A Project Report

On

Android based Application on Health Aware Clinical Consultancy

Submitted in partial fulfilment of the requirement for the award of the degree of

Bachelor of Technology in Computer Science and Engineering



(Established under Galgotias University Uttar Pradesh Act No. 14 of 2011)

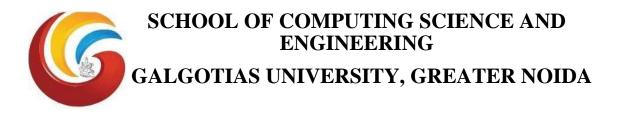
Under The Supervision of Mr.Lalit Sharma Assistant Professor Department of Computer Science and Engineering

Submitted By

18SCSE1010394 – ANUJ VERMA

18SCSE1010536 – ABHISHEK KUMAR UPADHYAY

SCHOOL OF COMPUTING SCIENCE AND ENGINEERING DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING GALGOTIAS UNIVERSITY, GREATER NOIDA, INDIA DECEMBER - 2021



CANDIDATE'S DECLARATION

I/We hereby certify that the work which is being presented in the project, entitled "Android Based Application on Health Aware Clinical Consultancy " in partial fulfilment of the requirements for the award of the BACHELOR OF TECHNOLOGY IN COMPUTER SCIENCE AND ENGINEERING

submitted in the School of Computing Science and Engineering of Galgotias University, Greater Noida, is an original work carried out during the period of JULY-2021 to DECEMBER-2021, under the supervision of Mr.Lalit Sharma, Assistant Professor, Department of Computer Science and Engineering of School of Computing Science and Engineering, Galgotias University, Greater Noida

The matter presented in the project has not been submitted by me/us for the award of any other degree of this or any other places.

18SCSE1010394 – ANUJ VERMA 18SCSE1010536 – ABHISHEK KUMAR UPADHYAY

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

Supervisor

(Mr. Lalit Sharma, Assistant Professor)

CERTIFICATE

The Final Thesis/Project/ Dissertation Viva-Voce examination of 18SCSE1010394 - ANUJ

VERMA, 18SCSE1010536 – ABHISHEK KUMAR UPADHYAY has been held on

and his/her work is recommended for the award of BACHELOR OF

TECHNOLOGY IN COMPUTER SCIENCE AND ENGINEERING.

Signature of Examiner(s)

Signature of Supervisor(s)

Signature of Project Coordinator

Signature of Dean

Date:

Place:

ACKNOWLEDGEMENT

We have taken efforts in this project. However, it would not have been possible without the kind support and help of many individuals. We would like to extend our sincere thanks to all of them.

We would like to thank our project guide Mr. Lalit Sharma for guiding us at every step that we need.

We are also thankful to the teammates who are collectively putting their efforts in order to make this project successful.

We would also like to thank our overall project coordinator for helping us out and giving your valuable time.

ABSTRACT

Consultations usually are sought when practitioners with primary clinical responsibility recognize conditions or situations that are beyond their level of expertise or available resources. One way to maximize prompt, effective consultation and collegial relationships is to have a formal consultation protocol. The level of consultation should be established by the referring practitioner and the consultant. The referring practitioner should request timely consultation, explain the consultation process to the patient, provide the consultant with pertinent information, and continue to coordinate overall care for the patient unless primary clinical responsibility is transferred. The consultant should provide timely consultation, communicate findings and recommendations to the referring practitioner, and discuss continuing care options with the referring practitioner. Physicians have a long history of working together and with other health care professionals to provide efficient and comprehensive care for the patients they serve. Achieving these goals sometimes requires that physicians or other care providers seek consultation from or provide consultation to their colleagues. After registration is done user will get user id and password using these details he can log in to the Software and use all features.

Existing Problem- Here are some of the key health problems: No Remote Access-Health care has been associated with consultation with people within decades. This has become a problem forcing patients to rush to a nearby clinic for treatment. Monsters exist in the World of Health. Problems with Medicare and Medicaid Reimbursement- Their payment structures are very different and need to maintain a systematic management process.

Lack of Supply Chain Management System. Failure and errors in data sharing Incomplete or inefficient exchange of this data can be dangerous in the case of patients in need of urgent or complex treatment. Lack of Online Pharmacy Stores Because medicines sold online have to be based on a doctor, there is a shortage of e-shops that can disrupt the market and can easily bring it to consumers.

Proposed Solution- This creates a reliable experience for medical professionals to provide quality care and advice to patients from far away. Electronic Health Record (EHR) programs

are one of those healthcare technologies. Power Cloud + Data analytics The solution to health care technology in this challenge lies in cloud-based data systems and mobile components. - doctors, healthcare providers, insurance providers, doctors and patients - introduction of an online pharmacy should be on your list. There is great potential in online markets.

Tools and Technology Used- Code will be written with the help of following languages on Eclipse IDE. JAVA, Android Minimum Hardware Requirements; 4GB RAM Dual core ,1.5GB free Space Java Development Kit (JDK) 8 Software Requirements. Operating System : Windows 10/8/7 (32- or 64-bit) Android Studio, Android Emulator

Results and output - Health care output is the combination of activities that result in a completed treatment. Result of health care consultant service is that the client get full support regarding health treatment at single platform.

Future Scope –There is no denying that the healthcare sector has come a long way as technology continues to play a prominent role in the industry. The transformation of digital care into health care is expected to be a bright future and will bring exciting opportunities to the industry for physicians and patients.

Conclusion-The main objective of the project is to develop a Secure Software. I had taken a wide range of literature review in order to achieve all the tasks, where I came to know about some of the products that are existing in the market. I made a detailed research in that path to cover the loop holes that existing systems are facing and to eradicate them in our Software.

Table of Contents

| Title | | Page |
|--|--|---|
| Candidates Declarat Acknowledgement Abstract | ion | No. |
| List of Table List of Figures Acronyms | | |
| Chapter 1 | Introduction | 11 |
| Chapter 2 | 1.1 Modules 1.2 Formulation of Problem 1.3 Purpose And Requirement 1.4 Problem Statement 1.5 Existing System 1.6 Improvement in Existing System Literature Survey/Project Design | 12-16 17 18 18-20 20-27 27 28-31 |
| Chapter 3 | Tools And Technology Used | 32 |
| Chapter 4 | System Implementation And Result Analysis | 33-34 |
| Chapter 5 | Conclusion and Future Scope | 35-37 |
| | 5.1 Conclusion5.2 Future ScopeReference | 35 36 37 |

List of Figures

| S.No. | Caption | Page No. |
|-------|-------------------------------|----------|
| 1 | Sign in/Account creation Page | 12-13 |
| 2 | ER Diagram/Flowchart | 17,34,31 |
| 3 | Graph | 19,29,27 |
| 4 | Code | 19,24,26 |

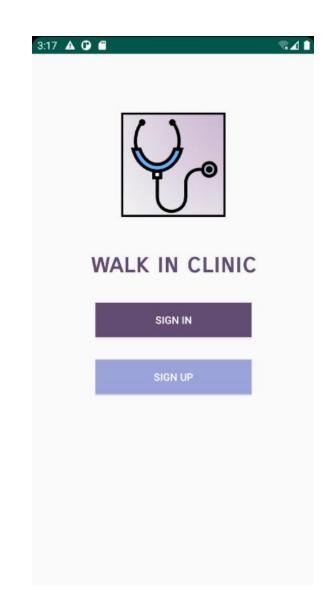
Acronyms

| e-shop | Electronic Shop |
|--------|---------------------------|
| SCM | Supply Chain Management |
| HTML | Hypertext Markup Language |
| CSS | Cascading Style Sheet |
| JDK | Java Development Kit |
| | |
| | |

CHAPTER-1

INTRODUCTION

Consultations usually are sought when practitioners with primary clinical responsibility recognize conditions or situations that are beyond their level of expertise or available resources. One way to maximize prompt, effective consultation and collegial relationships is to have a formal consultation protocol. The level of consultation should be established by the referring practitioner and the consultant. The referring practitioner should request timely consultation, explain the consultation process to the patient, provide the consultant with pertinent information, and continue to coordinate overall care for the patient unless primary clinical responsibility is transferred. The consultant should provide timely consultation, communicate findings and recommendations to the referring practitioner, and discuss continuing care options with the referring practitioner. Physicians have a long history of working together and with other health care professionals to provide efficient and comprehensive care for the patients they serve. Achieving these goals sometimes requires that physicians or other care providers seek consultation from or provide consultation to their colleagues. It's no secret that the healthcare industry is complex. With hundreds of laws, policies, and regulations, the wide range of potential professions and jobs, and daily developments in diagnosis, treatment, and medication, healthcare organizations have a lot to keep track of — and doing so thoroughly and professionally is absolutely vital to their success and the health of their patients. For example, a mistake in advertising can be detrimental to a company's image, but a mistake in healthcare can result in serious injury or illness — and that does more than impact a company's image. In fact, it can derail a healthcare company almost immediately and put them out of business. That's why healthcare consultants are so valuable. Although becoming a healthcare consultant takes years of education, time, and skill development, it's a position that's crucial to the success of healthcare organizations across the globe.



Modules: Consultant Module (user 1): After registration is done user will get user id and password using these details he can log in to the Software and use all features. There are options for users to change password. User can view the list of available consultancies open and close.it shown in the software.

| - ₩4 🗎 |
|--------|
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |

// Top-level build file where you can add configuration options common to all sub-projects/modules.

```
buildscript {
    ext.kotlin_version = '1.3.41'
    repositories {
        google()
        jcenter()
    }
    dependencies {
        classpath 'com.android.tools.build:gradle:3.5.2'
        classpath 'org.jetbrains.kotlin:kotlin-gradle-plugin:$kotlin_version"
        classpath 'com.google.gms:google-services:4.2.0'
        // NOTE: Do not place your application dependencies here; they belong
        // in the individual module build.gradle files
    }
}
```

```
allprojects {
    repositories {
        google()
        jcenter()
    }
}
task clean(type: Delete) {
    delete rootProject.buildDir
}
```

Patient Module (user 2): Under user1 we can view a list of available open and close consultancy. with open and close status. he can select the consultancy and send message and make the call after that after he can take appointment from the user1. User will have setting options for changing font and colour. User can enter a message and use the send button to send a message which is displayed under the upper window.

#!/usr/bin/env sh

Gradle start up script for UN*X
##

```
# Attempt to set APP_HOME
# Resolve links: $0 may be a link
PRG="$0"
# Need this for relative symlinks.
while [ -h "$PRG" ]; do
  ls=`ls -ld "$PRG"`
  link=`expr "$ls" : '.*-> \(.*\)$'`
  if expr "link" : '/.*' > /dev/null; then
    PRG="$link"
  else
    PRG=`dirname "$PRG"`"/$link"
  fi
done
SAVED="`pwd`"
cd "`dirname \"$PRG\"`/" >/dev/null
APP_HOME="`pwd -P`"
cd "$SAVED" >/dev/null
```

```
APP_NAME="Gradle"
APP_BASE_NAME=`basename "$0"`
```

Add default JVM options here. You can also use JAVA_OPTS and GRADLE_OPTS to pass JVM options to this script. DEFAULT_JVM_OPTS=""

Use the maximum available, or set MAX_FD != -1 to use that value. MAX_FD="maximum"

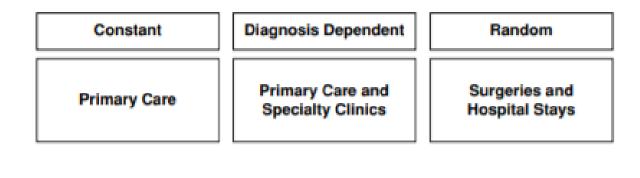
```
warn () {
  echo "$*"
}
die () {
  echo
  echo "$*"
  echo
  exit 1
}
# OS specific support (must be 'true' or 'false').
cygwin=false
msys=false
darwin=false
nonstop=false
case "`uname`" in
 CYGWIN*)
  cygwin=true
  ;;
 Darwin*)
  darwin=true
  ;;
 MINGW*)
  msys=true
  ;;
 NONSTOP*)
  nonstop=true
  ;;
esac
```

Consultation is often required when physicians with primary medical responsibility see conditions or conditions beyond their professional level or the resources available. One way to increase the speed, efficiency and co-operation of a partnership is to have an official consultation protocol. The level of consultation should be established by the consulting physician and the consultant. The supervising physician should request timely consultation, explain the patient's consultation process, provide the consultant with the appropriate information, and continue to coordinate the patient's full care unless the primary responsibility is delegated. The consultant should provide timely consultation, discuss findings and recommendations to the referral physician, and discuss additional care options with the attending physician. Physicians have a long history of working with other health professionals to provide effective and complete care to the patients they provide. the healthcare providers are so important, it is an important factor in the success of health organizations around the world. The healthcare represents about 15% of them total in the costs increase at the rate that this value public funds needed to fund clinical service, at the moment stands at 45% of the total cost of health care, which is expected twice in 2050.

$CLASSPATH = \$APP_HOME/gradle/wrapper/gradle-wrapper.jar$

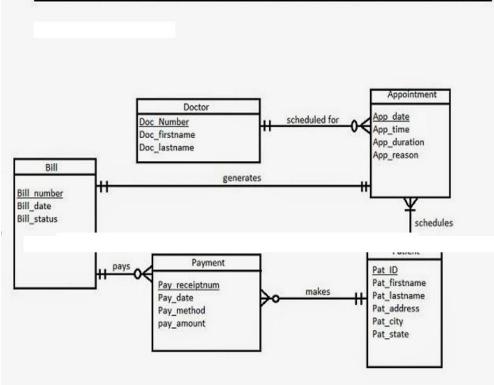
```
# Determine the Java command to use to start the JVM.
if [ -n "$JAVA_HOME" ] ; then
    if [ -x "$JAVA_HOME/jre/sh/java" ] ; then
        # IBM's JDK on AIX uses strange locations for the executables
        JAVACMD="$JAVA_HOME/jre/sh/java"
    else
        JAVACMD="$JAVA_HOME/bin/java"
    fi
    if [ ! -x "$JAVACMD" ] ; then
        die "ERROR: JAVA_HOME is set to an invalid directory: $JAVA_HOME
```

The information hidden in the health care data is then used to make effective decisions for patients, government, and NGOs. In addition, the health care sector needs to be improved through the use of informational healthcare information. The use of machine learning algorithms is relevant in the field of health care. Medical institutions need to improve to make better decisions about patient diagnosis and treatment options.



Formulation of Problem

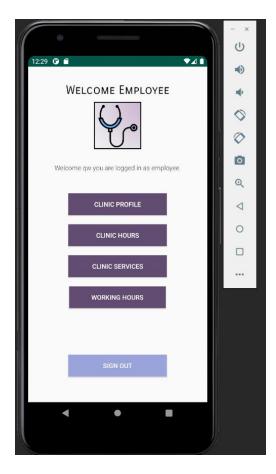
Problem formulation is methodological approach that individually identifies all risk assessment and consider the purpose of the assessment the size and depth of the required analysis, method of analysis, available resources and outcome and the overall risk management policy. The fact that students could recognize the disease when presented with a formulated problem but had more difficulty when presented with the original complex case indicates that knowledge of the clinical features may be necessary but not sufficient for problem formulation. Our hypothesis is that problem formulation represents a distinct ability.



ER Diagram for Hospital Management System (Patient Detail)

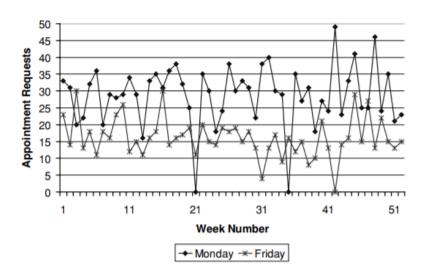
PURPOSE AND REQUIREMENT

The purpose of Health aware clinical consultancy is to provide the platform for booking appointment to the clinic or hospital for their Treatment of possible disease. It is a platform to provide service with an ease so that people do not have to visit hospitals and wait long standing in a queue for taking appointment to meet the doctor. they can simply tell us their symptoms and Availability of the Doctors, Clinic timing to visit will help them to know what all possible disease they might have.



Problem Statement

Due to COVID-19, our doctors are doing a terrific job by helping all of us 24*7 and our hospitals are also quite equipped. Senior citizens and infants are advised to stay at home as their immune system is weak comparatively and they might be at high risk. Since, patients suffering from corona are being treated on priority basis, it is more likely for the rest of the public to stay at home and be healthy and safe.



Here are some of the key health problems:

No Remote Access-Health care has been associated with consultation with people within decades. This has become a problem forcing patients to rush to a nearby clinic for treatment. Monsters exist in the World of Health. Problems with Medicare and Medicaid Reimbursement-Their payment structures are very different and need to maintain a systematic management process.

Lack of Supply Chain Management System. - Failure and errors in data sharing Incomplete or inefficient exchange of this data can be dangerous in the case of patients in need of urgent or complex treatment.

Lack of Online Pharmacy Stores- Because medicines sold online have to be based on a doctor, there is a shortage of e-shops that can disrupt the market and can easily bring it to consumers

EXISTING SYSTEM

There are a number of problems that the health care industry faces on a daily basis. However, technology can help you stay on top of the curve and contribute to the placement among top healthcare providers.

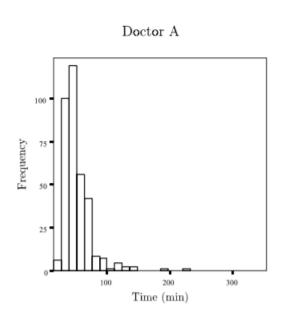
Here are some of the key health problems:

No Remote Access

Health care has been associated with consultation with people within decades. This has become a problem forcing patients to rush to a nearby clinic for treatment.

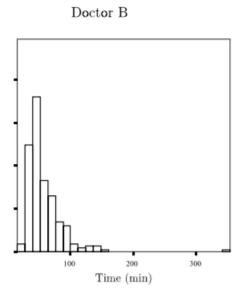
Now, the explosion of COVID and the ground lock makes it even worse. The result of the infection was people from the four walls of their homes.

The need for remote access or virtual consultation is a need for an hour, which needs to be taken care of in order to stay one step ahead in the race to embrace technology.



Problems with Medicare and Medicaid Reimbursement

Medicare and Medicaid are government health care programs that provide for patients. Their payment structures are very different and need to maintain a systematic management process. The procedures for introducing and receiving Medicare and Medicaid are very different and are an additional function of the to-do list for health care professionals. Regulations also require them to maintain and record patient records in the form of services provided.



Whenever medical treatment is available under Medicare, physicians are required to complete prescribed prescription forms as proof that the patient has, in effect, received medical care. Laws and regulations have forced health engineers to go to great lengths to compensate for

their losses, adding to the pressure.

Please set the JAVA_HOME variable in your environment to match the location of your Java installation."

fi else JAVACMD="java" which java >/dev/null 2>&1 || die "ERROR: JAVA_HOME is not set and no 'java' command could be found in your PATH. Please set the JAVA_HOME variable in your environment to match the location of your Java installation." fi # Increase the maximum file descriptors if we can. if ["\$cygwin" = "false" -a "\$darwin" = "false" -a "\$nonstop" = "false"]; then MAX_FD_LIMIT=`ulimit -H -n` if [\$? -eq 0]; then if ["\$MAX_FD" = "maximum" -o "\$MAX_FD" = "max"]; then MAX_FD="\$MAX_FD_LIMIT" fi ulimit -n \$MAX_FD if [\$? -ne 0] ; then warn "Could not set maximum file descriptor limit: \$MAX_FD" fi else warn "Could not query maximum file descriptor limit: \$MAX_FD_LIMIT" fi fi # For Darwin, add options to specify how the application appears in the dock if \$darwin; then GRADLE_OPTS="\$GRADLE_OPTS \"-\"-Xdock:name=\$APP_NAME\" Xdock:icon=\$APP_HOME/media/gradle.icns\"" fi # For Cygwin, switch paths to Windows format before running java if \$cygwin; then APP_HOME=`cygpath --path --mixed "\$APP_HOME"` CLASSPATH=`cygpath --path --mixed "\$CLASSPATH"` JAVACMD=`cygpath --unix "\$JAVACMD"`

Lack of Supply Chain Management System

As patients, we never thought about the services behind the health care services. But they form the backbone of the industry. Effective storage practices ensure uninterrupted health services. Managing these resources is still a daunting task. While it may sound like a problem for the supply chain supply, it creates problems such as improper medical and equipment installation or drug shortages. In the past, that is, the end of the doctor, it causes malfunction; ultimately patients, frustration and, of course, danger to their health.

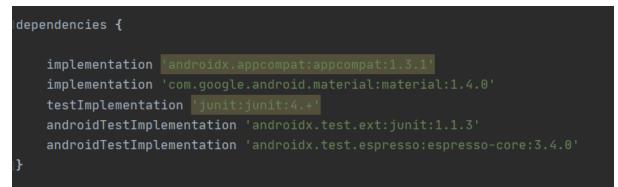
Traditional procurement management is often wasteful and inefficient. It leads to wasteful and wasteful spending, improper delivery of equipment or drugs, and damage caused to patients by all that money in the huge financial loss of health services.

```
# We build the pattern for arguments to be converted via cygpath
  ROOTDIRSRAW=`find -L / -maxdepth 1 -mindepth 1 -type d 2>/dev/null`
  SEP=""
  for dir in $ROOTDIRSRAW; do
    ROOTDIRS="$ROOTDIRS$SEP$dir"
    SEP="|"
  done
  OURCYGPATTERN="(^($ROOTDIRS))"
  # Add a user-defined pattern to the cygpath arguments
  if [ "$GRADLE CYGPATTERN" != "" ]; then
    OURCYGPATTERN="$OURCYGPATTERN|($GRADLE_CYGPATTERN)"
  fi
  # Now convert the arguments - kludge to limit ourselves to /bin/sh
  i=0
  for arg in "$@"; do
    CHECK=`echo "$arg"|egrep -c "$OURCYGPATTERN" -`
    CHECK2=`echo "$arg"|egrep -c "^-"`
                                                            ### Determine if an option
    if [ $CHECK -ne 0 ] && [ $CHECK2 -eq 0 ]; then
                                                                 ### Added a condition
       eval `echo args$i`=`cygpath --path --ignore --mixed "$arg"`
    else
       eval `echo args$i`="\"$arg\""
    fi
    i=$((i+1))
  done
  case $i in
    (0) set -- ;;
    (1) set -- "$args0" ;;
    (2) set -- "$args0" "$args1" ;;
    (3) set -- "$args0" "$args1" "$args2" ;;
    (4) set -- "$args0" "$args1" "$args2" "$args3" ;;
    (5) set -- "$args0" "$args1" "$args2" "$args3" "$args4" ;;
    (6) set -- "$args0" "$args1" "$args2" "$args3" "$args4" "$args5" ;;
    (7) set -- "$args0" "$args1" "$args2" "$args3" "$args4" "$args5" "$args6" ;;
    (8) set -- "$args0" "$args1" "$args2" "$args3" "$args4" "$args5" "$args6" "$args7" ;;
    (9) set -- "$args0" "$args1" "$args2" "$args3" "$args4" "$args5" "$args6" "$args6" "$args7" "$args8" ;;
  esac
fi
```

```
# Escape application args
save () {
  for i do printf \$ s | n "$i" | sed "s/'/" | $; 1s/^/'; $s/$/" | $| ', some
  echo " "
}
APP_ARGS=$(save "$@")
# Collect all arguments for the java command, following the shell quoting and substitution rules
                                                                                            "\"-
                      $DEFAULT JVM OPTS
                                                   $JAVA OPTS
                                                                      $GRADLE OPTS
eval
        set
Dorg.gradle.appname=$APP_BASE_NAME\""
                                                       -classpath
                                                                            "\"$CLASSPATH\""
org.gradle.wrapper.GradleWrapperMain "$APP_ARGS"
# by default we should be in the correct project dir, but when run from Finder on Mac, the cwd is wrong
if [ "$(uname)" = "Darwin" ] && [ "$HOME" = "$PWD" ]; then
 cd "$(dirname "$0")"
fi
```

```
exec "$JAVACMD" "$@"
```

Lack of supply, lost inventory, and measures under stargazing with regard to diminishing, all play a role in the fact that hospitals are centers of wasteful work without a proper supply chain management system.



Managing large amounts of patient-related data

Patient-related data is one of the strongest factors in health care. With each new addition to the patient database, existing data sets become larger.

As a result, it becomes even more difficult to manage this data. No matter how we expect the existing traditional infrastructure to manage and secure data, it is simply unreasonable expectations.

Storing and retrieving this patient data, where necessary, is a challenge that hospitals need to address. Overexposure to data and maladministration often lead to poor evaluation,

compromise on data security, improper treatment, delay, and failure to keep up with the everchanging or reversible patient status, etc. The consequences can be disastrous for both physicians and as patients.

Lack of Online Pharmacy Stores

The proliferation of eCommerce stores across the web has changed people's shopping habits. They want anything and everything available online. However, the lack of online medical stores is a problem that makes the industry fragile compared to other sectors.

Because medicines sold online have to be based on a doctor, there is a shortage of e-shops that can disrupt the market and can easily bring it to consumers. package com.example.final_project;

import android.provider.ContactsContract;

import java.io.Serializable; import java.util.ArrayList;

/**

* Used strictly for saving user data to the database
*/

public class DataBaseService implements Serializable {
 private String _name;
 private Category _category;
 private String _id;
 private ServiceRole _role;

public DataBaseService(String id, String name, ServiceRole role){
 this._name = name;
 this._id = id;

```
this._role = role;
}
public DataBaseService(String id, String name, ServiceRole role, Category category){
  this._name = name;
  this._category = category;
  this._role = role;
  this._id = id;
}
public void print(){
  System.out.println("Name: " + _name + ", Role: " + _role + ", ID: " + _id);
}
public DataBaseService(){}
public void setName(String name){_name = name;}
public String getName() {return _name;}
public void setId(String id){_id = id;}
public String getId(){return _id;}
public void setCategory(Category category){this._category = category;}
public Category getCategory(){return _category;}
public void setRole(ServiceRole role){this._role = role;}
public ServiceRole getRole(){return this._role;}
```

}

IMPROVEMENT IN EXISTING SYSTEM

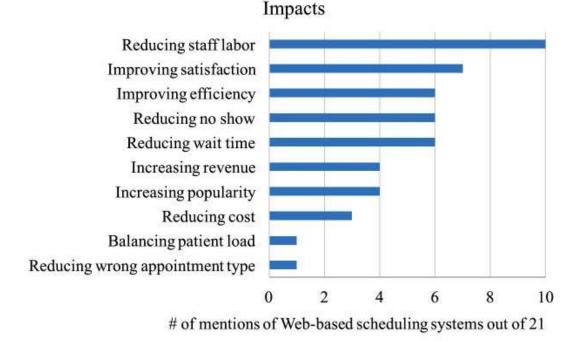
• Accessibility: -It provides a secure and independent channel that allows all users for appointment and other details for staff equally. Increased access for overseas citizens and for people with difficulty in mobility or reduced mobility. This also has a significant impact on the user behavior.

• Efficiency: - Reduced costs on planning for physical presence of patient and expenditure greatly significantly increases the efficiency of clinic management.

• **Preliminary information:** - The user get information before hand or before going to clinic which provides accurate and quick information about the doctor presence.

• Security: - When we talk about security, we mean the variety of security measures used to ensure that the user feel secure about their personal information .to provide all security guarantees it has login id and password.

• **Reliability**: The mathematical processes incorporated into technology allow for the participation of independent observers who prove that user and their critical information manipulation are avoided. The agreements of technology encryption are the basis for the security, privacy and auditing



26 | Page

CHAPTER - 2

Literature Survey/Project Design

Communication is a way for people to send each other messages. It started from the beginning of human creation. Remote communication began in the early 1800's with the advent of television, telephone and telephone. It is interesting to note that telecommunications is emerging as a rapidly evolving technology, from fixed line to wireless cell phone, from voice telephony to data transmission. The advent of computer networks and communication technologies has the same goal of allowing people to communicate.

```
// Top-level build file where you can add configuration options common to all sub-projects/modules.

(beildscript {

    repositories {

        google()

        mavenCentral()

    }

    dependencies {

        classpath "com.android.tools.build:gradle:4.2.2"

        // NOTE: Do not place your application dependencies here; they belong

        // in the individual module build.gradle files

    }

    repositories {

        google()

        mavenCentral()

        jcenter() // Warning: this repository is going to shut down soon

    }

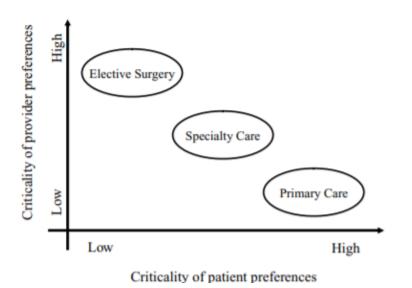
}

task clean(type: Delete) {

        delete rootProject.buildDir

}
```

Throughout this time, many attempts have been made to integrate the device into one and thus unselect the resources. It is a type of online chat network that is easily differentiated and accessible to users who want to need time for installation and learn to use special chat software. It can be a type of chat software that will help you connect with friends using the Internet. This application has AES encryption. In this Software project, there is only one business user. User needs to register and get details to log in to the pipebuzones



Opportunities: The opportunities available to private healthcare providers are many. As health care organizations continue to be challenged by new regulations and guidelines, Clinical Operation counselors are trusted counselors who provide insight into the ongoing health system. Health aware has the option of acting as an independent consultant and starting your own company or being hired by an existing consulting company. Opportunities are available for a variety of health care options such as major health plans, long-term care facilities, ambulance care settings and more.

package com.example.final_project;

import androidx.annotation.NonNull; import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent; import android.os.Bundle; import android.view.View; import android.widget.AdapterView; import android.widget.Button; import android.widget.ListView; import android.widget.Toast;

import com.google.firebase.database.DataSnapshot; import com.google.firebase.database.DatabaseError; import com.google.firebase.database.DatabaseReference; import com.google.firebase.database.FirebaseDatabase; import com.google.firebase.database.ValueEventListener;

import java.util.ArrayList;

public class AddServices extends AppCompatActivity {

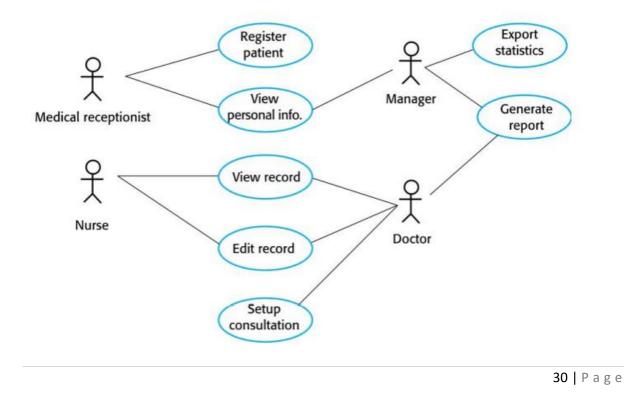
private Employee activeUser;

private Button backButton; private Button servicesButton; private ArrayList<DataBaseService> services; private ArrayList<DataBaseUser> users; private ArrayList<DataBaseService>allServices; databaseServices private static DatabaseReference = FirebaseDatabase.getInstance().getReference("services"); ListView listViewServices; @Override protected void onCreate(Bundle savedInstanceState) { super.onCreate(savedInstanceState); setContentView(R.layout.activity_add_services); Intent i = getIntent(); activeUser = (Employee) i.getSerializableExtra("user"); allServices = (ArrayList<DataBaseService>) i.getSerializableExtra("services"); services = new ArrayList<>(); users = (ArrayList<DataBaseUser>) i.getSerializableExtra("users"); listViewServices = (ListView)findViewById(R.id.serviceList); listViewServices.setOnItemLongClickListener(new AdapterView.OnItemLongClickListener() { @Override public boolean onItemLongClick(AdapterView<?> adapterView, View view, int i, long l) { DataBaseService service = services.get(i); if(!activeUser.getWalkInClinic().getServiceIds().contains(service.getId())){ activeUser.getWalkInClinic().addService(service.getId()); activeUser.updateWalkinClinic(); Toast.makeText(getApplicationContext(),"Service Added". Toast.LENGTH_LONG).show(); openUserServices(); }else{ Toast.makeText(getApplicationContext(), "Service is Already Added", Toast.LENGTH_LONG).show(); } return true; } }); backButton = (Button) findViewById(R.id.backBtn); backButton.setOnClickListener(new View.OnClickListener() { @Override public void onClick(View v) { openUserServices(); } }); databaseServices.addValueEventListener(new ValueEventListener() { @Override public void onDataChange(@NonNull DataSnapshot dataSnapshot) { services.clear();

```
for(DataSnapshot postSnapshot : dataSnapshot.getChildren()) {
          DataBaseService service = postSnapshot.getValue(DataBaseService.class);
          if(!activeUser.getWalkInClinic().getServiceIds().contains(service.getId())){
            services.add(service);
          }
       ł
       ServiceList serviceAdapter = new ServiceList(AddServices.this, services);
       listViewServices.setAdapter(serviceAdapter);
     }
     @Override
     public void onCancelled(@NonNull DatabaseError databaseError) {
     }
  });
}
public void openUserServices() {
  Intent intent = new Intent(this, Services.class);
  intent.putExtra("user", activeUser);
  intent.putExtra("users", users);
  intent.putExtra("services", allServices);
  startActivity(intent);
}
```

}

Possible earnings: Compensation varies from private healthcare providers and is directly related to the scope of the project, the size of the organization, and the time and visits provided for the project.



<u>CHAPTER - 3</u> TOOLS AND TECHNOLOGY USED

Code will be written with following programming languages on Eclipse IDE. JAVA- Java is a highly functional, classroom-based language, designed to rely on as few usages as possible. It is a programming language that aims to achieve common goals that aims to allow programmers to write once, run anywhere (WORA), which means that integrated Java code can be applied to all Java platforms without the need for retrieval.

Android Minimum Hardware Requirements;

4GB RAM Dual core, 1.5GB free Space

Java Development Kit (JDK) 8- JDK also has a complete Java Runtime Environment, often referred to as private operating time, because it is separated from the standard "JRE" and has additional content. It has a state-of-the-art Java machine and all standard libraries available in the production area, as well as additional libraries that are only used by developers, such as international libraries and IDL libraries.

System Requirements

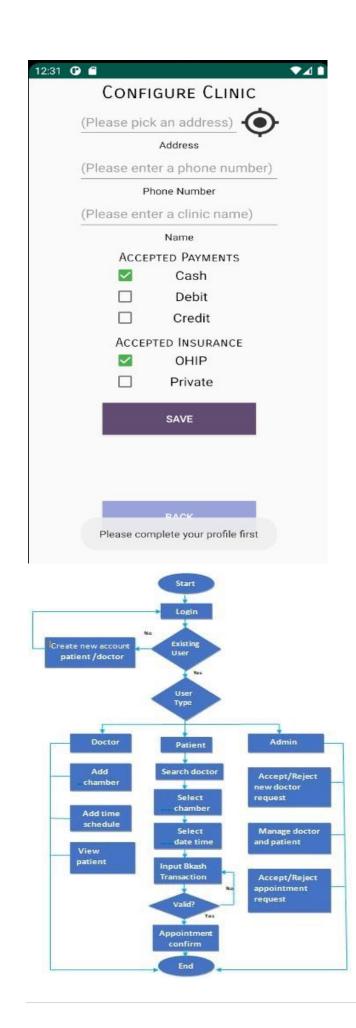
Operating System: Windows 11/10/8/7 Android Studio A main feature of Android Studio is the lack of automatic backup feature. The features are provided in the stable version of Gradle-built for Android and fix recording tools for functionality, usability version compatibility and other issues. Pro Guard integration with the ability to sign up the Witches app based on the template to create custom designs and custom Android rich layout allows users to drag and drop features, preview options in multi-screen layout Android Wear app architecture built in support within the Google Cloud Platform, which allows with Cloud Messaging (formerly 'former' Google Cloud and Google App Engine Android Visual Device to launch and configure applications in the Android studio.

Android Emulator-Many actors simply mimic the design of a computer hardware - if the operating system software is required for the software you want, it must be provided with it . Both OS and software will be translated by a template, rather than a standard hardware. In addition to this fixed binary language translator, other hardware should also be provided visually; for example, if writing specific memory location affect that is displayed on the screen, this will need to be copied.

CHAPTER - 4

SYSTEM IMPLEMENTATION AND RESULT ANALYSIS

System Implementation and Unit Testing This chapter describes the implementation of the health aware clinical consultancy for the system requirements document (SRS). Software Implementation and Unit Testing Section software is performed based on section configuration. Administrator dashboard is made with a desktop application framework that extends HTML CSS and JavaScript. The software is built and integrated with the windows application. Health aware clinical consultancy is an Android application that provides new appointment technology using mobile phones. We live in a world of many things. We measure everything according to their thinking, energy and quality. Software should be designed to be easy to use at the moment. Currently in all sectors there is a need for software to reduce workload and save time but too much and different software, because manual work can be catastrophic. An appointment system is a type of application that gives the user a platform to book their appointment for health-related problem or for treatment for their product only to sign up users may be able to use the app. Later _it may be-it will come to institutions of higher learning etc. Information about product, users and staff statistics will be stored.



33 | Page

CONCLUSIONS

The main objective of the project is to develop Secure Software. I had taken a lot of book reviews to complete all the tasks, where I got to know some of the products available on the market. I did a thorough research on that method to cover the loop holes that existing systems face and to eliminate them from our Software. Some of the benefits are lower in cost, faster result, easier access, accuracy and lower risk of human and machine errors. In this research paper, we summarize the key problem in design once to manage patient appointments in health center.

This was desired to determine the degree of difficulty

located at a health care facility. an ongoing and volatile situation of the most important demand and the need for recovery from deviation. In addition, different approaches to planning the delivery of health services, too as technological-led changes in practice routines, provide new one's opportunities in the area of construction of a health services network.

FUTURE SCOPE

Our project is specifically designed for tough situations like COVID wherein people avoid physical contact and visiting areas with huge gathering. In such situations, there is an urge for people who are not well to visit doctors/hospitals for their well-being and unwillingly, will have to join huge gathering where every other person in gathering might be infected with one virus or the other.

Here comes the picture of our project which will serve the purpose without the people in need having to join any such gathering. Our project will ask about the symptoms that the patient is suffering from, it will diagnose based on the data set we have collected from different research papers, Government websites and many more. It will help them know what disease they might have so that they can take proper medication accordingly.

REFERENCES

[1]. Cohn, Steven L. (2003). "Role of medical advisor". North American Medical Clinics.

[2]. Partin, Daniel K Strand, Jacob Common Challenges in Palliative Medication.

[3]."ATA Tele dermatology SIG". American Telemedicine Association. Archived from the original.

[4]. FDA Software Verification Guidelines and Why You Should Verify Software Anyway ".

[5]. Gall, John E Norwood, Management, National Health Services Research Center.

[6]. Shekel, Paul; Morton, Sally C Technology Evidence Reports / Technical Testing. Rockville, MD: Health and Quality Research Agency.

[7]. Ash J. S., Sittig D. "The significance of the unintended co associated with a computer order provider entry"

[8]. Sidrov J "Not really: Electronic health record and the prospect of reducing health care costs". Health News.

[9]. Freudeheim, Milt "Rise and Fall of Medical Records"

10]. https://data.gov.in/search/site?query=health.

[11]. www.irjet.net

[12]. G. Saranya, A. Pravin. "A comprehensive study on disease risk predictions in machine learning", International Journal of Electrical and Computer Engineering (IJECE), 2020.

[13]. aaaproductreviews.com.

[14]. www.ijcaonline.org.

[15]. ieeexplore.ieee.org.

37 | Page