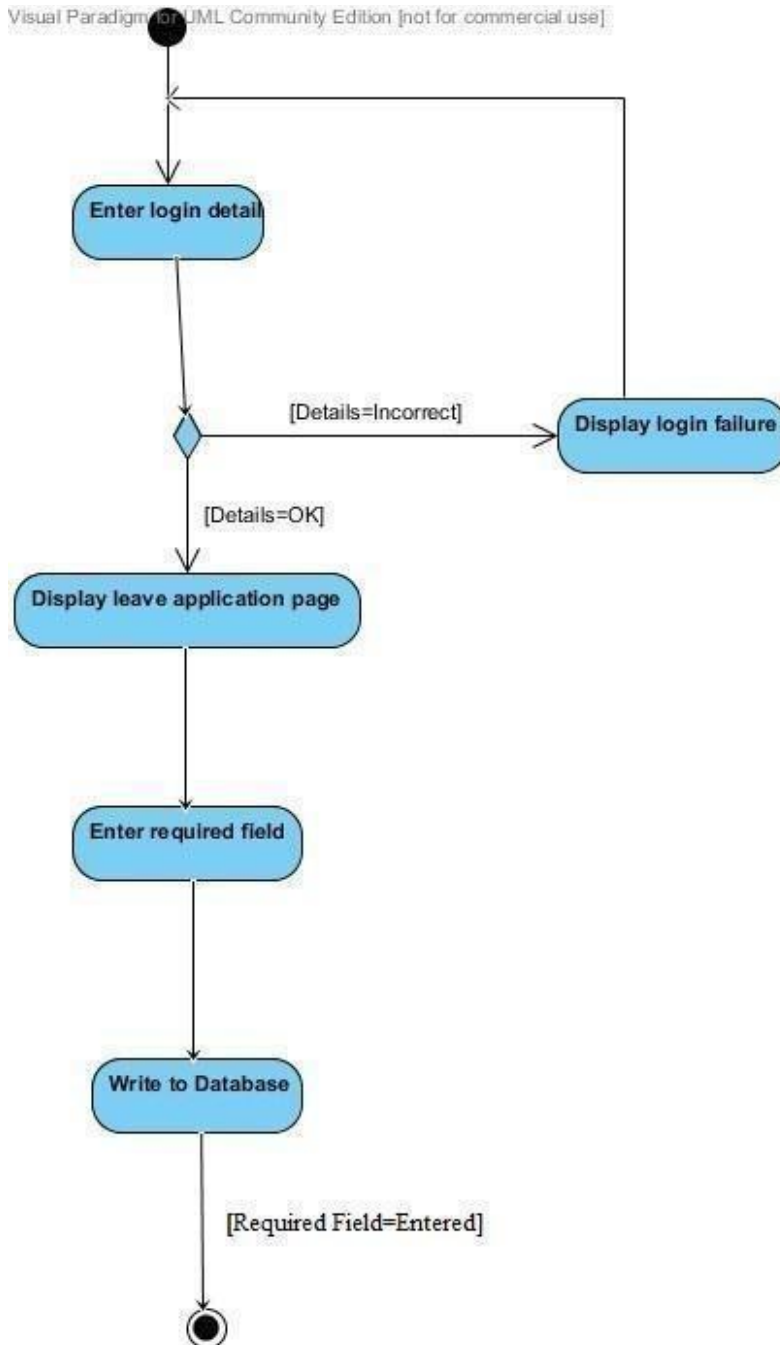
(Employee use case)

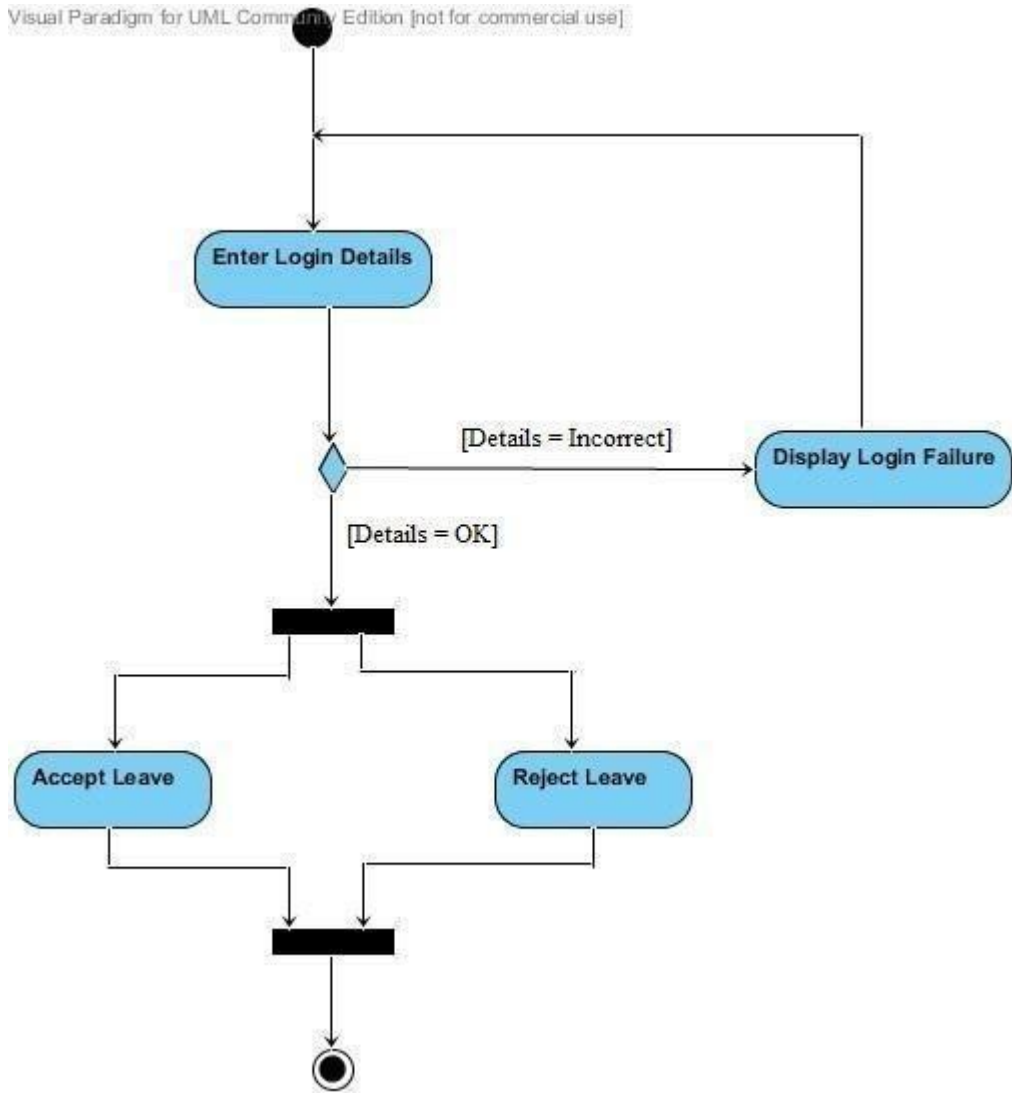
7.2 Class diagram:



7.3 SYSTEM AND ALGORITHM FLOWCHARTS

Visual Paradigm for UML Community Edition [not for commercial use]





(Leave Acceptance/Rejection)

8.IMPLEMENTATION

All these features include the ability to add user, update (edit), and retrieve through search results. It also contains a report generation system that can be saved in a pdf file format. The system works in the following manner, Accessing the system Various companies and organizations may have different employee structures and hierarchy. All users are presented with the same login interface. User must login the system by means of valid username/password combination. After access is granted to the system, the admin can add a new user to the system by entering the basic information which are the full names and email address. The admin also assigns the new user a role which will determine the access level. During the process of user registration, the all users are issued with a unique username and password combination. Seeing that the system holds private employee information, the admin has the ability to monitor all activity logs into the system by date and time.

8.1 Oracle Database

Oracle database is a powerful relational database management system that has a number of features . In today's market, oracle database management systems are one of the most popular and fulfill featured databases. Oracle databases are widely used as backend database systems for most enterprise applications because they are robust and secure. Oracle is a power hungry database that

requires a lot of system resources to function properly.

8.2 Code:-

18.2.1.Login

:- package

gui;

import java.sql.Connection;

import java.sql.DriverManager;

import java.sql.ResultSet;

import java.sql.Statement;

import javax.swing.JOptionPane;

public class Login extends javax.swing.JFrame {

/**

* Creates new form Login

*/

public Login() {

 initComponents();

```
        setLocationRelativeTo(null);  
  
    }  
  
    @SuppressWarnings("unchecked")  
  
    // <editor-fold defaultstate="collapsed" desc="Generated Code">  
  
    private void initComponents() {
```

```
jPanel1 = new javax.swing.JPanel();

jLabel4 = new javax.swing.JLabel();

jPanel2 = new javax.swing.JPanel();

jLabel11 = new javax.swing.JLabel();

jPanel3 = new javax.swing.JPanel();

jLabel2 = new javax.swing.JLabel();

jLabel3 = new javax.swing.JLabel();

u = new javax.swing.JTextField();

p = new javax.swing.JPasswordField();

jButton1 = new javax.swing.JButton();

setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);

setTitle("Login Form[ClientSOL]");

addWindowListener(new java.awt.event.WindowAdapter() {

    public void windowClosing(java.awt.event.WindowEvent evt) {

        formWindowClosing(evt);

    }

});

jPanel1.setBackground(new java.awt.Color(255, 255, 255));
```



```
jLabel4.setIcon(new
javax.swing.ImageIcon(getClass().getResource("/extrafiles/bgg.png"))); // NOI18N

javax.swing.GroupLayout jPanel1Layout = new javax.swing.GroupLayout(jPanel1);

jPanel1.setLayout(jPanel1Layout);

jPanel1Layout.setHorizontalGroup(

    jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

        .addComponent(jLabel4, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)

    );

jPanel1Layout.setVerticalGroup(

    jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

        .addComponent(jLabel4, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)

    );

jPanel2.setBackground(new java.awt.Color(0, 204, 0));

jLabel1.setFont(new java.awt.Font("Trebuchet MS", 1, 18)); // NOI18N

jLabel1.setForeground(new java.awt.Color(255, 255, 255));
```

```
jLabel1.setHorizontalAlignment(javax.swing.SwingConstants.CENTER);

jLabel1.setText("LOGIN FORM");

javax.swing.GroupLayout jPanel2Layout = new javax.swing.GroupLayout(jPanel2);
jPanel2.setLayout(jPanel2Layout);

jPanel2Layout.setHorizontalGroup(
    jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addComponent(jLabel1, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
);

jPanel2Layout.setVerticalGroup(
    jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
jPanel2Layout.createSequentialGroup()
            .addGap(36, Short.MAX_VALUE)
            .addComponent(jLabel1)
            .addGap(24, 24, 24)
        );

jPanel3.setBackground(new java.awt.Color(255, 255, 51));
```

```
jLabel2.setFont(new java.awt.Font("Trebuchet MS", 1, 18)); // NOI18N
```

```
jLabel2.setText("User ID:");
```

```
jLabel3.setFont(new java.awt.Font("Trebuchet MS", 1, 18)); // NOI18N
```

```
jLabel3.setText("Password:");
```

```
u.setFont(new java.awt.Font("Trebuchet MS", 1, 18)); // NOI18N
```

```
u.setForeground(new java.awt.Color(255, 51, 51));
```

```
p.setFont(new java.awt.Font("Trebuchet MS", 1, 18)); // NOI18N
```

```
p.setForeground(new java.awt.Color(255, 51, 51));
```

```
p.addActionListener(new java.awt.event.ActionListener() {
```

```
    public void actionPerformed(java.awt.event.ActionEvent evt) {
```

```
        pActionPerformed(evt);
```

```
    }
```

```
});
```

```
jButton1.setText("LOGIN");
```

```
jButton1.addActionListener(new java.awt.event.ActionListener() {
```

```
    public void actionPerformed(java.awt.event.ActionEvent evt) {
```

```
        jButton1ActionPerformed(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()  
            .addGap(31, 31, 31)  
  
            .addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
                .addComponent(jButton1, javax.swing.GroupLayout.DEFAULT_SIZE,  
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)  
                .addGroup(jPanel3Layout.createSequentialGroup()  
                    .addComponent(jLabel2, javax.swing.GroupLayout.PREFERRED_SIZE, 104,  
javax.swing.GroupLayout.PREFERRED_SIZE)  
                    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)  
                    .addComponent(u, javax.swing.GroupLayout.DEFAULT_SIZE, 188,  
Short.MAX_VALUE))  
                .addGroup(jPanel3Layout.createSequentialGroup()  
                    .addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
                        .addGroup(jPanel3Layout.createSequentialGroup()  
                            .addGap(31, 31, 31)  
                            .addComponent(jButton1, javax.swing.GroupLayout.DEFAULT_SIZE,  
Short.MAX_VALUE)  
                            .addGap(31, 31, 31)  
                        .addGroup(jPanel3Layout.createSequentialGroup()  
                            .addComponent(jLabel2, javax.swing.GroupLayout.PREFERRED_SIZE, 104,  
Short.MAX_VALUE)  
                            .addGap(31, 31, 31)  
                            .addComponent(u, javax.swing.GroupLayout.DEFAULT_SIZE, 188,  
Short.MAX_VALUE))  
                    .addGap(31, 31, 31)  
                .addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
                    .addComponent(jButton1, javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)  
                    .addComponent(jLabel2, javax.swing.GroupLayout.PREFERRED_SIZE, 104, Short.MAX_VALUE)  
                    .addComponent(u, javax.swing.GroupLayout.DEFAULT_SIZE, 188, Short.MAX_VALUE))  
            .addGap(31, 31, 31)  
        )  
    )  
);
```

```
        .addComponent(jLabel3, javax.swing.GroupLayout.PREFERRED_SIZE, 104,  
javax.swing.GroupLayout.PREFERRED_SIZE)
```

```
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
```

```
        .addComponent(p)))
```

```
    .addContainerGap()
```

```
);
```

```
jPanel3Layout.setVerticalGroup(  
    jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
```

```
        .addGroup(jPanel3Layout.createSequentialGroup()  
            .addGap(26, 26, 26)
```

```
                .addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
```

```
                    .addComponent(jLabel2)
```

```
                    .addComponent(u, javax.swing.GroupLayout.PREFERRED_SIZE,  
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
```

```
                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
```

```
                .addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
```

```
                    .addComponent(jLabel3)
```

```
        .addComponent(p, javax.swing.GroupLayout.PREFERRED_SIZE, 37,  
javax.swing.GroupLayout.PREFERRED_SIZE))  
  
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)  
  
        .addComponent(jButton1, javax.swing.GroupLayout.DEFAULT_SIZE,  
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)  
  
        .addContainerGap()  
  
    );
```

```
    JPanel3Layout.linkSize(javax.swing.SwingConstants.VERTICAL, new  
java.awt.Component[] {jLabel2, jLabel3, p, u});
```

```
    javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());  
  
    getContentPane().setLayout(layout);  
  
    layout.setHorizontalGroup(  
  
        layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
  
        .addGroup(layout.createSequentialGroup()  
  
            .addComponent(jPanel1, javax.swing.GroupLayout.PREFERRED_SIZE,  
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)  
  
            .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)  
  
        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
```

```

        .addComponent(jPanel2, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)

        .addComponent(jPanel3, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)))

);

layout.setVerticalGroup(

    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

        .addGroup(layout.createSequentialGroup()

            .addComponent(jPanel2, 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.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))

            .addComponent(jPanel1, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)

        );

pack();

} // </editor-fold>

```

```

private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {

```

```

    // Login Button

```

```
String s1=u.getText();

String s2=String.valueOf(p.getPassword());

try{

ResultSet rs=db.DbConnect.st.executeQuery(

"select * from ADMIN_LOGIN where A_ID='"+s1+"' and PASSWORD='"+s2+"'");

if(rs.next()){

String n=rs.getString("name");

//String n=rs.getString("name");

new Register(n).setVisible(true);

dispose();

}else{

JOptionPane.showMessageDialog(null,"Wrong Entries!");

}

}catch(Exception ex){

JOptionPane.showMessageDialog(null,ex);

}

}

private void formWindowClosing(java.awt.event.WindowEvent evt) {
```



```
//Window Closing

db.DbConnect.dbClose();

}

private void pActionPerformed(java.awt.event.ActionEvent evt) {

    jButton1ActionPerformed(null);

}

/**
 * @param args the command line arguments
 */

public static void main(String args[]) {

try {

    for (javax.swing.UIManager.LookAndFeelInfo info :
javax.swing.UIManager.getInstalledLookAndFeels()) {

        if ("Nimbus".equals(info.getName())) {

            javax.swing.UIManager.setLookAndFeel(info.getClassName());

            break;

        }

    }

}

}
```

```

        } catch (ClassNotFoundException ex) {

java.util.logging.Logger.getLogger(Login.class.getName()).log(java.util.logging.Level.SEVERE
, null, ex);

        } catch (InstantiationException ex) {

java.util.logging.Logger.getLogger(Login.class.getName()).log(java.util.logging.Level.SEVERE
, null, ex);

        } catch (IllegalAccessException ex) {

java.util.logging.Logger.getLogger(Login.class.getName()).log(java.util.logging.Level.SEVERE
, null, ex);

        } catch (javax.swing.UnsupportedLookAndFeelException ex) {

java.util.logging.Logger.getLogger(Login.class.getName()).log(java.util.logging.Level.SEVERE
, null, ex);

        }

/* Create and display the form */

java.awt.EventQueue.invokeLater(new Runnable() {

    public void run() {

        new Login().setVisible(true);

    }

});

```

```
}

// Variables declaration - do not modify

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.JPanel jPanel3;

private javax.swing.JPasswordField p;

private javax.swing.JTextField u;

}
```

8.2.2 Registration :_

```
package gui;

import static db.DbConnect.insertClient;

import java.sql.*;

import javax.swing.JOptionPane;
```

```
public class Register extends javax.swing.JFrame {

    /**
     * Creates new form Register
     */

    public Register() {

        initComponents();

        setLocationRelativeTo(null);

        d.setSelectableDateRange(new java.util.Date("01/01/1912"), new java.util.Date());

    }

    public Register(String n) {

        initComponents();

        setLocationRelativeTo(null);

        setTitle("Welcome: "+n);

        d.setSelectableDateRange(new java.util.Date("01/01/1912"), new java.util.Date());

    }

    /**
     * This method is called from within the constructor to initialize the form.
```

* WARNING: Do NOT modify this code. The content of this method is always

* regenerated by the Form Editor.

*/

@SuppressWarnings("unchecked")

// <editor-fold defaultstate="collapsed" desc="Generated Code">

private void initComponents() {

 buttonGroup1 = new javax.swing.ButtonGroup();

 jPanel1 = new javax.swing.JPanel();

 jLabel1 = new javax.swing.JLabel();

 jSeparator1 = new javax.swing.JSeparator();

 jLabel2 = new javax.swing.JLabel();

 jLabel3 = new javax.swing.JLabel();

 jLabel4 = new javax.swing.JLabel();

 jLabel5 = new javax.swing.JLabel();

 jLabel6 = new javax.swing.JLabel();

 jLabel7 = new javax.swing.JLabel();

 n = new javax.swing.JTextField();

 g1 = new javax.swing.JRadioButton();

 g2 = new javax.swing.JRadioButton();

```
g3 = new javax.swing.JRadioButton();

d = new com.toedter.calendar.JDateChooser();

c = new javax.swing.JComboBox();

jScrollPane1 = new javax.swing.JScrollPane();

a = new javax.swing.JTextArea();

j1 = new javax.swing.JCheckBox();

j2 = new javax.swing.JCheckBox();

j3 = new javax.swing.JCheckBox();

j4 = new javax.swing.JCheckBox();

jButton1 = new javax.swing.JButton();

jPanel2 = new javax.swing.JPanel();

jLabel8 = new javax.swing.JLabel();

jSeparator2 = new javax.swing.JSeparator();

jLabel9 = new javax.swing.JLabel();

dL1 = new javax.swing.JLabel();

jLabel10 = new javax.swing.JLabel();

dL2 = new javax.swing.JLabel();

dL3 = new javax.swing.JLabel();

jLabel11 = new javax.swing.JLabel();

dL4 = new javax.swing.JLabel();
```

```
jLabel12 = new javax.swing.JLabel();

dL5 = new javax.swing.JLabel();

jLabel13 = new javax.swing.JLabel();

dL6 = new javax.swing.JLabel();

jLabel14 = new javax.swing.JLabel();

jButton2 = new javax.swing.JButton();

jMenuBar1 = new javax.swing.JMenuBar();

jMenu1 = new javax.swing.JMenu();

jMenuItem1 = new javax.swing.JMenuItem();

jSeparator3 = new javax.swing.JPopupMenu.Separator();

jMenuItem2 = new javax.swing.JMenuItem();

jMenu2 = new javax.swing.JMenu();

jMenuItem3 = new javax.swing.JMenuItem();

jMenu3 = new javax.swing.JMenu();

jMenuItem4 = new javax.swing.JMenuItem();

setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);

addWindowListener(new java.awt.event.WindowAdapter() {

    public void windowClosing(java.awt.event.WindowEvent evt) {

        formWindowClosing(evt);

    }

});
```

```
    }  
  
});  
  
getContentPane().setLayout(new java.awt.CardLayout());  
  
jPanel1.setBackground(new java.awt.Color(255, 255, 204));  
  
jLabel1.setFont(new java.awt.Font("Trebuchet MS", 1, 20)); // NOI18N  
jLabel1.setHorizontalAlignment(javax.swing.SwingConstants.CENTER);  
jLabel1.setText("New Client Registration Form");  
  
jSeparator1.setBackground(new java.awt.Color(255, 102, 102));  
  
jLabel2.setFont(new java.awt.Font("Trebuchet MS", 1, 18)); // NOI18N  
jLabel2.setText("Name:");  
  
jLabel3.setFont(new java.awt.Font("Trebuchet MS", 1, 18)); // NOI18N  
jLabel3.setText("Gender:");  
  
jLabel4.setFont(new java.awt.Font("Trebuchet MS", 1, 18)); // NOI18N  
jLabel4.setText("DOB:");
```



```
jLabel5.setFont(new java.awt.Font("Trebuchet MS", 1, 18)); //NOI18N
```

```
jLabel5.setText("Country:");
```

```
jLabel6.setFont(new java.awt.Font("Trebuchet MS", 1, 18)); //NOI18N
```

```
jLabel6.setText("Address:");
```

```
jLabel7.setFont(new java.awt.Font("Trebuchet MS", 1, 18)); // NOI18N
```

```
jLabel7.setText("Language:");
```

```
buttonGroup1.add(g1);
```

```
g1.setSelected(true);
```

```
g1.setText("Male");
```

```
buttonGroup1.add(g2);
```

```
g2.setText("Female");
```

```
buttonGroup1.add(g3);
```

```
g3.setText("Other");
```

```
c.setModel(new javax.swing.DefaultComboBoxModel(new String[] { "India", "USA",  
"England", "Nepal", "China", "Japan" }));
```

```
a.setColumns(20);
```

```
a.setRows(5);
```

```
jScrollPane1.setViewportView(a);
```

```
l1.setText("Hindi");
```

```
l2.setText("English");
```

```
l3.setText("Spanish");
```

```
l4.setText("French");
```

```
jButton1.setText("Register");
```

```
jButton1.addActionListener(new java.awt.event.ActionListener() {
```

```
    public void actionPerformed(java.awt.event.ActionEvent evt) {
```

```
        jButton1ActionPerformed(evt);
```

```
    }
```

```
});
```

```
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(jLabel1, javax.swing.GroupLayout.DEFAULT_SIZE, 514,  
Short.MAX_VALUE))
```

```
                .addGroup(jPanel1Layout.createSequentialGroup()
```

```
                    .addGap(25, 25, 25)
```

```
                    .addComponent(jSeparator1))
```

```
                .addGroup(jPanel1Layout.createSequentialGroup()
```

```
                    .addGap(61, 61, 61)
```

```
            .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
```

```
.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)
```

```
    .addGroup(jPanel1Layout.createSequentialGroup())
```

```
        .addComponent(jLabel3, javax.swing.GroupLayout.PREFERRED_SIZE, 90, javax.swing.GroupLayout.PREFERRED_SIZE)
```

```
    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
```

```
        .addComponent(g1)
```

```
    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
```

```
        .addComponent(g2)
```

```
    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
```

```
        .addComponent(g3))
```

```
    .addGroup(jPanel1Layout.createSequentialGroup())
```

```
        .addComponent(jLabel5, javax.swing.GroupLayout.PREFERRED_SIZE, 90, javax.swing.GroupLayout.PREFERRED_SIZE)
```

```
    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
```

```
        .addComponent(c, 0, javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
```

```
    .addGroup(jPanel1Layout.createSequentialGroup())
```

```
        .addComponent(jLabel2, javax.swing.GroupLayout.PREFERRED_SIZE,
90, javax.swing.GroupLayout.PREFERRED_SIZE)
```

```
.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
```

```
        .addComponent(n, javax.swing.GroupLayout.PREFERRED_SIZE, 302,
javax.swing.GroupLayout.PREFERRED_SIZE))
```

```
        .addGroup(jPanel1Layout.createSequentialGroup())
```

```
        .addComponent(jLabel4, javax.swing.GroupLayout.PREFERRED_SIZE,
90, javax.swing.GroupLayout.PREFERRED_SIZE)
```

```
.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
```

```
        .addComponent(d, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
```

```
        .addGroup(jPanel1Layout.createSequentialGroup())
```

```
        .addComponent(jLabel6, javax.swing.GroupLayout.PREFERRED_SIZE,
90, javax.swing.GroupLayout.PREFERRED_SIZE)
```

```
.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
```

```
        .addComponent(jScrollPane1)))
```

```
        .addGroup(jPanel1Layout.createSequentialGroup())
```

```
        .addComponent(jLabel7, javax.swing.GroupLayout.PREFERRED_SIZE, 90,
javax.swing.GroupLayout.PREFERRED_SIZE)
```

```
.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
```

```
.addComponent(11)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)

    .addComponent(12)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)

    .addComponent(13)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)

    .addComponent(14)))

    .addGap(0, 0, Short.MAX_VALUE)))

    .addContainerGap()

.addGroup(jPanel1Layout.createSequentialGroup())

    .addGap(149, 149, 149)

    .addComponent(jButton1, javax.swing.GroupLayout.PREFERRED_SIZE, 314,
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()
```

```
.addContainerGap()

.addComponent(jLabel1)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)

.addComponent(jSeparator1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)

.addGap(18, 18, 18)

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
E)

    .addComponent(jLabel2)

    .addComponent(n, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))

.addGap(18, 18, 18)

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
E)

    .addComponent(jLabel3)

    .addComponent(g1)

    .addComponent(g2)

    .addComponent(g3))

.addGap(18, 18, 18)
```

```
.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
```

```
    .addComponent(jLabel4)
```

```
    .addComponent(d, javax.swing.GroupLayout.PREFERRED_SIZE,  
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
```

```
    .addGap(18, 18, 18)
```

```
.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
```

```
    .addComponent(jLabel5)
```

```
    .addComponent(c, javax.swing.GroupLayout.PREFERRED_SIZE,  
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
```

```
    .addGap(18, 18, 18)
```

```
.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
```

```
    .addComponent(jLabel6)
```

```
    .addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED_SIZE, 60,  
javax.swing.GroupLayout.PREFERRED_SIZE))
```

```
    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
```

```
.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
```

```
    .addComponent(jLabel7)
```



```
.addComponent(11)

.addComponent(12)

.addComponent(13)

.addComponent(14)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)

.addComponent(jButton1, javax.swing.GroupLayout.PREFERRED_SIZE, 39,
javax.swing.GroupLayout.PREFERRED_SIZE)

.addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE))

);
```

```
getContentPane().add(jPanel1, "1");
```

```
jPanel2.setBackground(new java.awt.Color(204, 255, 255));
```

```
jLabel8.setFont(new java.awt.Font("Trebuchet MS", 1, 20)); // NOI18N
```

```
jLabel8.setHorizontalAlignment(javax.swing.SwingConstants.CENTER);
```

```
jLabel8.setText("Client Registered Successfully");
```

```
jSeparator2.setBackground(new java.awt.Color(255, 102, 102));
```

```
jLabel9.setFont(new java.awt.Font("Trebuchet MS", 1, 18)); // NOI18N
```

```
jLabel9.setText("Name:");
```

```
dL1.setFont(new java.awt.Font("Trebuchet MS", 1, 20)); // NOI18N
```

```
dL1.setForeground(new java.awt.Color(255, 153, 51));
```

```
dL1.setHorizontalAlignment(javax.swing.SwingConstants.CENTER);
```

```
dL1.setText("----- ");
```

```
jLabel10.setFont(new java.awt.Font("Trebuchet MS", 1, 18)); // NOI18N
```

```
jLabel10.setText("Gender:");
```

```
dL2.setFont(new java.awt.Font("Trebuchet MS", 1, 20)); // NOI18N
```

```
dL2.setForeground(new java.awt.Color(255, 153, 51));
```

```
dL2.setHorizontalAlignment(javax.swing.SwingConstants.CENTER);
```

```
dL2.setText("----- ");
```

```
dL3.setFont(new java.awt.Font("Trebuchet MS", 1, 20)); // NOI18N
```

```
dL3.setForeground(new java.awt.Color(255, 153, 51));
```

```
dL3.setHorizontalAlignment(javax.swing.SwingConstants.CENTER);
```

```
dL3.setText("----- ");
```

```
jLabel11.setFont(new java.awt.Font("Trebuchet MS", 1, 18)); // NOI18N
```

```
jLabel11.setText("DOB:");
```

```
dL4.setFont(new java.awt.Font("Trebuchet MS", 1, 20)); // NOI18N
```

```
dL4.setForeground(new java.awt.Color(255, 153, 51));
```

```
dL4.setHorizontalAlignment(javax.swing.SwingConstants.CENTER);
```

```
dL4.setText("-----");
```

```
jLabel12.setFont(new java.awt.Font("Trebuchet MS", 1, 18)); // NOI18N
```

```
jLabel12.setText("Country:");
```

```
dL5.setFont(new java.awt.Font("Trebuchet MS", 1, 20)); // NOI18N
```

```
dL5.setForeground(new java.awt.Color(255, 153, 51));
```

```
dL5.setHorizontalAlignment(javax.swing.SwingConstants.CENTER);
```

```
dL5.setText("-----");
```

```
jLabel13.setFont(new java.awt.Font("Trebuchet MS", 1, 18)); // NOI18N
```

```
jLabel13.setText("Address:");
```

```
dL6.setFont(new java.awt.Font("Trebuchet MS", 1, 20)); // NOI18N

dL6.setForeground(new java.awt.Color(255, 153, 51));

dL6.setHorizontalAlignment(javax.swing.SwingConstants.CENTER);

dL6.setText("----- ");

jLabel14.setFont(new java.awt.Font("Trebuchet MS", 1, 18)); //NOI18N

jLabel14.setText("Language:");

jButton2.setText("BACK");

jButton2.addActionListener(new java.awt.event.ActionListener() {

    public void actionPerformed(java.awt.event.ActionEvent evt) {

        jButton2ActionPerformed(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()
```

```
.addContainerGap()

.addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

    .addComponent(jLabel8, javax.swing.GroupLayout.DEFAULT_SIZE, 514,
Short.MAX_VALUE)

    .addGroup(jPanel2Layout.createSequentialGroup())

        .addGap(10, 10, 10)

        .addComponent(jSeparator2))

    .addGroup(jPanel2Layout.createSequentialGroup())

        .addGap(46, 46, 46)

.addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

    .addGroup(jPanel2Layout.createSequentialGroup())

        .addComponent(jLabel9, javax.swing.GroupLayout.PREFERRED_SIZE, 90,
javax.swing.GroupLayout.PREFERRED_SIZE)

        .addGap(18, 18, 18)

        .addComponent(dL1, javax.swing.GroupLayout.PREFERRED_SIZE, 308,
javax.swing.GroupLayout.PREFERRED_SIZE))

    .addGroup(jPanel2Layout.createSequentialGroup())

        .addComponent(jLabel10, javax.swing.GroupLayout.PREFERRED_SIZE,
90, javax.swing.GroupLayout.PREFERRED_SIZE)

        .addGap(18, 18, 18)
```

```
.addComponent(dL2, javax.swing.GroupLayout.PREFERRED_SIZE, 308,  
javax.swing.GroupLayout.PREFERRED_SIZE))
```

```
.addGroup(jPanel2Layout.createSequentialGroup())
```

```
.addComponent(jLabel11, javax.swing.GroupLayout.PREFERRED_SIZE,  
90, javax.swing.GroupLayout.PREFERRED_SIZE)
```

```
.addGap(18, 18, 18)
```

```
.addComponent(dL3, javax.swing.GroupLayout.PREFERRED_SIZE, 308,  
javax.swing.GroupLayout.PREFERRED_SIZE))
```

```
.addGroup(jPanel2Layout.createSequentialGroup())
```

```
.addComponent(jLabel12, javax.swing.GroupLayout.PREFERRED_SIZE,  
90, javax.swing.GroupLayout.PREFERRED_SIZE)
```

```
.addGap(18, 18, 18)
```

```
.addComponent(dL4, javax.swing.GroupLayout.PREFERRED_SIZE, 308,  
javax.swing.GroupLayout.PREFERRED_SIZE))
```

```
.addGroup(jPanel2Layout.createSequentialGroup())
```

```
.addComponent(jLabel13, javax.swing.GroupLayout.PREFERRED_SIZE,  
90, javax.swing.GroupLayout.PREFERRED_SIZE)
```

```
.addGap(18, 18, 18)
```

```
.addComponent(dL5, javax.swing.GroupLayout.PREFERRED_SIZE, 308,  
javax.swing.GroupLayout.PREFERRED_SIZE))
```

```
.addGroup(jPanel2Layout.createSequentialGroup())
```

```
.addComponent(jLabel14, javax.swing.GroupLayout.PREFERRED_SIZE,  
90, javax.swing.GroupLayout.PREFERRED_SIZE)
```

```
.addGap(18, 18, 18)

.addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

    .addComponent(dL6, javax.swing.GroupLayout.PREFERRED_SIZE,
308, javax.swing.GroupLayout.PREFERRED_SIZE)

    .addComponent(jButton2, javax.swing.GroupLayout.PREFERRED_SIZE,
129, javax.swing.GroupLayout.PREFERRED_SIZE))))

    .addGap(0, 0, Short.MAX_VALUE)))

    .addContainerGap()

);

jPanel2Layout.setVerticalGroup(

    jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

    .addGroup(jPanel2Layout.createSequentialGroup()

        .addContainerGap()

        .addComponent(jLabel8)

        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)

        .addComponent(jSeparator2, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)

        .addGap(18, 18, 18)

    .addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
E)
```

```
.addComponent(jLabel9)
```

```
.addComponent(dL1))
```

```
.addGap(18, 18, 18)
```

```
.addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)  
E)
```

```
.addComponent(jLabel10)
```

```
.addComponent(dL2))
```

```
.addGap(18, 18, 18)
```

```
.addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)  
E)
```

```
.addComponent(jLabel11)
```

```
.addComponent(dL3))
```

```
.addGap(18, 18, 18)
```

```
.addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)  
E)
```

```
.addComponent(jLabel12)
```

```
.addComponent(dL4))
```

```
.addGap(18, 18, 18)
```



```
.addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)  
E)
```

```
    .addComponent(jLabel13)
```

```
    .addComponent(dL5))
```

```
    .addGap(18, 18, 18)
```

```
.addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)  
E)
```

```
    .addComponent(jLabel14)
```

```
    .addComponent(dL6))
```

```
    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
```

```
    .addComponent(jButton2)
```

```
    .addContainerGap(62, Short.MAX_VALUE))
```

```
);
```

```
getContentPane().add(jPanel2, "2");
```

```
jMenu1.setText("Operations");
```

```
jMenuItem1.setAccelerator(javax.swing.KeyStroke.getKeyStroke(java.awt.event.KeyEvent.VK_
V, java.awt.event.InputEvent.ALT_MASK));
```

```
    jMenuItem1.setIcon(new
javax.swing.ImageIcon(getClass().getResource("/extrafiles/icon.png"))); // NOI18N
```

```
    jMenuItem1.setText("View Clients");
```

```
    jMenuItem1.addActionListener(new java.awt.event.ActionListener() {
```

```
        public void actionPerformed(java.awt.event.ActionEvent evt) {
```

```
            jMenuItem1ActionPerformed(evt);
```

```
        }
```

```
    });
```

```
    jMenu1.add(jMenuItem1);
```

```
    jMenu1.add(jSeparator3);
```

```
jMenuItem2.setAccelerator(javax.swing.KeyStroke.getKeyStroke(java.awt.event.KeyEvent.VK_
ESCAPE, 0));
```

```
    jMenuItem2.setText("Exit App");
```

```
    jMenuItem2.addActionListener(new java.awt.event.ActionListener() {
```

```
        public void actionPerformed(java.awt.event.ActionEvent evt) {
```

```
            jMenuItem2ActionPerformed(evt);
```

```
        }
```

```
});
```

```
jMenu1.add(jMenuItem2);
```

```
jMenuBar1.add(jMenu1);
```

```
jMenu2.setText("Settings");
```

```
jMenuItem3.setAccelerator(javax.swing.KeyStroke.getKeyStroke(java.awt.event.KeyEvent.VK_  
L, java.awt.event.InputEvent.CTRL_MASK));
```

```
jMenuItem3.setText("Logout");
```

```
jMenuItem3.addActionListener(new java.awt.event.ActionListener() {
```

```
    public void actionPerformed(java.awt.event.ActionEvent evt) {
```

```
        jMenuItem3ActionPerformed(evt);
```

```
    }
```

```
});
```

```
jMenu2.add(jMenuItem3);
```

```
jMenu3.setText("more");
```

```
jMenuItem4.setAccelerator(javax.swing.KeyStroke.getKeyStroke(java.awt.event.KeyEvent.VK_
A, java.awt.event.InputEvent.ALT_MASK | java.awt.event.InputEvent.CTRL_MASK));
```

```
    jMenuItem4.setText("About App");
```

```
    jMenuItem4.addActionListener(new java.awt.event.ActionListener() {
```

```
        public void actionPerformed(java.awt.event.ActionEvent evt) {
```

```
            jMenuItem4ActionPerformed(evt);
```

```
        }
```

```
    });
```

```
    jMenu3.add(jMenuItem4);
```

```
    jMenu2.add(jMenu3);
```

```
    jMenuBar1.add(jMenu2);
```

```
    setJMenuBar(jMenuBar1);
```

```
    pack();
```

```
}// </editor-fold>
```

```
private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {
```

```
// Register Button

String name=n.getText();

String gender;

if(g1.isSelected())

    gender=g1.getText();

else if(g2.isSelected())

    gender=g2.getText();

else

    gender=g3.getText();

java.util.Date dt=d.getDate();

String country=(String)c.getSelectedItem();

String address=a.getText();

String language="";

if(l1.isSelected())

    language +=l1.getText()+",";

if(l2.isSelected())

    language +=l2.getText()+",";

if(l3.isSelected())

    language +=l3.getText()+",";

if(l4.isSelected())
```

```
language += l4.getText()+",";

if(!language.equals("")){

    language=language.substring(0,language.length()-1);

}

if(d!=null && !name.equals("") && !address.equals("")){

    java.sql.Date dob=new java.sql.Date(dt.getTime());

    try{

        db.DbConnect.insertClient.setString(1, name);

        db.DbConnect.insertClient.setString(2, gender);

        db.DbConnect.insertClient.setDate(3, dob);

        db.DbConnect.insertClient.setString(4, country);

        db.DbConnect.insertClient.setString(5, address);

        db.DbConnect.insertClient.setString(6, language);

        db.DbConnect.insertClient.executeUpdate();

        java.awt.Container ct=getContentPane();

        java.awt.CardLayout cd=(java.awt.CardLayout)ct.getLayout();

        cd.show(ct,"2");

        dL1.setText(name);

        dL2.setText(gender);

        dL3.setText(dob.toString());
```

```
    dL4.setText(country);

    dL5.setText(address);

    dL6.setText(language);

    }catch(Exception ex){

        JOptionPane.showMessageDialog(null,ex);

    }

    }else{

        JOptionPane.showMessageDialog(null,"Plz Fill the complete form.");

    }

}
```

```
private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {

    // Back Button

    java.awt.Container ct=getContentPane();

    java.awt.CardLayout cd=(java.awt.CardLayout)ct.getLayout();

    cd.show(ct,"1");

}
```

```
private void formWindowClosing(java.awt.event.WindowEvent evt) {

    //Window Closing
```

```
        db.DbConnect.dbClose();  
    }  
  
    private void jMenuItem1ActionPerformed(java.awt.event.ActionEvent evt) {  
  
        // View CLient MenuItem  
  
        new ViewClients().setVisible(true);  
    }  
  
    private void jMenuItem2ActionPerformed(java.awt.event.ActionEvent evt) {  
  
        //Exit MenuItem  
  
        db.DbConnect.dbClose();  
  
        System.exit(0);  
    }  
  
    private void jMenuItem3ActionPerformed(java.awt.event.ActionEvent evt) {  
  
        // Logout MenuItem  
  
        new Login().setVisible(true);  
  
        dispose();  
    }  
}
```



```
private void jMenuItem4ActionPerformed(java.awt.event.ActionEvent evt) {  
  
    // About App MenuItem  
  
    JOptionPane.showMessageDialog(null,"Design and Develop by INCAPP !!");  
  
}  
  
/**  
  
 * @param args the command line arguments  
  
 */  
  
// Variables declaration - do not modify  
  
private javax.swing.JTextArea a;  
  
private javax.swing.ButtonGroup buttonGroup1;  
  
private javax.swing.JComboBox c;  
  
private com.toedter.calendar.JDateChooser d;  
  
private javax.swing.JLabel dL1;  
  
private javax.swing.JLabel dL2;  
  
private javax.swing.JLabel dL3;  
  
private javax.swing.JLabel dL4;  
  
private javax.swing.JLabel dL5;
```

```
private javax.swing.JLabel dL6;

private javax.swing.JRadioButton g1;

private javax.swing.JRadioButton g2;

private javax.swing.JRadioButton g3;

private javax.swing.JButton jButton1;

private javax.swing.JButton jButton2;

private javax.swing.JLabel jLabel1;

private javax.swing.JLabel jLabel10;

private javax.swing.JLabel jLabel11;

private javax.swing.JLabel jLabel12;

private javax.swing.JLabel jLabel13;

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.JMenu jMenu1;

private javax.swing.JMenu jMenu2;

private javax.swing.JMenu jMenu3;

private javax.swing.JMenuBar jMenuBar1;

private javax.swing.JMenuItem jMenuItem1;

private javax.swing.JMenuItem jMenuItem2;

private javax.swing.JMenuItem jMenuItem3;

private javax.swing.JMenuItem jMenuItem4;

private javax.swing.JPanel jPanel1;

private javax.swing.JPanel jPanel2;

private javax.swing.JScrollPane jScrollPane1;

private javax.swing.JSeparator jSeparator1;

private javax.swing.JSeparator jSeparator2;

private javax.swing.JPopupMenu.Separator jSeparator3;

private javax.swing.JCheckBox j1;

private javax.swing.JCheckBox j2;

private javax.swing.JCheckBox j3;

private javax.swing.JCheckBox j4;

private javax.swing.JTextField n;

// End of variables declaration
```

```
}
```

8.2.3 View client:-

```
/*
```

* To change this license header, choose License Headers in Project Properties.

* To change this template file, choose Tools | Templates

* and open the template in the editor.

```
*/
```

```
package gui;
```

```
import java.sql.ResultSet;
```

```
import java.util.StringTokenizer;
```

```
import java.util.Vector;
```

```
import javax.swing.JOptionPane;
```

```
/**
```

```
*
```

```
* @author intel
```

```
*/
```

```
public class ViewClients extends javax.swing.JFrame {

    /**
     * Creates new form ViewClients
     */

    public ViewClients() {

        initComponents();

        setLocationRelativeTo(null);

        d.setSelectableDateRange(new java.util.Date("01/01/1912"), new java.util.Date());

    }

    /**
     * This method is called from within the constructor to initialize the form.
     * WARNING: Do NOT modify this code. The content of this method is always
     * regenerated by the Form Editor.
     */

    @SuppressWarnings("unchecked")

    // <editor-fold defaultstate="collapsed" desc="Generated Code">

    private void initComponents() {
```

```
buttonGroup1 = new javax.swing.ButtonGroup();

jLabel1 = new javax.swing.JLabel();

t = new javax.swing.JTextField();

jScrollPane1 = new javax.swing.JScrollPane();

rTable = new javax.swing.JTable();

jPanel1 = new javax.swing.JPanel();

jLabel3 = new javax.swing.JLabel();

jLabel4 = new javax.swing.JLabel();

jLabel5 = new javax.swing.JLabel();

jLabel6 = new javax.swing.JLabel();

jLabel7 = new javax.swing.JLabel();

jLabel8 = new javax.swing.JLabel();

n = new javax.swing.JTextField();

g1 = new javax.swing.JRadioButton();

g2 = new javax.swing.JRadioButton();

g3 = new javax.swing.JRadioButton();

d = new com.toedter.calendar.JDateChooser();

c = new javax.swing.JComboBox();

jScrollPane2 = new javax.swing.JScrollPane();

a = new javax.swing.JTextArea();
```

```
l1 = new javax.swing.JCheckBox();

l2 = new javax.swing.JCheckBox();

l3 = new javax.swing.JCheckBox();

l4 = new javax.swing.JCheckBox();

jButton1 = new javax.swing.JButton();

jLabel9 = new javax.swing.JLabel();

cid = new javax.swing.JLabel();

jButton2 = new javax.swing.JButton();

setDefaultCloseOperation(javax.swing.WindowConstants.DISPOSE_ON_CLOSE);

setTitle("View Clients[Client Sol]");

setAlwaysOnTop(true);

jLabel1.setText("Name:");

t.addActionListener(new java.awt.event.ActionListener() {

    public void actionPerformed(java.awt.event.ActionEvent evt) {

        tActionPerformed(evt);

    }

});
```

```

t.addKeyListener(new java.awt.event.KeyAdapter() {

    public void keyReleased(java.awt.event.KeyEvent evt) {

        tKeyReleased(evt);

    }

});

rTable.setModel(new javax.swing.table.DefaultTableModel(

    new Object [][] {

        },

    new String [] {

        "CID", "Name", "Gender", "DOB", "Country", "Address", "Language"

    }

) {

    boolean[] canEdit = new boolean [] {

        false, false, false, false, false, true, false

    };

    public boolean isCellEditable(int rowIndex, int columnIndex) {

        return canEdit [columnIndex];

```



```
    }  
});  
  
rTable.addMouseListener(new java.awt.event.MouseAdapter() {  
    public void mousePressed(java.awt.event.MouseEvent evt) {  
        rTableMousePressed(evt);  
    }  
  
    public void mouseClicked(java.awt.event.MouseEvent evt) {  
        rTableMouseClicked(evt);  
    }  
});  
  
jScrollPane1.setViewportView(rTable);  
  
jPanel1.setBackground(new java.awt.Color(255, 255, 204));  
  
jLabel3.setFont(new java.awt.Font("Trebuchet MS", 1, 18)); // NOI18N  
jLabel3.setText("Name:");  
  
jLabel4.setFont(new java.awt.Font("Trebuchet MS", 1, 18)); // NOI18N  
jLabel4.setText("Gender:");
```

```
jLabel5.setFont(new java.awt.Font("Trebuchet MS", 1, 18)); // NOI18N
```

```
jLabel5.setText("DOB:");
```

```
jLabel6.setFont(new java.awt.Font("Trebuchet MS", 1, 18)); //NOI18N
```

```
jLabel6.setText("Country:");
```

```
jLabel7.setFont(new java.awt.Font("Trebuchet MS", 1, 18)); //NOI18N
```

```
jLabel7.setText("Address:");
```

```
jLabel8.setFont(new java.awt.Font("Trebuchet MS", 1, 18)); // NOI18N
```

```
jLabel8.setText("Language:");
```

```
buttonGroup1.add(g1);
```

```
g1.setSelected(true);
```

```
g1.setText("Male");
```

```
buttonGroup1.add(g2);
```

```
g2.setText("Female");
```

```
buttonGroup1.add(g3);
```

```
g3.setText("Other");
```

```
c.setModel(new javax.swing.DefaultComboBoxModel(new String[] { "India", "USA",  
"England", "Nepal", "China", "Japan" }));
```

```
a.setColumns(20);
```

```
a.setRows(5);
```

```
jScrollPane2.setViewportView(a);
```

```
l1.setText("Hindi");
```

```
l2.setText("English");
```

```
l3.setText("Spanish");
```

```
l4.setText("French");
```

```
jButton1.setText("DELETE");
```

```
jButton1.addActionListener(new java.awt.event.ActionListener() {
```

```
    public void actionPerformed(java.awt.event.ActionEvent evt) {
```

```
        jButton1ActionPerformed(evt);

    }

});

jLabel9.setFont(new java.awt.Font("Trebuchet MS", 1, 18)); // NOI18N

jLabel9.setText("Client ID:");

cid.setFont(new java.awt.Font("Trebuchet MS", 1, 18)); //NOI18N

cid.setText(" ----- ");

jButton2.setText("UPDATE");

jButton2.addActionListener(new java.awt.event.ActionListener() {

    public void actionPerformed(java.awt.event.ActionEvent evt) {

        jButton2ActionPerformed(evt);

    }

});

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(61, 61, 61)

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(jPanel1Layout.createSequentialGroup()

.addComponent(jLabel8, javax.swing.GroupLayout.PREFERRED_SIZE, 90,
javax.swing.GroupLayout.PREFERRED_SIZE)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)

.addComponent(11)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)

.addComponent(12)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)

.addComponent(13)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)

.addComponent(14))

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING
, false)
```

```
.addGroup(jPanel1Layout.createSequentialGroup())

    .addComponent(jLabel9, javax.swing.GroupLayout.PREFERRED_SIZE, 90,
javax.swing.GroupLayout.PREFERRED_SIZE)

    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)

    .addComponent(cid, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))

    .addGroup(javax.swing.GroupLayout.Alignment.LEADING,
jPanel1Layout.createSequentialGroup())

    .addComponent(jLabel4, javax.swing.GroupLayout.PREFERRED_SIZE, 90,
javax.swing.GroupLayout.PREFERRED_SIZE)

    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)

    .addComponent(g1)

    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)

    .addComponent(g2)

    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)

    .addComponent(g3))

    .addGroup(javax.swing.GroupLayout.Alignment.LEADING,
jPanel1Layout.createSequentialGroup())

    .addComponent(jLabel6, javax.swing.GroupLayout.PREFERRED_SIZE, 90,
javax.swing.GroupLayout.PREFERRED_SIZE)

    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
```

```
.addComponent(c, 0, javax.swing.GroupLayout.DEFAULT_SIZE,  
Short.MAX_VALUE))  
  
.addGroup(javax.swing.GroupLayout.Alignment.LEADING,  
jPanel1Layout.createSequentialGroup())  
  
.addComponent(jLabel3, javax.swing.GroupLayout.PREFERRED_SIZE, 90,  
javax.swing.GroupLayout.PREFERRED_SIZE)  
  
.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)  
  
.addComponent(n, javax.swing.GroupLayout.PREFERRED_SIZE, 302,  
javax.swing.GroupLayout.PREFERRED_SIZE))  
  
.addGroup(javax.swing.GroupLayout.Alignment.LEADING,  
jPanel1Layout.createSequentialGroup())  
  
.addComponent(jLabel5, javax.swing.GroupLayout.PREFERRED_SIZE, 90,  
javax.swing.GroupLayout.PREFERRED_SIZE)  
  
.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)  
  
.addComponent(d, javax.swing.GroupLayout.DEFAULT_SIZE,  
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))  
  
.addGroup(javax.swing.GroupLayout.Alignment.LEADING,  
jPanel1Layout.createSequentialGroup())  
  
.addComponent(jLabel7, javax.swing.GroupLayout.PREFERRED_SIZE, 90,  
javax.swing.GroupLayout.PREFERRED_SIZE)  
  
.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)  
  
.addComponent(jScrollPane2)))  
  
.addGroup(jPanel1Layout.createSequentialGroup())
```

```
.addComponent(jButton2, javax.swing.GroupLayout.PREFERRED_SIZE, 222,
javax.swing.GroupLayout.PREFERRED_SIZE)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)

.addComponent(jButton1, javax.swing.GroupLayout.PREFERRED_SIZE, 164,
javax.swing.GroupLayout.PREFERRED_SIZE)))

.addContainerGap(51, Short.MAX_VALUE))

);

jPanel1Layout.setVerticalGroup(

jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(jPanel1Layout.createSequentialGroup()

.addGap(32, 32, 32)

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

E)

.addComponent(jLabel9)

.addComponent(cid))

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

E)

.addComponent(jLabel3)
```



```
.addComponent(n, javax.swing.GroupLayout.PREFERRED_SIZE,  
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
```

```
.addGap(18, 18, 18)
```

```
.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)  
E)
```

```
.addComponent(jLabel4)
```

```
.addComponent(g1)
```

```
.addComponent(g2)
```

```
.addComponent(g3))
```

```
.addGap(18, 18, 18)
```

```
.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
```

```
.addComponent(jLabel5)
```

```
.addComponent(d, javax.swing.GroupLayout.PREFERRED_SIZE,  
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
```

```
.addGap(18, 18, 18)
```

```
.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)  
E)
```

```
.addComponent(jLabel6)
```

```
.addComponent(c, javax.swing.GroupLayout.PREFERRED_SIZE,  
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
```

```
.addGap(18, 18, 18)
```

```
.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
```

```
    .addComponent(jLabel7)
```

```
    .addComponent(jScrollPane2, javax.swing.GroupLayout.PREFERRED_SIZE, 60,  
javax.swing.GroupLayout.PREFERRED_SIZE))
```

```
    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
```

```
.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
```

```
    .addComponent(jLabel8)
```

```
    .addComponent(11)
```

```
    .addComponent(12)
```

```
    .addComponent(13)
```

```
    .addComponent(14))
```

```
.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
```

```
.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
```

```
    .addComponent(jButton1, javax.swing.GroupLayout.PREFERRED_SIZE, 39,  
javax.swing.GroupLayout.PREFERRED_SIZE)
```

```
    .addComponent(jButton2, javax.swing.GroupLayout.PREFERRED_SIZE, 39,  
javax.swing.GroupLayout.PREFERRED_SIZE))
```



```
layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(layout.createSequentialGroup()

    .addContainerGap()

    .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

        .addComponent(jLabel1)

        .addComponent(t, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))

        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)

        .addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED_SIZE, 131,
javax.swing.GroupLayout.PREFERRED_SIZE)

        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)

        .addComponent(jPanel1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)

        .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE))

    );

pack();

} // </editor-fold>

private void tActionPerformed(java.awt.event.ActionEvent evt) {
```

```
// TODO add your handling code here:

}

private void tKeyReleased(java.awt.event.KeyEvent evt) {

    javax.swing.table.DefaultTableModel dtm

        = (javax.swing.table.DefaultTableModel) rTable.getModel();

    int rc=dtm.getRowCount();

    while(rc--!=0){

        dtm.removeRow(0);

    }

    String n = t.getText();

    try {

        db.DbConnect.getClients.setString(1, "%" + n + "%");

        ResultSet rs = db.DbConnect.getClients.executeQuery();

        while (rs.next()) {

            Vector r = new Vector();

            r.add(rs.getInt("cid"));

            r.add(rs.getString("name"));

            r.add(rs.getString("gender"));

            r.add(rs.getDate("dob"));

        }

    }

}
```

```

        r.add(rs.getString("country"));

        r.add(rs.getString("address"));

        r.add(rs.getString("language"));

        dtm.addRow(r);

    }

} catch (Exception ex) {

    JOptionPane.showMessageDialog(null, ex);

}

}

private void rTableMouseClicked(java.awt.event.MouseEvent evt) {

    int ri=rTable.getSelectedRow();

    if(ri!=-1){

        int id=(Integer)rTable.getValueAt(ri,0);

        String name=(String)rTable.getValueAt(ri,1);

        String gender=(String)rTable.getValueAt(ri,2);

        java.util.Date dob=(java.util.Date)rTable.getValueAt(ri,3);

        String country=(String)rTable.getValueAt(ri,4);

        String address=(String)rTable.getValueAt(ri,5);

        String language=(String)rTable.getValueAt(ri,6) +"";
    }
}

```

```
cid.setText(id+"");

n.setText(name);

if(gender.equals("Male"))

    g1.setSelected(true);

elseif(gender.equals("Female"))

    g2.setSelected(true);

else

    g3.setSelected(true);

d.setDate(dob);

c.setSelectedItem(country);

a.setText(address);

l1.setSelected(false);

l2.setSelected(false);

l3.setSelected(false);

l4.setSelected(false);

StringTokenizer st=new StringTokenizer(language,",");

while(st.hasMoreTokens()){

    String t=st.nextToken();

    if(t.equals("Hindi"))

        l1.setSelected(true);
```

```
        elseif(t.equals("English"))

            l2.setSelected(true);

        elseif(t.equals("Spanish"))

            l3.setSelected(true);

        elseif(t.equals("French"))

            l4.setSelected(true);

    }

}

}

private void rTableMousePressed(java.awt.event.MouseEvent evt) {

}

private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {

    //Update Button

    String name=n.getText();

    String gender;

    if(g1.isSelected())

        gender=g1.getText();
```



```
else if(g2.isSelected())

    gender=g2.getText();

else

    gender=g3.getText();

java.util.Date dt=d.getDate();

String country=(String)c.getSelectedItem();

String address=a.getText();

String language="";

if(l1.isSelected())

    language +=l1.getText()+",";

if(l2.isSelected())

    language +=l2.getText()+",";

if(l3.isSelected())

    language +=l3.getText()+",";

if(l4.isSelected())

    language += l4.getText()+",";

if(!language.equals("")){

    language=language.substring(0,language.length()-1);

}

if(d!=null && !name.equals("") && !address.equals("")){
```

```
int id=Integer.parseInt(cid.getText());

java.sql.Date dob=new java.sql.Date(dt.getTime());

try{

db.DbConnect.updateClient.setString(1, name);

db.DbConnect.updateClient.setString(2, gender);

db.DbConnect.updateClient.setDate(3, dob);

db.DbConnect.updateClient.setString(4, country);

db.DbConnect.updateClient.setString(5, address);

db.DbConnect.updateClient.setString(6, language);

db.DbConnect.updateClient.setInt(7, id);

db.DbConnect.updateClient.executeUpdate();

tKeyReleased(null);

JOptionPane.showMessageDialog(null,"Data Updated Successfully");

}catch(Exception ex){

    JOptionPane.showMessageDialog(null,ex);

}

}else{

    JOptionPane.showMessageDialog(null,"Plz Fill the complete form.");

}

}
```

```
private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {  
  
    // Delete Button  
  
    int r=JOptionPane.showConfirmDialog(null,"Do u really wanna delete?",  
  
        "Deletion Confirmation", JOptionPane.YES_NO_OPTION);  
  
    if(r==JOptionPane.YES_OPTION){  
  
        int id=Integer.parseInt(cid.getText());  
  
        try{  
  
            db.DbConnect.st.executeUpdate("delete from client_info where cid="+id);  
  
            tKeyReleased(null);  
  
            JOptionPane.showMessageDialog(null,"Data Deleted Successfully");  
  
        }catch(Exception ex){  
  
            JOptionPane.showMessageDialog(null,ex);  
  
        }  
  
    }  
  
}  
  
/**  
  
 * @param args the command line arguments  
  
 */
```

```
// Variables declaration - do not modify

private javax.swing.JTextArea a;

private javax.swing.ButtonGroup buttonGroup1;

private javax.swing.JComboBox c;

private javax.swing.JLabel cid;

private com.toedter.calendar.JDateChooser d;

private javax.swing.JRadioButton g1;

private javax.swing.JRadioButton g2;

private javax.swing.JRadioButton g3;

private javax.swing.JButton jButton1;

private javax.swing.JButton jButton2;

private javax.swing.JLabel jLabel1;

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.JScrollPane jScrollPane1;

private javax.swing.JScrollPane jScrollPane2;

private javax.swing.JCheckBox j1;

private javax.swing.JCheckBox j2;

private javax.swing.JCheckBox j3;

private javax.swing.JCheckBox j4;

private javax.swing.JTextField n;

private javax.swing.JTable rTable;

private javax.swing.JTextField t;

// End of variables declaration

}
```

8.2.4 Database's code:-

```
package db;

import java.sql.*;

import javax.swing.JOptionPane;
```

```

public class DbConnect {

    public static Connection c;

    public static Statement st;

    public static PreparedStatement insertClient, getClients, updateClient;

    static{

        try{

            Class.forName("oracle.jdbc.driver.OracleDriver");

            c=DriverManager.getConnection(

                "jdbc:oracle:thin:@localhost:1521:xe","clientsoldb","clientsoldb");

            st=c.createStatement();

            insertClient=c.prepareStatement("insert into client_info
            (name,gender,dob,country,address,language) "

            + "values(?,?,?,?,?,?)");

            getClients=c.prepareStatement("select * from client_info where name like ?");

            updateClient=c.prepareStatement("update client_info set name=?,gender=?,dob=?,country=?,"

            + "address=?,language=? where cid=?");

        }catch(Exception ex){

            JOptionPane.showMessageDialog(null,ex);

            ex.printStackTrace();

```

```
    }  
}  
  
static public void dbClose(){  
    try{  
        c.close();  
    }catch(Exception ex){  
        JOptionPane.showMessageDialog(null,ex);  
    }  
}  
}
```

8.3 OUTPUTS:-



Login Form[ClientSOL]

LOGIN FORM

User ID:

Password:

(Login page)

Client ID: -----

Name:

Gender: Male Female Other

DOB:

Country:

Address:

Language: Hindi English Spanish French

Welcome: asim

Operations Settings

New Client Registration Form

Name:

Gender: Male Female Other

DOB:

Country: ▼

Address:

Language: Hindi English Spanish French

(Registrataion)



(After Resgitation)

View Clients[Client Sol]

Name: K

CID	Name	Gender	DOB	Country	Address	Language
10	MAHAK R...	Male	2001-05-...	England	Paris	Hindi,En...
14	Kashif	Male	1995-08-...	Japan	House n...	English,S...
18	Kishan s...	Male	1998-04-...	USA	Washingt...	English,S...

Client ID: 18

Name:

Gender: Male Female Other

DOB:

Country: ▼

Address:

Language: Hindi English Spanish French

(View details)

View Clients[Client Sol]

Name: K

CID	Name	Gender	DOB	Country	Address	Language
10	MAHAK R...	Male	2001-05-...	England	Paris	Hindi,En...
14	Kashif	Male	1995-08-...	Japan	House n...	English,S...
18	Kishan Y...	Male	1991-04-...	England	Pasris	English,F...

Client ID

Name:

Gender:


DOB:

Country:

Address:

Language: Hindi English Spanish French

Message

 Data Updated Successfully

(Update details)

View Clients[Client Sol]

Name: K

CID	Name	Gender	DOB	Country	Address	Language
10	MAHAK R...	Male	2001-05-...	England	Paris	Hindi,En...
14	Kashif	Male	1995-08-...	Japan	House n...	English,S...
18	Kishan Y...	Male	1991-04-...	England	Pasris	English,F...

Client ID

Name:

Gender:

DOB:

Country:

Address:

Language: Hindi English Spanish French

Deletion Confirmation

Do u really wanna delete?

(Delete client details)

View Clients[Client Sol]

Name:

CID	Name	Gender	DOB	Country	Address	Language

Client ID: -----

Name:

Gender: Male Female Other

DOB:

Country:

Address:

Language: Hindi English Spanish French

(After delete)

ORACLE Application Express

Welcome CLIENTSOLDB1 (Logout)

Home Application Builder SQL Workshop Team Development Administration

Home SQL Workshop Object Browser Schema CLIENTSOLDB1

ADMIN_LOGIN

Table Data Indexes Model Constraints Grants Statistics UI Defaults Triggers Dependencies SQL

Add Column Modify Column Rename Column Drop Column Rename Copy Drop Truncate Create Lookup Table

Column Name	Data Type	Nullable	Default	Primary Key
A_ID	VARCHAR2(20)	No	-	1
NAME	VARCHAR2(50)	No	-	-
PASSWORD	VARCHAR2(50)	No	-	-

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ORACLE Application Express Welcome CLIENTSOLDB1 (Logout)

Home Application Builder SQL Workshop Team Development Administration

Home > SQL Workshop > Object Browser Schema CLIENTSOLDB1 Help

Tables

- ADMIN_LOGIN
- APEXS_ACL
- APEXS_WS_FILES
- APEXS_WS_HISTORY
- APEXS_WS_LINKS
- APEXS_WS_NOTES
- APEXS_WS_ROWS
- APEXS_WS_TAGS
- APEXS_WS_WEBPO_SECTIONS
- APEXS_WS_WEBPO_SECTION_H
- DEMO_CUSTOMERS
- DEMO_ORDERS
- DEMO_ORDER_ITEMS
- DEMO_PRODUCT_INFO
- DEMO_STATES
- DEMO_USERS
- DEPT
- EMP

ADMIN_LOGIN Create

Table Data Indexes Model Constraints Grants Statistics UI Defaults Triggers Dependencies SQL

Query | Count Rows | Insert Row

EDIT	NAME	A_ID	PASSWORD
	asim	asim	asim

row(s) 1 - 1 of 1

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(Admin login)

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Home > SQL Workshop > Object Browser Schema CLIENTSOLDB1 Help

Tables

- ADMIN_LOGIN
- APEXS_ACL
- APEXS_WS_FILES
- APEXS_WS_HISTORY
- APEXS_WS_LINKS
- APEXS_WS_NOTES
- APEXS_WS_ROWS
- APEXS_WS_TAGS
- APEXS_WS_WEBPO_SECTIONS
- APEXS_WS_WEBPO_SECTION_H
- CLIENT_INFO
- DEMO_CUSTOMERS
- DEMO_ORDERS
- DEMO_ORDER_ITEMS
- DEMO_PRODUCT_INFO
- DEMO_STATES
- DEMO_USERS
- DEPT
- EMP

CLIENT_INFO Create

Table Data Indexes Model Constraints Grants Statistics UI Defaults Triggers Dependencies SQL

Add Column | Modify Column | Rename Column | Drop Column | Rename | Copy | Paste | Truncate | Create Lookup Table

Column Name	Data Type	Nullable	Default	Primary Key
CID	NUMBER	No	-	1
NAME	VARCHAR2(20)	Yes	-	-
GENDER	VARCHAR2(10)	Yes	-	-
COUNTRY	VARCHAR2(20)	Yes	-	-
ADDRESS	VARCHAR2(300)	Yes	-	-
LANGUAGE	VARCHAR2(100)	Yes	-	-
DOB	DATE	Yes	-	1-7

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Home Application Builder SQL Workshop Team Development Administration

Home > SQL Workshop > Object Browser Schema CLIENTSOLDB1 Help

Tables

- ADMIN_LOGIN
- APEXS_ACL
- APEXS_WS_FILES
- APEXS_WS_HISTORY
- APEXS_WS_LINKS
- APEXS_WS_NOTES
- APEXS_WS_ROWS
- APEXS_WS_TAGS
- APEXS_WS_WEBPO_SECTIONS
- APEXS_WS_WEBPO_SECTION_H
- CLIENT_INFO
- DEMO_CUSTOMERS
- DEMO_ORDERS
- DEMO_ORDER_ITEMS
- DEMO_PRODUCT_INFO
- DEMO_STATES
- DEMO_USERS
- DEPT
- EMP

CLIENT_INFO Create

Table Data Indexes Model Constraints Grants Statistics UI Defaults Triggers Dependencies SQL

Query | Count Rows | Insert Row

EDIT	CID	NAME	GENDER	COUNTRY	ADDRESS	LANGUAGE	DOB
	17	Rohan Verma	Male	USA	California	English Spanish	02/09/1998
	10	MAHAK REHBAR	Male	England	Paris	Hindi,English	05/08/2001
	15	Qasim	Male	India	H N-34 near nagar palika thakurbura road seotra bijnor UP-246746	English,Spanish	10/08/1978
	11	Mehd Amaan	Male	China	Wuhan	Hindi,English	12/25/2003
	13	asim	Male	USA	london	Hindi,English	01/04/1997
	14	Kashif	Male	Japan	House no-74 near xanking street Tokyo Japan	English,Spanish	08/13/1995
	18	Kishan YADAV	Male	England	Paris	English, French	04/02/1991

row(s) 1 - 7 of 7

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Activate Windows
Go to Settings to activate Windows

(Client_info table)

9. Software requirements:-

1. Web browser-Google chrome/internet explorer/Mozilla firefox.
2. IDE(integrated development environment)-Netbeans.
3. Database-Oracle
4. Operating System-Windows7/windows10(64 bit OperatingSystem)
5. Programming languages-Java,SQL

10. Hardware requirements:-

1. 4GB RAM
2. 500GB Hard disk(minimum)
3. Intel(R) Core(TM) i3 3120M CPU @2.50 GHz
4. Monitor Resolution 1024 X 768 or higher.
5. Internet Connection Broadband (high-speed) Internet connection with a speed of 4 Mbps or higher.
6. Keyboard and a Microsoft Mouse or some other compatible pointing device.

11. CONCLUSION

Overall, the system is useful for all the users to maintain information at various levels. It connects admin and employee and thus easy to maintain. Now admin can easily set the task or any notifications to the respective employees without having a person to send to employees and employees can apply for leave or reply with task allotted to them. It has been a great pleasure for me to work on this exciting and challenging project. This project proved good for us as it provided practical knowledge of not only programming in JAVA and Oracle database Server Developer working of webbased application, but also about all handling procedure related with Advance and new technology. It also provides knowledge about the latest technology used in developing web enabled application and client server technology that will be great demand in future. This will provide better opportunities and guidance in future in developing projects independently.

12. FUTURE ENHANCEMENT:-

Client solution. **Client solution** is a distributed application, developed to maintain the details of **employees** working in any organization. It maintains the information about the personal details of their **employees**, also the details about the payroll **system** which enable to generate the payslip.

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