Women Safety App

Thesis submitted in partial fulfilment

of the requirements of the degree of

Bachelor of Computer Application

in

Mobile Application And Cloud Technology

by

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AJEENKYA
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THE INNOVATION UNIVERSITY

May 2023

School of Engineering

Ajeenkya D Y Patil University, Pune

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11 May 2023

CERTIFICATE

This is to certify that the dissertation entitled **"Women Safety App"** is a bonafide work of "**Aniket Sonawane(2020-B-09122001A), Tushar Mahajan"(2020-B-12102201)** submitted to the School of Engineering, Ajeenkya D Y Patil University, Pune in partial fulfillment of the requirement for the award of the degree of **"Bachelor of Computer Application"**.

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This is to certify that the dissertation entitled **"Women Safety App"** submitted by **Aniket Sonawane (2020-B-09122001A),Tushar Mahajan (2020-B-12102001)** is a record of original work carried out by him/her under my supervision and guidance in partial fulfillment of the requirements of the degree of **Bachelor of Computer Application** at **School of Engineering**, **Ajeenkya DY Patil University, Pune, Maharashtra-412105**. Neither this dissertation nor any part of it has been submitted earlier for any degree or diploma to any institute or university in India or abroad.

Prof. Amit Nichat

Supervisor

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School of Engineering

Declaration of Originality

We **Aniket Sonawane (2020-B-09122001A)** And **Tushar Mahajan (2020-B-12102001)** hereby declare that this dissertation entitled "**Women Safety App"** presents my original work carried out as a bachelor student of School of Engineering, Ajeenkya D Y Patil University, Pune, Maharashtra. To the best of my knowledge, this dissertation contains no material previously published or written by another person, nor any material presented by me for the award of any degree or diploma of Ajeenkya D Y Patil University, Pune or any other institution. Any contribution made to this research by others, with whom I have worked at Ajeenkya D Y Patil University, Pune or elsewhere, is explicitly acknowledged in the dissertation. Works of other authors cited in this dissertation have been duly acknowledged under the sections "Reference" or "Bibliography". I also declare that I have adhered to all principles of academic honesty and integrity and have not misrepresented or fabricated or falsified any idea/data/fact/source in my submission.

I am fully aware that in case of any non-compliance detected in future, the Academic Council of Ajeenkya D Y Patil University, Pune may withdraw the degree awarded to me on the basis of the present dissertation.

Date: 11 May 2023

Place: Lohegaon, Pune

Aniket Sonawane **Tushar Mahajan**

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I would like to say that it has indeed been a fulfilling experience for working out this Project.

Abstract

The use of advanced cells furnished with GPS route unit have expanded quickly from 3% to over 20% in the beyond five years. Thus, a Smart Phone can be utilized proficiently for individual wellbeing or different other security purposes particularly for ladies. This application can be enacted by a solitary snap when the client feels she is at serious risk. This application reports the client's area to the enrolled contacts for like clockwork as message. while she shaking the cell phone it naturally send sms.

In this way, it behaves like a sentinel following behind the individual till the client feels she is protected. This paper presents examination a one of a kind element of send sms, area following data by means of SMS assists with finding the area of the casualty rapidly and can be safeguarded securely. This application intends to guarantee ladies wellbeing. This is accomplished by tending to the conditions that compromise the wellbeing of ladies in the present day and age. This application guarantees ladies are not placed into such circumstances through different elements presented by our framework.

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CHAPTER 1

INTRODUCTION

1.1 OVERVIEW

Ladies' security is a major concern which has been the main subject till date. Whether at home, outside the house, or at work, ladies' wellbeing is vital. Barely any wrongdoings against ladies, particularly assault cases, were very repulsive and unnerving. Indeed, even today, most of ladies of any age keep on encountering brutality, homegrown maltreatment, and assault. Ladies ought to normally travel late around evening time, so remaining cautious and safe is significant. There are free security applications for ladies that can help them in remaining protected, regardless of the way that the public authority is playing it safe for their assurance. These days, most of female cell phone clients take their gadgets about, subsequently it is fundamental to have somewhere around one individual security application stacked. Such a security application for ladies will without a doubt help — or hurt — in some way. Anybody with a PDA that has this easy to use application stacked can get to it. We need to make it as simple and speedy as feasible for you to reach out to the neighborhood help. In this framework, the client should enter five contact numbers. In case of a crisis, the framework will send a SMS to one of the numbers entered with the area by moving the telephone all over multiple times. Additionally find the local police headquarters. This is the best apparatus for everybody since it has capabilities for both real crises and day to day wellbeing..

Fig- 1.1 Women harassed in bus

A table of case filed in police station for woman harassment is given below.

Table 1.1: Case filed about women harassment.

Year	Number of case
2019	500++
2018	15912
2017	15219
2016	16730
2015	19486
2014	19613

Table 1.1

1.2 PURPOSE OF THE PROJECT

Making an Android application for ladies' security is the objective of this venture. The application attempts to cause to notice a wellbeing issue for ladies. It's vital to be watchful and safe while going around evening time for women. There are free wellbeing applications for ladies that could be useful to them keep safer even while the public authority is avoiding potential risk to guarantee their security.

1.3 MOTIVATION

In the cutting edge world, it is hazardous to travel solo around evening time, particularly for ladies; it will be savvy to go alone since ladies miss the mark on actual strength of guys and can't shield themselves against them. Finding and utilizing administrations to get you out of hazardous conditions is a shrewd way to deal with bring down your gamble of being a casualty of savage wrongdoing (counting theft, rape, assault, and homegrown maltreatment). These applications can decrease risk and give help when we really want it, whether we are in a crisis circumstance or become isolated from buddies around evening time and are uncertain of how to return home. In this review, we depict a security portable application for Android-fueled cell phones.

1.4 OBJECTIVE

Our venture's objectives are plainly communicated by its "Ladies Security" moniker. The world has gotten dependent on innovation. Consistently, new advancements are made. Thus, one of our key objectives is to utilize innovation to furnish ladies with security. With innovation, you don't for even a moment need to holler for help — all you want is a cell phone in your grasp to rapidly find assistance. We plan to make a superior and more easy to use UI on the grounds that there are a few equivalent applications on the market. The principal objective of this undertaking is to make a framework that can speak with and decide how to tell companions or family when a young woman/woman in danger for speedy assistance.

CHAPTER 2

LITERATURE SURVEY

We took a gander at different market-prepared applications for ladies' security as a component of our writing survey. The objective is to analyze how these applications capability and decide how they may be improved and separated. The accompanying Android applications for ladies' wellbeing have been demonstrated to be powerful and give a sensibly comparative degree of administration.

2.1 EXISTING SYSTEM

A)WOMEN'S SECURITY:- The vital elements of the application are: the client needs to save a few subtleties. These subtleties include: Email address and secret key of the client, Email address and portable number of the beneficiary and an instant message. Then, at that point, application is stacked as a "gadget", so that when the client contacts the application, it cautions the beneficiary. One more key component of application is that it records the voice of environmental factors for around 45 seconds and this recorded voice, instant message containing area directions of the client is shipped off the beneficiary portable number.

B)POLICE NEARBY:- The police close by scanner android application is worked with the plan to interface residents and understudies to their closest police headquarters city wise at a single tick and will allow the local area to turn out to be additional elaborate right from your Android PDAs. Any nearby, state, or school, School police division as well as other policing can utilize Police scanner Android Application to give you upgraded administration and get better correspondence. Police close by application is allowed to download without information exchange.

C)SCREAM ALARM:- Shout Alert, an android application. By clicking this application, it produces an exceptionally high-volume shout in the midst of misery when the lungs of an individual flop in shouting in a difficult situation. The produced shout is in a lady's voice is seriously useful in putting the potential solid miscreants down. The main work done by this

application is the point at which the individual pushes or contacts the application, the telephone shouts noisily with a lady's voice. [6] The applications referenced above work on various stages, some applications work on Android, Windows, IOS however some main in android or windows. Be that as it may, this application Security Alert is planned exclusively for android stage yet in future working over Windows and IOS platforms can be expanded. Android stage is open source and was assembled involving open Linux Part to empower the designers in making entrancing versatile applications that will make the most of the handset offers. A Virtual Machine is planned and used by Android to enhance the memory and equipment assets of versatile climate. Android can be developed satisfactorily to blend new state of the art advances as they arise. Subsequently, android stage will constantly keep on being advanced as an engineer local area to fabricate imaginative applications for versatile climate.

The greater office will be given to the client who will utilize it, so make a table and contrast some applications with figure out which choice should be there in our applications.

Table 2.1: Comparative table of apps

Apps name	GPS	Low power consumption	Work fast	Free app	Risk free	Available in play store
MSMR Women safety app	✓	✗	✓	✓	✓	✓
My safetipin	✓	✓	✓	✓	✓	✓
SOS App	✓	✗	✗	✓	✓	✓
Watch over me	✓	✓	✗	✗	✓	✗
Secure her app	✓	✗	✗	✗	✓	✗
Safety	✓	✓	✓	✓	✓	✗

Table 2.1

2.2 LIMITATIONS OF EXISTING SYSTEM

Briefly summing up the impediments of the above executions:

- Every one of the current frameworks should be associated with the GPRS administration to work appropriately, consequently can't be utilized during crisis on the off chance that there is no web network.
- Checking was dreary.
- Mishap in showing up rate.
- This framework can't keep up with the police headquarters data.
- The current frameworks are of wired frameworks and the greater part of them are disturbing frameworks which is regular and can't convey effectively.
- The weaknesses of utilizing these applications are they just send the alarm messages to the saved contacts.
- In light of past frameworks there is less potential outcomes of conquered the hazardous circumstances of ladies.
- Past applications likewise have gps global positioning framework for to follow the ladies area yet it has not explicit reach.
- Existing framework don't have the element that is all there is to it don't sends the alarm message to local cells.

CHAPTER 3

PROPOSED SYSTEM

3.1 PROPOSED SYSTEM

In this proposed framework, the client composes the message content and furthermore chooses the contacts to which the message must be sent and save it. Thus, when she is in some peril simply by opening the application and, moving telephone the message put away will be shipped off those numbers he has included this application. With the goal that he can get the assistance in right time.

3.2 OBJECTIVES OF PROPOSED SYSTEM

The objectives of the proposed system include the following:

- To give wellbeing to ladies'.
- To give uprightness, privacy and security to client's information
- To gather dataset containing their data of 5 prime contacts and to alarm them if there should arise an occurrence of risk.

3.3 SYSTEM REQUIREMENTS

Here are the requirements for developing the application.

3.3.1 SOFTWARE REQUIREMENTS

Below are the software requirements for the application development:

- The expected language is java.
- Manager for Android Studio ,lang-java and xml.
- Programming interface Application Programming Point of interaction
- Google Chrome, Firefox, Microsoft Edge or Bold Program with Expansion Backing

3.3.2 HARDWARE REQUIREMENTS

Below are the hardware requirements for the application development:

- Operating System : windows
- Processor : intel i3(min)
- Ram : 8 GB(min)
- Hard Disk : 256GB(min)

3.3.3 FUNCTIONAL REQUIREMENTS

- The client will have the option to enroll to the framework.
- The client will have the option to refresh her profile including data like crisis contact data.
- Client will have five choice on fundamental screen i.e., Add number,contact,profile,nearby police station,logout.
- In alarm ready crisis ready message will be shipped off crisis contact for help.
- In careful, message will be sent for remaining dynamic.
- In send status choice, client area should be shipped off crisis contact.
- The framework will have the option to send messages by shaking the telephone in alarm ready choice.
- The framework will have the option to send message by choosing send status and wary choice.

3.3.4 NON-FUNCTIONAL REQUIREMENTS

Reliability

- No matter what the quantity of endeavors the framework ought to have the option to precisely recognize the record type.
- Framework ought to have the option to appropriately deal with any special case.
- With respect to the result, the framework ought to have the option to give a quicker reaction.

Scalability

- To deliver improved results, the framework ought to have the option to separate the class of all records and be easy to understand.
- The framework should have the option to adapt up to any sort of updates in the model.

3.4 CONCEPTS USED IN THE PROPOSED SYSTEM

i)Android Studio:

Android Studio is the authority Coordinated Advancement Climate (IDE) for android application improvement. Android Studio gives more highlights that improve our efficiency while building Android applications.

Features of Android Studio

- It has an adaptable Gradle-based form framework.
- It has a quick and element rich emulator for application testing.
- Android Studio has a solidified climate where we can produce for all Android gadgets.
- Apply changes to the asset code of our running application without restarting the application.
- Android Studio gives broad testing instruments and systems.
- It upholds C++ and NDK.
- It gives work in supports to research Cloud Stage. It makes it simple to coordinate Google Cloud Informing and Application Motor.

ii)XML

- XML represents Extensible Markup Language.
- XML is a markup language similar as HTML used to portray information.
- XML labels are not predefined in XML. We should characterize our own Labels.
- Xml as itself is well meaningful both by human and machine. Additionally, it is adaptable and easy to create.
- In Android we use xml for planning our designs on the grounds that xml is lightweight language so it doesn't make our format weighty.

iii)JAVA:

- Java assumes a significant part being developed of Android applications since business rationale is written in Java.
- You can say that information on center Java is must for the advancement of android application.

Information on advance Java is an or more point for the turn of events. With the information on advance Java, you can add new highlights to the application

CHAPTER 4

SYSTEM DESIGN

4.1 COMPONENTS OR USERS IN THE PROPOSED SYSTEM

MODULES

At the point when client open the application add the contact, first and foremost, and cheak it proprely added or not.thwn iser shaking the phone.Then send SMS to Enlist contact nos.

Adding Contact : Using this module Adding 5 Emergency contacts numbers save it, so adding contact nos.

Messages: Store some message, to your risk circumstance. It's utilizing to Crisis circumstance.

4.2 PROPOSED SYSTEM ARCHITECTURE

The proposed engineering portrayed beneath shows the specific progression of control of the android application. Here the data set goes about as a putting away media between the two cell phones. The data set data i.e., to which data set the data must be sent, the URL of the data set is coded itself in the application. From the information base, the area organizes are shipped off the enrolled contacts of the client.

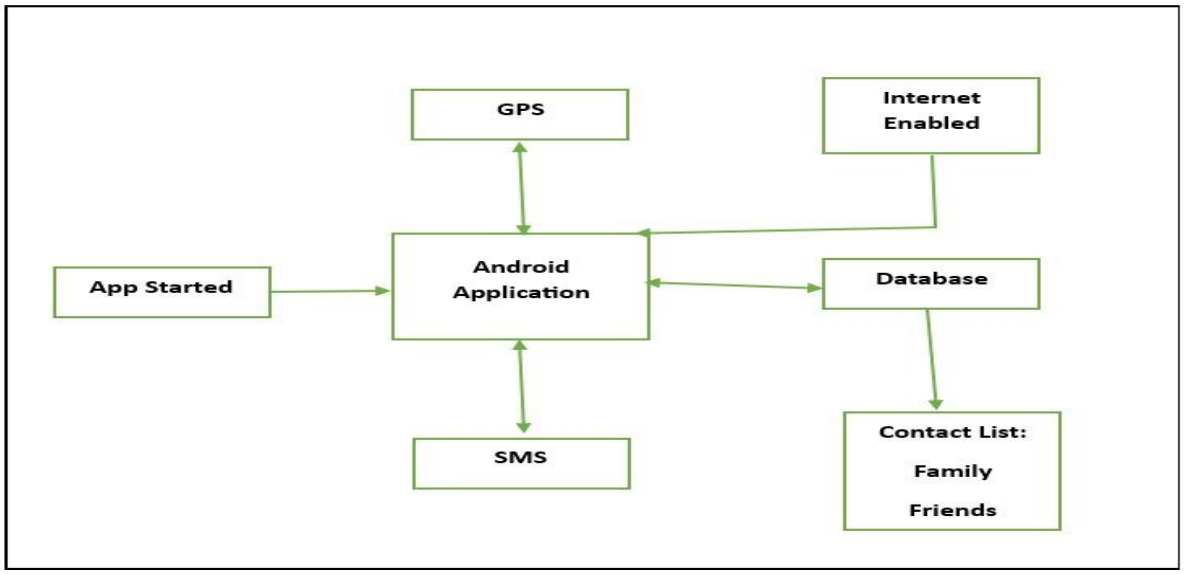


Fig 4.1

The proposed framework will be carried out with the assistance of android application. Which will caution the close by individuals who having this application by sending ready messages to them and ready sound in the gatekeeper versatile on shaking of casualty portable. Additionally sends messages and ready sound to the saved contacts in the application and police headquarters. Which additionally show the area of the casualty with the assistance of GPS tracker framework. Which likewise make sound in watchman versatile when his/her portable in quiet mode.In this application we can likewise add however many contacts as we can.

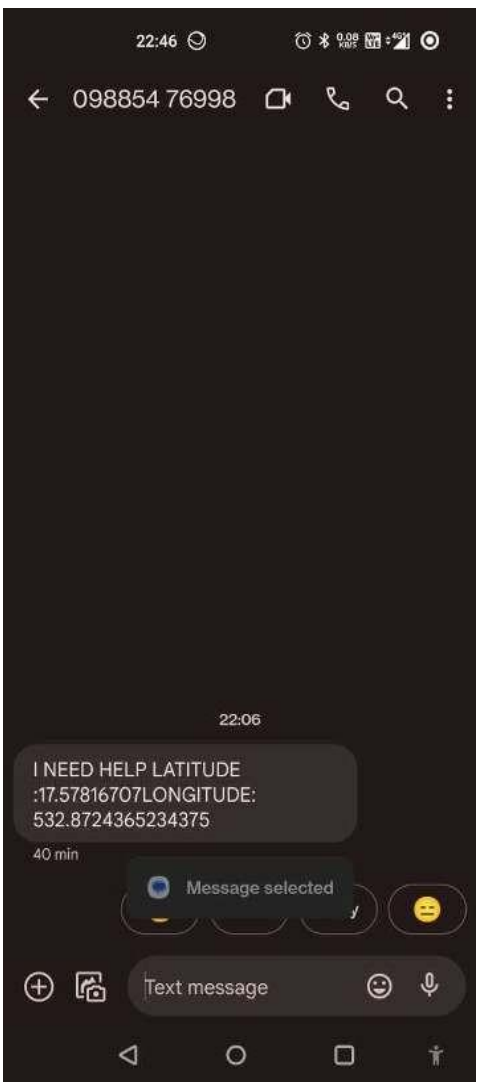
What's New in the System to Be Developed ?

In new application we are giving an easy to understand interface where the client could send the message ready all the more proficiently and cleverly. The client could never have to recollect all the significant contact quantities of kin, family members or companions. The new framework is additionally intelligent to the clients and gives the office to realize their close by police headquarters.

FEATURES OF SOS APP

- In this segment, the critical highlights of the SOS Application are recorded beneath, which gives an outline of the framework as well as makes sense of why it is not the same as others.
- Whenever clients first need to enroll to the application by entering the fundamental subtleties of the client like Name, Telephone no, Emailid, and so on in the Information exchange Page.
- A one-time confirmation code will be ship off the client's email-account. Then, at that point, the client should enter the check code to finish the enlistment cycle. Then, at that point, a message will be ship off the client's portable number for finishing the enlistment effectively. The client presently can get to the primary elements of the application.
- Client will actually want to deal with their Crisis Contacts utilizing the Add Crisis Contacts choice.
- There is a Caution Button. On squeezing the caution button, a police alarm (a piercing and boisterous commotion) will be enacted which will definitely stand out enough to be noticed of neighboring.
- There is a Crisis Call Button. On squeezing that button a crisis number will be autodialed.

- There is a Signal for an emergency response. On squeezing that button once, an alarm message will be ship off the crisis contacts alongside his/her ongoing area. On the off chance that, the client doesn't have a web association then, at that point, just alarm message will be send.



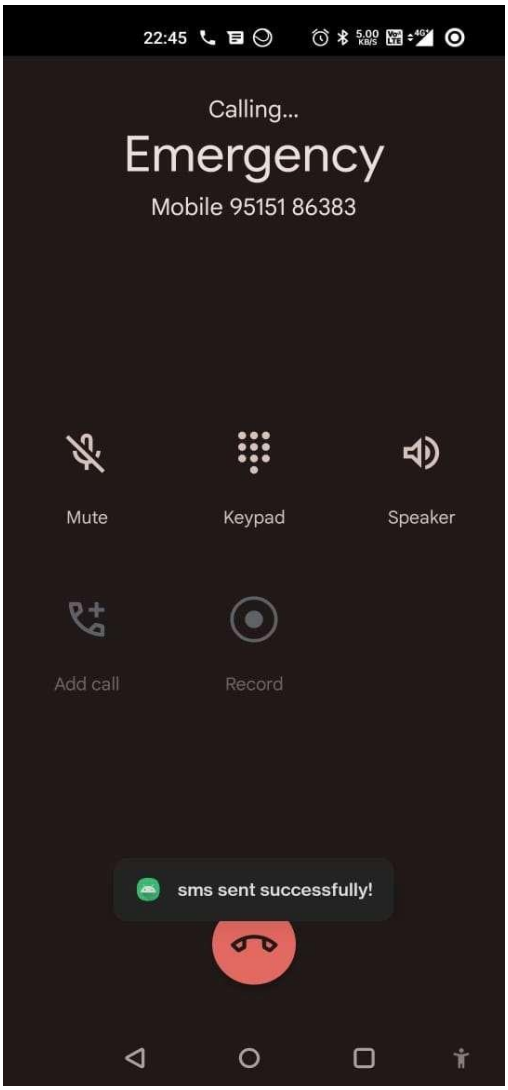


Fig 4.2

FEATURES OF SAFETY APP

- Whenever clients first need to enlist to the application by entering the essential subtleties of the client like Name, Telephone no, Emailid, password in the Information exchange Page.
- In the event that client as of now register, its show choice on information exchange page that is Now register login here
- Client add any number in add numbers
- The fundamental feacture is it show close by police headquarters.
- At the point when client shake the cell phone it send sms of area and help..

LOGO OF SAFETY APP

Fig 4.3

Following are the UI of our safety app.

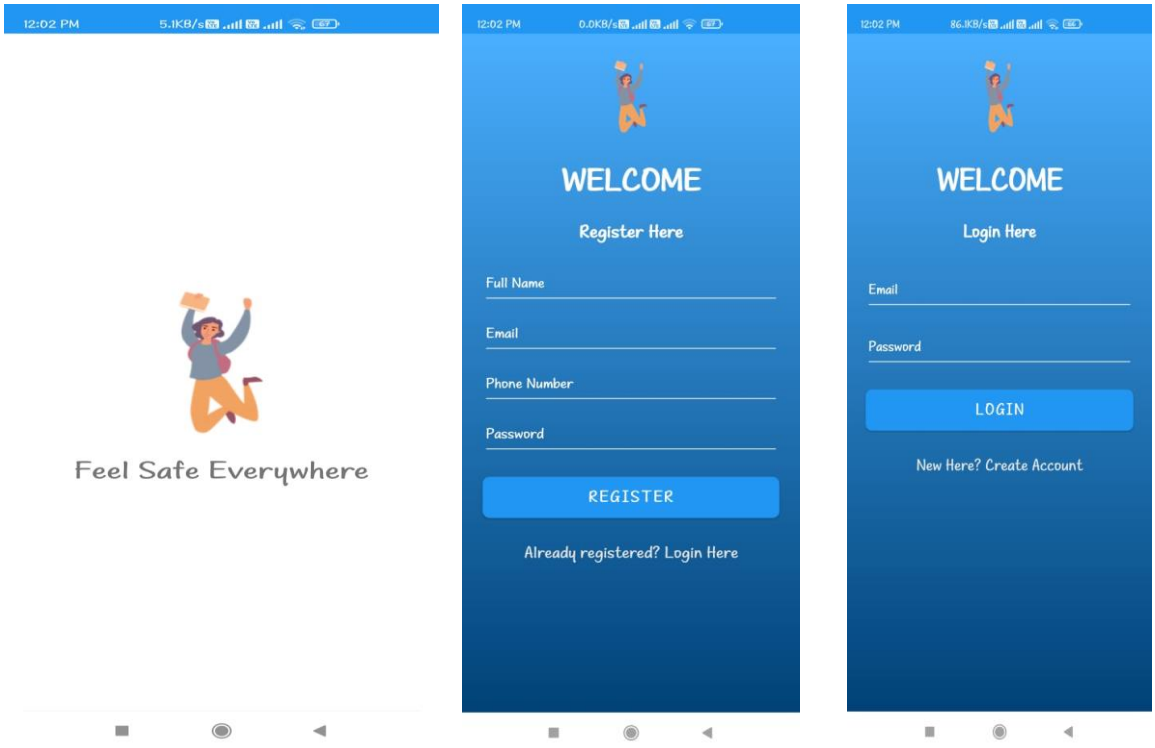
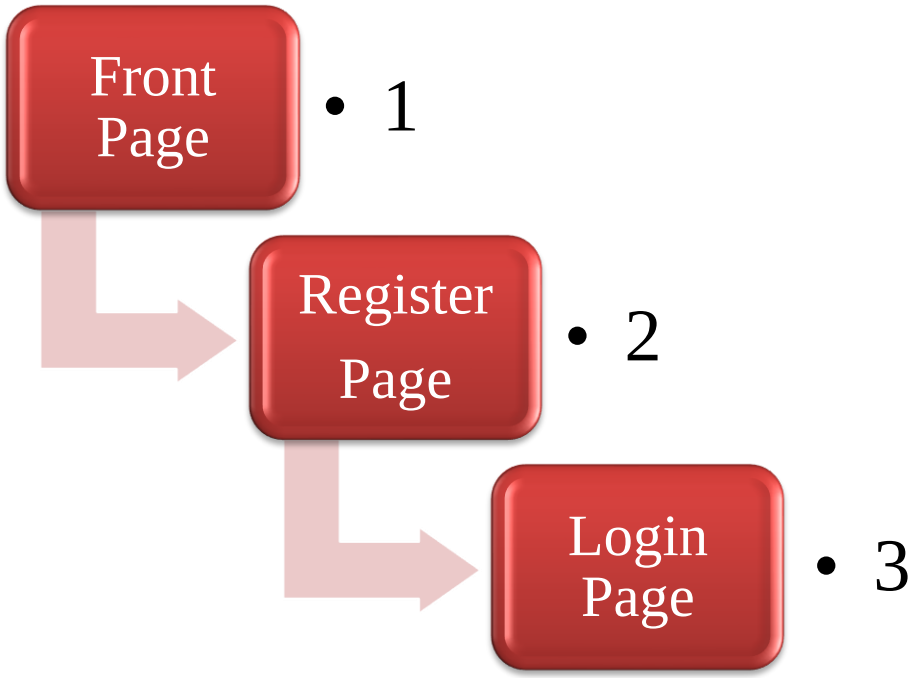


Fig 4.4



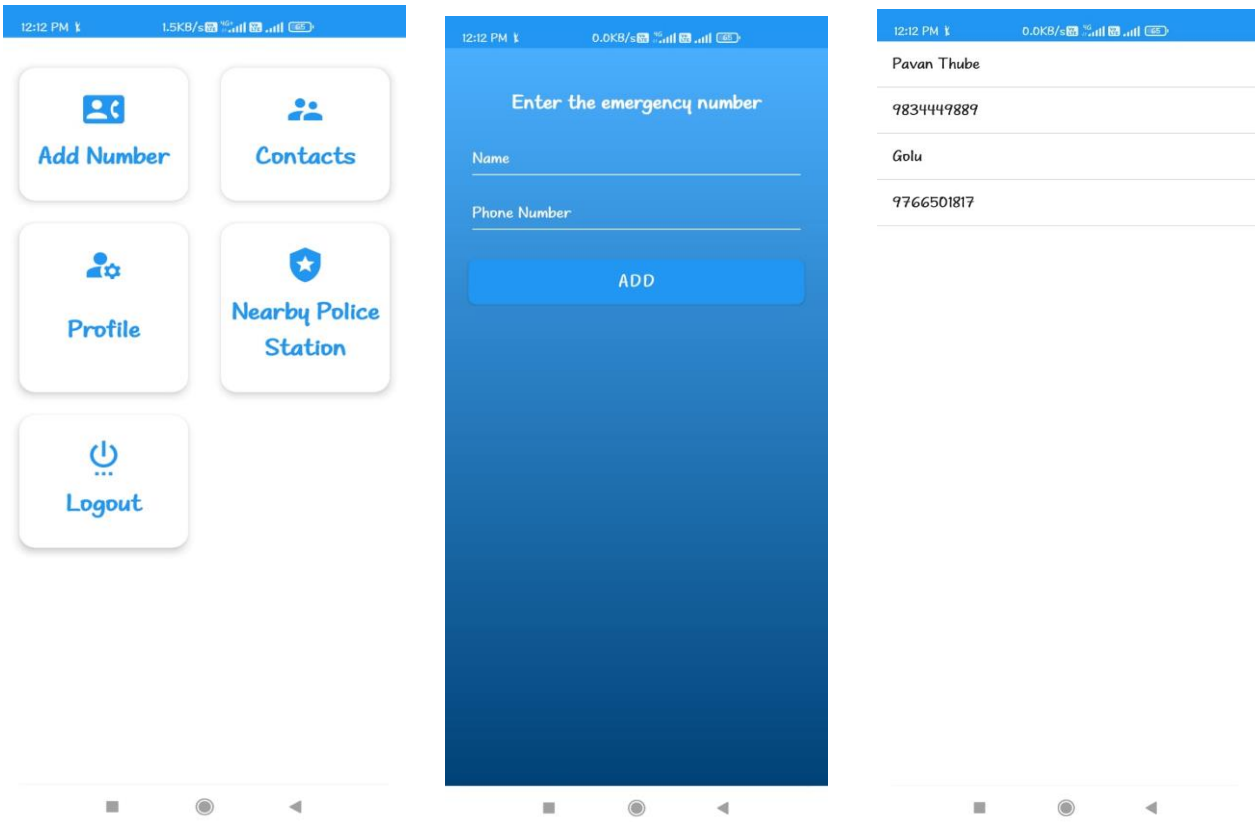
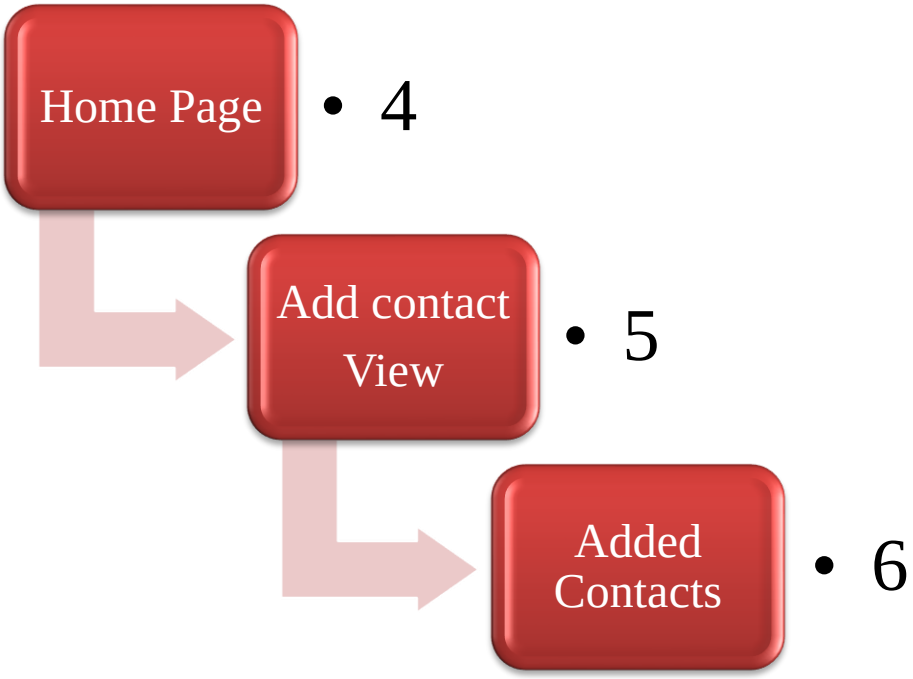

12:12 PM
1.5KB/s
Add Number
Contacts
Profile
Nearby Police Station
Logout
12:12 PM
0.0KB/s
Enter the emergency number
Name
Phone Number
ADD
12:12 PM
0.0KB/s
Pavan Thube
9834449889
Golu
9766501817

Fig 4.5


Home Page
4
Add contact View
5
Added Contacts
6

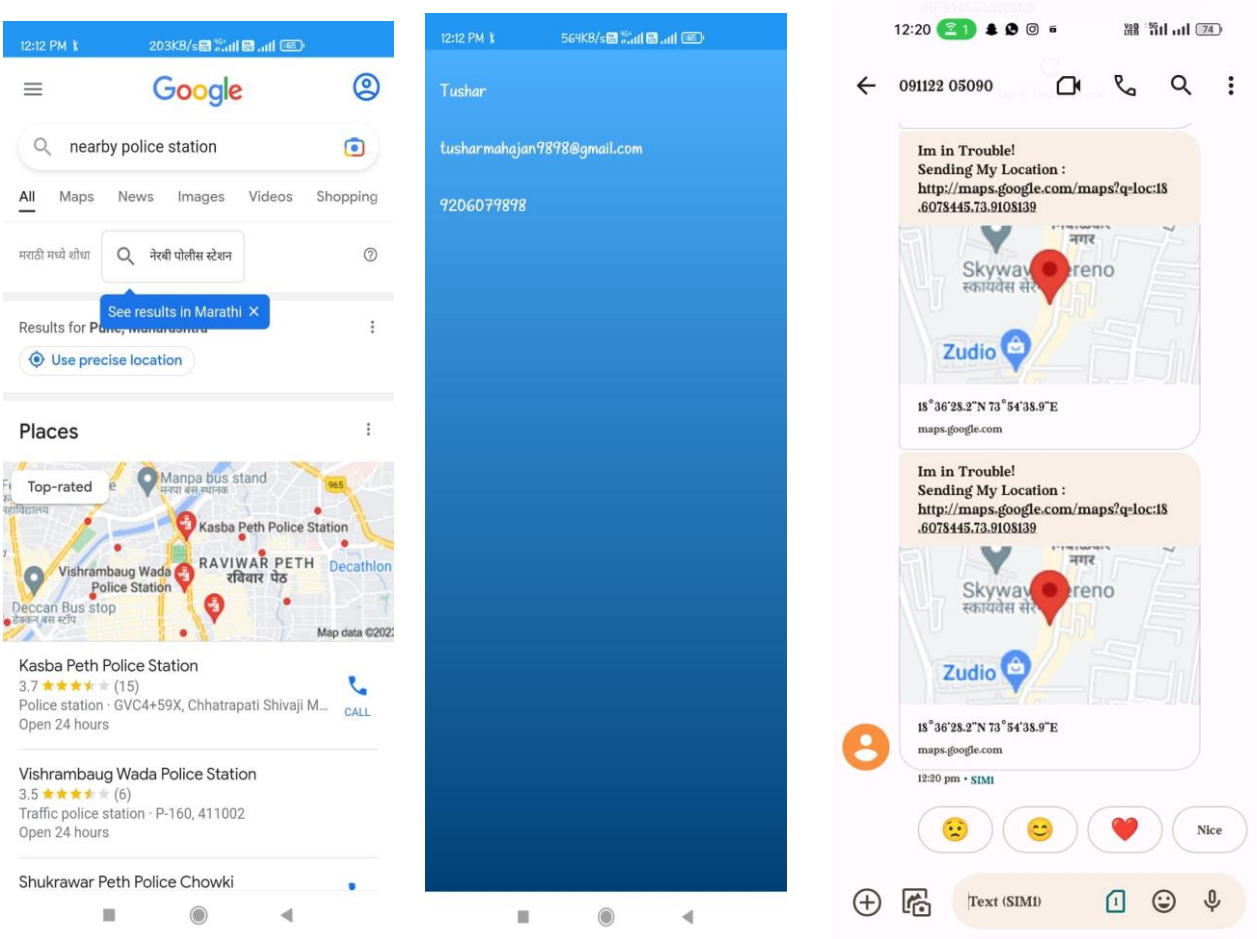
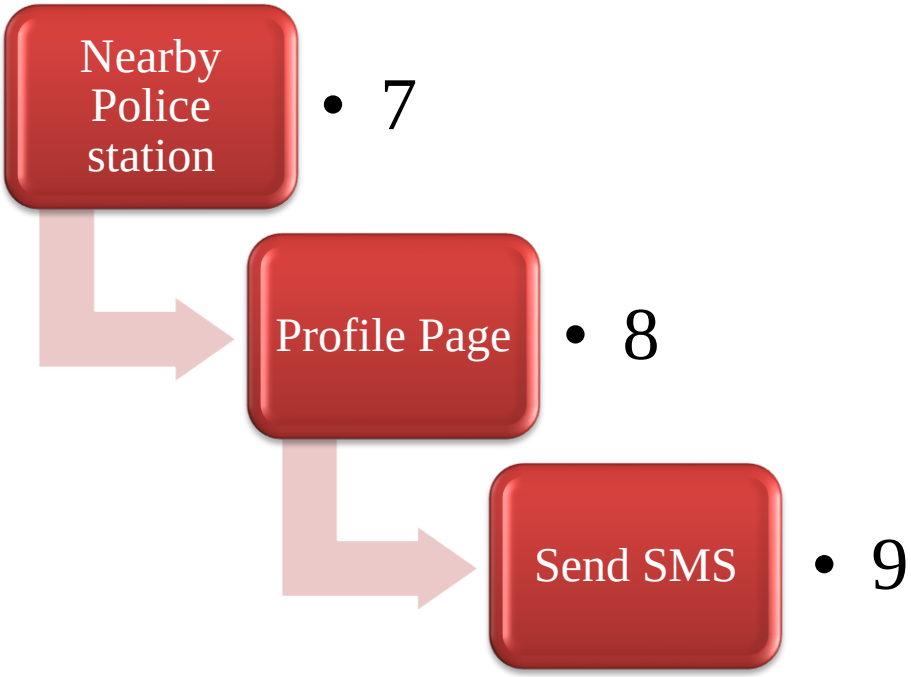

nearby police station
All Maps News Images Videos Shopping
See results in Marathi
Use precise location
Places
Top-rated
Kasba Peth Police Station
Vishrambaug Wada Police Station
RAVIWAR PETH
Decathlon
Deccan Bus stop
Kasba Peth Police Station
3.7 (15)
Police station · GVC4+59X, Chhatrapati Shivaji M...
Open 24 hours
CALL
Vishrambaug Wada Police Station
3.5 (6)
Traffic police station · P-160, 411002
Open 24 hours
Shukrawar Peth Police Chowki
Tushar
tusharmahajan9898@gmail.com
9206079898
091122 05090
Im in Trouble!
Sending My Location :
http://maps.google.com/maps?q=loc:18.6078445,73.9108139
Zudio
18°36'28.2"N 73°54'38.9"E
maps.google.com
12:20 pm • SIM1
Nice
Text (SIM1)

Fig 4.6


Nearby Police station
7
Profile Page
8
Send SMS
9

CHAPTER 5

IMPLEMENTATION

1.1 Source Code

A) Manifest

```
<?xml version="1.0" encoding="utf-8"?>
<manifest xmlns:android="http://schemas.android.com/apk/res/android"
package="com.safety.woman">
<uses-feature
android:name="android.hardware.sensor.accelerometer"
android:required="true" />
<uses-permission android:name="android.permission.ACCESS_FINE_LOCATION" />
<uses-permission android:name="android.permission.ACCESS_COARSE_LOCATION" />
<uses-permission android:name="android.permission.FOREGROUND_SERVICE" />
<uses-permission android:name="android.permission.SEND_SMS" />
<application
android:allowBackup="true"
android:icon="@mipmap/ic_launcher"
android:label="@string/app_name"
android:roundIcon="@mipmap/ic_launcher_round"
android:supportsRtl="true"
android:theme="@style/Theme.Wsafety">
<activity
android:name=".ContactsActivity"
android:exported="false" />
<activity
android:name=".NearbyPoliceWebActivity"
android:exported="false" />
<activity
```

```
android:name=".ProfileActivity"
android:exported="false" />
<activity android:name=".RegisterNumberActivity" />
<activity android:name=".RegistrationActivity" />
<activity android:name=".LoginActivity" />
<activity
android:name=".SplashActivity"
android:exported="true">
<intent-filter>
<action android:name="android.intent.action.MAIN" />
<category android:name="android.intent.category.LAUNCHER" />
</intent-filter></activity>
<activity android:name=".MainActivity" />
<service
android:name=".ServiceMine"
android:enabled="true"
android:foregroundServiceType="location" />
</application> </manifest>
```

B) Java Code

1.Main Activity

```
package com.safety.woman;
import android.Manifest;
import android.app.NotificationChannel;
import android.app.NotificationManager;
import android.content.Context;
import android.content.Intent;
import android.content.pm.PackageManager;
import android.os.Build;
import android.os.Bundle;
import androidx.activity.result.ActivityResultCallback;
import androidx.activity.result.ActivityResultLauncher;
```

```
import androidx.activity.result.contract.ActivityResultContracts;
import androidx.appcompat.app.AppCompatActivity;
import androidx.core.content.ContextCompat;
import com.google.android.material.card.MaterialCardView;
import com.google.android.material.snackbar.Snackbar;
import com.google.firebase.auth.FirebaseAuth;
import java.util.Map;
public class MainActivity extends AppCompatActivity {
private final ActivityResultLauncher<String[]> multiplePermissions =
registerForActivityResult(new ActivityResultContracts.RequestMultiplePermissions(), new
ActivityResultCallback<>() {
@Override
public void onActivityResult(Map<String, Boolean> result) {
for (Map.Entry<String, Boolean> entry : result.entrySet())
if (!entry.getValue()) {
Snackbar snackbar = Snackbar.make(findViewById(android.R.id.content), "Permission Must Be
Granted!", Snackbar.LENGTH_INDEFINITE);
snackbar.setAction("Grant Permission", v -> {
multiplePermissions.launch(new String[]{entry.getKey()});
snackbar.dismiss();});
snackbar.show();}        }    });
@Override
protected void onCreate(Bundle savedInstanceState) {
super.onCreate(savedInstanceState);
setContentView(R.layout.activity_main);
MaterialCardView addNumber = findViewById(R.id.card_add_number);
MaterialCardView contacts = findViewById(R.id.card_contacts);
MaterialCardView profile = findViewById(R.id.card_profile);
MaterialCardView nearbyPolice = findViewById(R.id.card_nearby_police);
MaterialCardView logout = findViewById(R.id.card_log_out);
addNumber.setOnClickListener(v -> {
```

```
startActivity(new Intent(MainActivity.this, RegisterNumberActivity.class)) });
contacts.setOnClickListener(v -> {
startActivity(new Intent(MainActivity.this, ContactsActivity.class)); });
profile.setOnClickListener(v -> {
startActivity(new Intent(MainActivity.this, ProfileActivity.class));       });
nearbyPolice.setOnClickListener(v -> {
startActivity(new Intent(MainActivity.this, NearbyPoliceWebActivity.class));       });
logout.setOnClickListener(v -> {
stopService();
FirebaseAuth.getInstance().signOut();
startActivity(new Intent(MainActivity.this, SplashActivity.class));       });
if (Build.VERSION.SDK_INT >= Build.VERSION_CODES.O) {
NotificationChannel channel = new NotificationChannel("MYID",
"CHANNELFOREGROUND", NotificationManager.IMPORTANCE_DEFAULT);
NotificationManager m = (NotificationManager)
getSystemService(Context.NOTIFICATION_SERVICE);
m.createNotificationChannel(channel);       }
startServiceV();    }
public void stopService() {
Intent notificationIntent = new Intent(this, ServiceMine.class);
notificationIntent.setAction("stop");
if (Build.VERSION.SDK_INT >= Build.VERSION_CODES.O) {
getApplicationContext().startForegroundService(notificationIntent);
Snackbar.make(findViewById(android.R.id.content), "Service Stopped!",
Snackbar.LENGTH_LONG).show();       }    }
public void startServiceV() {
if (ContextCompat.checkSelfPermission(this, Manifest.permission.SEND_SMS) ==
PackageManager.PERMISSION_GRANTED && ContextCompat.checkSelfPermission(this,
Manifest.permission.ACCESS_COARSE_LOCATION) ==
PackageManager.PERMISSION_GRANTED && ContextCompat.checkSelfPermission(this,
```

```
Manifest.permission.ACCESS_FINE_LOCATION) ==
PackageManager.PERMISSION_GRANTED) {
Intent notificationIntent = new Intent(this, ServiceMine.class);
notificationIntent.setAction("Start");
if (Build.VERSION.SDK_INT >= Build.VERSION_CODES.O) {
getApplicationContext().startForegroundService(notificationIntent);
Snackbar.make(findViewById(android.R.id.content), "Service Started!",
Snackbar.LENGTH_LONG).show();
}} else {
multiplePermissions.launch(new String[]{Manifest.permission.SEND_SMS,
Manifest.permission.ACCESS_COARSE_LOCATION,
Manifest.permission.ACCESS_FINE_LOCATION});       }    } }
```

2.Near By Police Station Web Activity

```
package com.safety.woman;
import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
import android.webkit.WebView;
import android.webkit.WebViewClient;
public class NearbyPoliceWebActivity extends AppCompatActivity {
@Override
protected void onCreate(Bundle savedInstanceState) {
super.onCreate(savedInstanceState);
setContentView(R.layout.activity_nearby_police_web);
WebView webView = findViewById(R.id.web_view);
webView.getSettings().setJavaScriptEnabled(true);
webView.setWebViewClient(new WebViewClient());
webView.loadUrl("https://www.google.com/search?q=nearby+police+station");    } }
```

3.Registration Activity

```
package com.safety.woman;
```

```
import android.content.Intent;
import android.os.Bundle;
import android.text.TextUtils;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.ProgressBar;
import android.widget.TextView;
import android.widget.Toast;
import androidx.appcompat.app.AppCompatActivity;
import com.google.firebase.auth.FirebaseAuth;
public class RegistrationActivity extends AppCompatActivity {
EditText mFullName, mEmail, mPassword, mPhone;
Button mRegisterbtn;
TextView mCreateText;
FirebaseAuth fAuth;
ProgressBar progressBar;
@Override
protected void onCreate(Bundle savedInstanceState) {
super.onCreate(savedInstanceState);
setContentView(R.layout.activity_registration);
mFullName = findViewById(R.id.fullName);
mEmail = findViewById(R.id.email);
mPassword = findViewById(R.id.password);
mPhone = findViewById(R.id.phone);
mRegisterbtn = findViewById(R.id.registerbtn);
mCreateText = findViewById(R.id.createText);
fAuth = FirebaseAuth.getInstance();
progressBar = findViewById(R.id.progressBar);
UserPreference userPreference = new UserPreference(getApplicationContext());
mRegisterbtn.setOnClickListener(v -> {
```

```
String fullName = mFullName.getText().toString().trim();
String email = mEmail.getText().toString().trim();
String phone = mPhone.getText().toString().trim();
String password = mPassword.getText().toString().trim();
if (TextUtils.isEmpty(email)) {
mEmail.setError("Email is Required.");
return; }
if (TextUtils.isEmpty(password)) {
mPassword.setError("Password is Required");
return;}
if (password.length() < 6) {
 mPassword.setError("Password Must be >= 6 Characters");
return;  }
progressBar.setVisibility(View.VISIBLE);
fAuth.createUserWithEmailAndPassword(email, password).addOnCompleteListener(task -> {
if (task.isSuccessful()) {
userPreference.write(UserPreference.FULL_NAME, fullName);
userPreference.write(UserPreference.MOBILE, phone);
Toast.makeText(RegistrationActivity.this, "User Created.", Toast.LENGTH_SHORT).show();
startActivity(new Intent(getApplicationContext(), MainActivity.class));
} else {
Toast.makeText(RegistrationActivity.this, "Error" + task.getException().getMessage(),
Toast.LENGTH_SHORT).show();
progressBar.setVisibility(View.GONE); }    });    });
mCreateText.setOnClickListener(v -> startActivity(new Intent(this, LoginActivity.class)));  } }
```

4.Registration Number Activity

```
package com.safety.woman;
import android.os.Bundle;
import android.text.TextUtils;
import android.widget.Button;
```

```
import android.widget.EditText;
import android.widget.Toast;
import androidx.appcompat.app.AppCompatActivity;
public class RegisterNumberActivity extends AppCompatActivity {
EditText mName, mPhone;
Button mAddBtn;
databaseHelper myDB;
@Override
protected void onCreate(Bundle savedInstanceState) {
super.onCreate(savedInstanceState);
setContentView(R.layout.activity_register_number);
mName = findViewById(R.id.name);
mPhone = findViewById(R.id.phone);
mAddBtn = findViewById(R.id.addBtn);
myDB = new DatabaseHelper(this);
mAddBtn.setOnClickListener(v -> {
String name = mName.getText().toString().trim();
String phone = mPhone.getText().toString().trim();
if (TextUtils.isEmpty(phone)) {
mPhone.setError("Phone Number is Required"); return;}
addData(name); addData(phone);      });  }
public void addData(String newEntry) {
boolean insertData = myDB.addData(newEntry);
if (insertData == true) {
Toast.makeText(this, "Data Successfully Inserted!", Toast.LENGTH_LONG).show();
} else {
Toast.makeText(this, "Something went wrong :(.", Toast.LENGTH_LONG).show();} }}
```

5. Profile Activity

```
package com.safety.woman;
import androidx.appcompat.app.AppCompatActivity;
```

```
import android.os.Bundle;
import android.widget.TextView;
import com.google.firebase.auth.FirebaseAuth;
import com.google.firebase.auth.FirebaseUser;
public class ProfileActivity extends AppCompatActivity {
@Override
protected void onCreate(Bundle savedInstanceState) {
super.onCreate(savedInstanceState);
setContentView(R.layout.activity_profile);
UserPreference userPreference = new UserPreference(getApplicationContext());
TextView fullName = findViewById(R.id.full_name);
TextView email = findViewById(R.id.email);
TextView phone_number = findViewById(R.id.phone_number);
FirebaseUser currentUser = FirebaseAuth.getInstance().getCurrentUser();
if (currentUser != null) {
email.setText(currentUser.getEmail());}
String fullNameValue = userPreference.read(UserPreference.FULL_NAME, "");
String mobileValue = userPreference.read(UserPreference.MOBILE, "");
if (!fullNameValue.equals("")) {
fullName.setText(fullNameValue);}
if (!mobileValue.equals("")) {
phone_number.setText(mobileValue);}}}
```

C) XML Code

1.Activity Main Xml

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout
xmlns:android="http://schemas.android.com/apk/res/android"
xmlns:app="http://schemas.android.com/apk/res-auto"
xmlns:tools="http://schemas.android.com/tools"
android:layout_width="match_parent"
```

```
android:layout_height="match_parent"
tools:context=".MainActivity">
<androidx.constraintlayout.widget.Guideline
android:id="@+id/guideline"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:orientation="vertical"
app:layout_constraintGuide_percent=".5" />com.google.android.material.card.MaterialCardView
android:id="@+id/card_add_number"
android:layout_width="0dp"
android:layout_height="wrap_content"
android:layout_marginStart="16dp"
android:layout_marginTop="32dp"
android:layout_marginEnd="16dp"
app:cardCornerRadius="16dp"
app:cardElevation="6dp"
app:contentPadding="8dp"
app:layout_constraintEnd_toEndOf="@+id/guideline"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent">
<com.google.android.material.textview.MaterialTextView
android:layout_width="match_parent"
android:layout_height="match_parent"
android:layout_marginTop="16dp"
android:layout_marginBottom="16dp"
android:drawablePadding="8dp"
android:gravity="center"
android:text="Add Number"
android:textColor="@color/colorPrimary"
android:textSize="24sp"
android:textStyle="bold"
```

```
app:drawableTint="@color/colorPrimary"
app:drawableTopCompat="@drawable/ic_contact_phone" />
</com.google.android.material.card.MaterialCardView>
<com.google.android.material.card.MaterialCardView
android:id="@+id/card_contacts"
android:layout_width="0dp"
android:layout_height="wrap_content"
android:layout_marginStart="16dp"
android:layout_marginEnd="16dp"
app:cardCornerRadius="16dp"
app:cardElevation="6dp"
app:contentPadding="8dp"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintStart_toStartOf="@+id/guideline"
app:layout_constraintTop_toTopOf="@+id/card_add_number">
<com.google.android.material.textview.MaterialTextView
android:layout_width="match_parent"
android:layout_height="match_parent"
android:layout_marginTop="16dp"
android:layout_marginBottom="16dp"
android:drawablePadding="8dp"
android:gravity="center"
android:text="Contacts"
android:textColor="@color/colorPrimary"
android:textSize="24sp"
android:textStyle="bold"
app:drawableTint="@color/colorPrimary"
app:drawableTopCompat="@drawable/ic_contacts" />
</com.google.android.material.card.MaterialCardView>
<com.google.android.material.card.MaterialCardView
android:id="@+id/card_profile"
```

```
android:layout_width="0dp"
android:layout_height="wrap_content"
android:layout_marginStart="16dp"
android:layout_marginTop="24dp"
android:layout_marginEnd="16dp"
app:cardCornerRadius="16dp"
app:cardElevation="6dp"
app:contentPadding="8dp"
app:layout_constraintEnd_toEndOf="@+id/guideline"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toBottomOf="@+id/card_contacts">
<com.google.android.material.textview.MaterialTextView
android:layout_width="match_parent"
android:layout_height="match_parent"
android:layout_marginTop="16dp"
android:layout_marginBottom="16dp"
android:drawablePadding="8dp"
android:gravity="center"
android:lines="2"
android:text="Profile"
android:textColor="@color/colorPrimary"
android:textSize="24sp"
android:textStyle="bold"
app:drawableTint="@color/colorPrimary"
app:drawableTopCompat="@drawable/ic_account" />
</com.google.android.material.card.MaterialCardView>
<com.google.android.material.card.MaterialCardView
android:id="@+id/card_nearby_police"
android:layout_width="0dp"
android:layout_height="wrap_content"
android:layout_marginStart="16dp"
```

```
android:layout_marginEnd="16dp"
app:cardCornerRadius="16dp"
app:cardElevation="6dp"
app:contentPadding="8dp"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintStart_toStartOf="@+id/guideline"
app:layout_constraintTop_toTopOf="@+id/card_profile">
<com.google.android.material.textview.MaterialTextView
android:layout_width="match_parent"
android:layout_height="match_parent"
android:layout_marginTop="16dp"
android:layout_marginBottom="16dp"
android:drawablePadding="8dp"
android:gravity="center"
android:text="Nearby Police Station"
android:textColor="@color/colorPrimary"
android:textSize="24sp"
android:textStyle="bold"
app:drawableTint="@color/colorPrimary"
app:drawableTopCompat="@drawable/baseline_local_police_24" />
</com.google.android.material.card.MaterialCardView>
<com.google.android.material.card.MaterialCardView
android:id="@+id/card_log_out"
android:layout_width="0dp"
android:layout_height="wrap_content"
android:layout_marginStart="16dp"
android:layout_marginTop="24dp"
android:layout_marginEnd="16dp"
app:cardCornerRadius="16dp"
app:cardElevation="6dp"
app:contentPadding="8dp"
```

```
app:layout_constraintEnd_toEndOf="@+id/guideline"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toBottomOf="@+id/card_profile">
<com.google.android.material.textview.MaterialTextView
android:layout_width="match_parent"
android:layout_height="match_parent"
android:layout_marginTop="16dp"
android:layout_marginBottom="16dp"
android:drawablePadding="8dp"
android:gravity="center"
android:text="Logout"
android:textColor="@color/colorPrimary"
android:textSize="24sp"
android:textStyle="bold"
app:drawableTint="@color/colorPrimary"
app:drawableTopCompat="@drawable/ic_log_out" />
</com.google.android.material.card.MaterialCardView>
</androidx.constraintlayout.widget.ConstraintLayout>
```

2.activity_register.xml

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout
xmlns:android="http://schemas.android.com/apk/res/android"
xmlns:app="http://schemas.android.com/apk/res-auto"
xmlns:tools="http://schemas.android.com/tools"
android:layout_width="match_parent"
android:layout_height="match_parent"
android:background="@drawable/background"
tools:context=".RegistrationActivity">
<ImageView
android:id="@+id/iv_logo"
```

```
android:layout_width="0dp"
android:layout_height="100dp"
android:layout_marginTop="24dp"
android:src="@drawable/girl_vector"
app:layout_constraintDimensionRatio="1:1"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent" />
<TextView
android:id="@+id/tv_welcome"
android:layout_width="0dp"
android:layout_height="wrap_content"
android:layout_marginTop="16dp"
android:gravity="center_horizontal"
android:text="WELCOME"
android:textColor="#FFFFFF"
android:textSize="35sp"
android:textStyle="bold"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toBottomOf="@+id/iv_logo" />
<TextView
android:id="@+id/tv_login"
android:layout_width="match_parent"
android:layout_height="wrap_content"
android:layout_marginTop="8dp"
android:gravity="center_horizontal"
android:text="Register Here"
android:textColor="#FFFFFF"
android:textSize="20sp"
android:textStyle="bold"
```

```
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toBottomOf="@+id/tv_welcome" />
com.google.android.material.textfield.TextInputEditText
android:id="@+id/fullName"
android:layout_width="0dp"
android:layout_height="wrap_content"
android:layout_marginStart="24dp"
android:layout_marginTop="16dp"
android:layout_marginEnd="24dp"
android:backgroundTint="@color/white"
android:hint="Full Name"
 android:inputType="textPersonName"
 android:textColor="@color/white"
 android:textColorHint="@color/white"
 android:textSize="16sp"
 app:layout_constraintEnd_toEndOf="parent"
 app:layout_constraintStart_toStartOf="parent"
 app:layout_constraintTop_toBottomOf="@+id/tv_login" />
<com.google.android.material.textfield.TextInputEditText
 android:id="@+id/email"
 android:layout_width="0dp"
 android:layout_height="wrap_content"
 android:layout_marginStart="24dp"
 android:layout_marginTop="8dp"
 android:layout_marginEnd="24dp"
 android:backgroundTint="@color/white"
 android:hint="Email"
 android:inputType="textEmailAddress"
 android:textColor="@color/white"
 android:textColorHint="@color/white"
```

```
 android:textSize="16sp"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toBottomOf="@+id/fullName" />
<com.google.android.material.textfield.TextInputEditText
android:id="@+id/phone"
android:layout_width="0dp"
android:layout_height="wrap_content"
android:layout_marginStart="24dp"
android:layout_marginTop="8dp"
android:layout_marginEnd="24dp"
android:backgroundTint="@color/white"
android:hint="Phone Number"
android:inputType="phone"
android:textColor="@color/white"
android:textColorHint="@color/white"
android:textSize="16sp"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toBottomOf="@+id/email" />
<com.google.android.material.textfield.TextInputEditText
android:id="@+id/password"
android:layout_width="0dp"
android:layout_height="wrap_content"
android:layout_marginStart="24dp"
android:layout_marginTop="8dp"
android:layout_marginEnd="24dp"
android:backgroundTint="@color/white"
android:hint="Password"
android:inputType="textPassword"
android:textColor="@color/white"
```

```
android:textColorHint="@color/white"
android:textSize="16sp"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toBottomOf="@+id/phone" />
<com.google.android.material.button.MaterialButton
android:id="@+id/registerbtn"
android:layout_width="match_parent"
android:layout_height="wrap_content"
android:layout_marginStart="24dp"
android:layout_marginTop="24dp"
android:layout_marginEnd="24dp"
android:insetTop="0dp"
android:insetBottom="0dp"
android:text="Register"
android:textColor="#FFFFFF"
android:textSize="18sp"
app:cornerRadius="8dp"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toBottomOf="@+id/password" />
<TextView
android:id="@+id/createText"
android:layout_width="match_parent"
android:layout_height="wrap_content"
android:layout_marginStart="24dp"
android:layout_marginTop="24dp"
android:layout_marginEnd="24dp"
android:gravity="center_horizontal"
android:text="Already registered? Login Here"
android:textColor="#E6E6E6"
```

```
android:textSize="18sp"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toBottomOf="@+id/registerbtn" />
<ProgressBar
android:id="@+id/progressBar"
style="?android:attr/progressBarStyle"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:visibility="invisible"
app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toBottomOf="@+id/createText" />
</androidx.constraintlayout.widget.ConstraintLayout>
```

3.Register Number Activity

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout
xmlns:android="http://schemas.android.com/apk/res/android"
xmlns:app="http://schemas.android.com/apk/res-auto"
xmlns:tools="http://schemas.android.com/tools"
android:layout_width="match_parent"
android:layout_height="match_parent"
android:background="@drawable/background"
tools:context=".RegisterNumberActivity">
<TextView
android:id="@+id/tv_login"
android:layout_width="match_parent"
android:layout_height="wrap_content"
android:layout_marginTop="40dp"
```

```
android:gravity="center_horizontal"
android:text="Enter the emergency number"
android:textColor="#FFFFFF"
android:textSize="20sp"
android:textStyle="bold"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent" />
<com.google.android.material.textfield.TextInputEditText
android:id="@+id/name"
android:layout_width="0dp"
android:layout_height="wrap_content"
android:layout_marginStart="24dp"
android:layout_marginTop="16dp"
android:layout_marginEnd="24dp"
android:backgroundTint="@color/white"
android:hint="Name"
android:inputType="textPersonName"
android:textColor="@color/white"
android:textColorHint="@color/white"
android:textSize="16sp"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toBottomOf="@+id/tv_login" />
<com.google.android.material.textfield.TextInputEditText
android:id="@+id/phone"
android:layout_width="0dp"
android:layout_height="wrap_content"
android:layout_marginStart="24dp"
android:layout_marginTop="8dp"
android:layout_marginEnd="24dp"
```

```
android:backgroundTint="@color/white"
android:hint="Phone Number"
android:inputType="phone"
android:textColor="@color/white"
android:textColorHint="@color/white"
android:textSize="16sp"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toBottomOf="@+id/name" />
<com.google.android.material.button.MaterialButton
android:id="@+id/addBtn"
android:layout_width="match_parent"
android:layout_height="wrap_content"
android:layout_marginStart="24dp"
android:layout_marginTop="24dp"
android:layout_marginEnd="24dp"
android:insetTop="0dp"
android:insetBottom="0dp"
android:text="Add"
android:textColor="#FFFFFF"
android:textSize="18sp"
app:cornerRadius="8dp"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toBottomOf="@+id/phone" />
</androidx.constraintlayout.widget.ConstraintLayout>
```

4.Near by Police Web Activity

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout
xmlns:android="http://schemas.android.com/apk/res/android"
```

```
xmlns:app="http://schemas.android.com/apk/res-auto"
xmlns:tools="http://schemas.android.com/tools"
android:layout_width="match_parent"
android:layout_height="match_parent"
tools:context=".NearbyPoliceWebActivity">
<WebView
android:id="@+id/web_view"
android:layout_width="0dp"
android:layout_height="0dp"
app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent" />
</androidx.constraintlayout.widget.ConstraintLayout>
```

5.Profile Activity

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout
xmlns:android="http://schemas.android.com/apk/res/android"
xmlns:app="http://schemas.android.com/apk/res-auto"
xmlns:tools="http://schemas.android.com/tools"
android:layout_width="match_parent"
android:layout_height="match_parent"
android:background="@drawable/background"
tools:context=".ProfileActivity">
<com.google.android.material.textview.MaterialTextView
android:id="@+id/full_name"
android:layout_width="0dp"
android:layout_height="wrap_content"
android:layout_marginStart="16dp"
android:layout_marginTop="24dp"
```

```
android:text="Full Name : "
android:textColor="@color/white"
android:textSize="16sp"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent" />
<com.google.android.material.textview.MaterialTextView
android:id="@+id/email"
android:layout_width="0dp"
android:layout_height="wrap_content"
android:layout_marginStart="16dp"
android:layout_marginTop="24dp"
android:text="Email : "
android:textColor="@color/white"
android:textSize="16sp"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toBottomOf="@+id/full_name" />
<com.google.android.material.textview.MaterialTextView
android:id="@+id/phone_number"
android:layout_width="0dp"
android:layout_height="wrap_content"
android:layout_marginStart="16dp"
android:layout_marginTop="24dp"
android:text="Phone Number : "
android:textColor="@color/white"
android:textSize="16sp"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toBottomOf="@+id/email" />
</androidx.constraintlayout.widget.ConstraintLayout>
```

CHAPTER 6

RESULTS

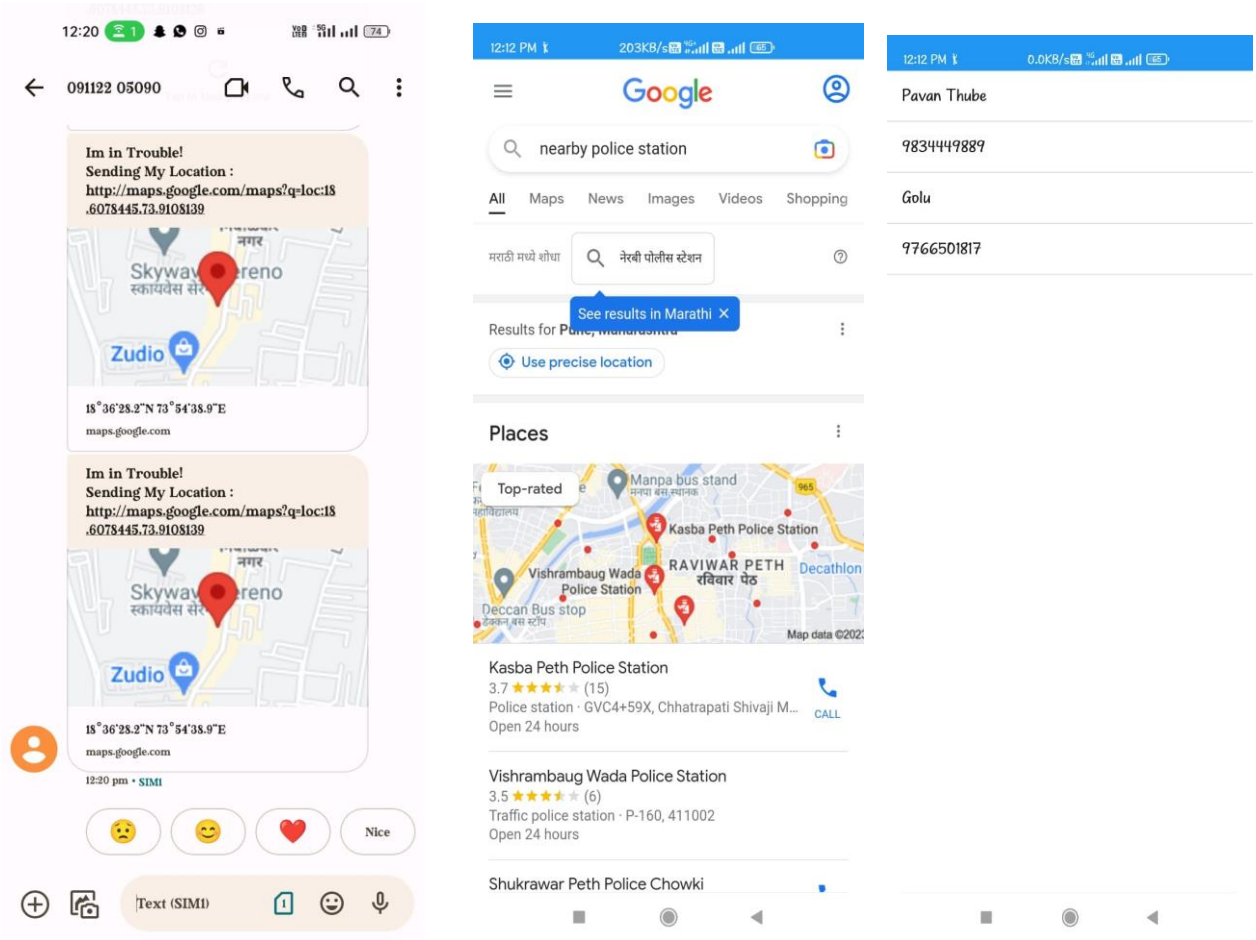


Fig 6.1

CHAPTER 7

CONCLUSION

To summarize, our product gives a free from even a hint of harm climate for ladies in the public eye, permitting them to work really hard into the night. Anybody contemplating perpetrating a wrongdoing against a lady will be halted, and the pace of wrongdoing against ladies will drop. This program will act as a weapon for ladies, shielding their wellbeing and security, and it will run on any Androids. Sadly, the wellbeing of ladies is in uncertainty and security isn't worried. Numerous titles actually running over against ladies shows that rising patterns of such rape assaults actually occurring in the present age. Around 80% of ladies are losing certainty and have dread of the acknowledgment of opportunity. So we are attempting to contribute little end beavers towards ladies which will guarantee the wellbeing and regard for ladies with the goal that she waterway so reserve the privilege to develop similarly like men. This portable application is particularly useful for anybody. This application will help the client by Adding the significant versatile numbers and send GPS area through the sms by shaking the cell phone and its additionally showing close by police headquarters by utilizing the google map . Here the client can play it safe prior to coming to the genuine risk. It is to let each lady is presently protected to travel solo as somebody is getting their refreshed area. For the future, we have in brain to broaden this application where she can likewise contact close by police headquarters if there should be an occurrence of need. This project that I have made is limited scale yet has an enormous advancement scope.

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