VISVESVARAYA TECHNOLOGICAL UNIVERSITY

"JNANA SANGAMA", BELAGAVI - 590 018

A MINI PROJECT REPORT

on

"CRIME REPORT APPLICATION"

Submitted by

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In partial fulfillment of the requirements for the VI semester

MOBILE APPLICATION DEVELOPMENT

of

BACHELOR OF ENGINEERING

in

INFORMATION SCIENCE & ENGINEERING

Under the Guidance of

Mr. B. Kranthi Kumar

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at

SAHYADRI

College of Engineering & Management

Adyar, Mangaluru - 575 007

2021 - 22

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CERTIFICATE

This is to certify that the **Mini Project** entitled **"Crime Report Application"** has been carried out by **Mohammed Rashiq H (4SF19IS051)** and **Nahez-Ul-Khair (4SF19IS052)**, the bonafide students of Sahyadri College of Engineering & Management in partial fulfillment of the requirements for the VI semester **Mobile Application Development (18CSMP68)** of **Bachelor of Engineering in Information Science & Engineering** of Visvesvaraya Technological University, Belagavi during the year 2021 - 22. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report deposited in the departmental library. The mini project report has been approved as it satisfies the academic requirements in respect of mini project work.

Mr. B. Kranthi Kumar	**Dr. Shamanth Rai**
Assistant Professor	Professor & HOD
Dept. of ISE, SCEM	Dept. of ISE, SCEM

External Practical Examination:

Examiner's Name	Signature with Date
1.	.....
2.	.....

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DECLARATION

We hereby declare that the entire work embodied in this Mini Project Report titled **"Crime Report Application"** has been carried out by us at Sahyadri College of Engineering and Management, Mangaluru under the supervision of **Mr. B. Kranthi Kumar** as the part of the VI semester **Mobile Application Development (18CSMP68)** of **Bachelor of Engineering** in **Information Science & Engineering**. This report has not been submitted to this or any other University.

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Abstract

Many day-to-day activities that are needed to be done, can be done by using the applications on a mobile. However, some activities that are done daily, in excessive amounts, are not digitalized yet. This leads to slower production of results, maintenance and efficiency. One such case is with reporting any sort of crimes or violations. In other words, an FIR Report. As the number of FIR complaints daily increases, with the ever-increasing population, it becomes more difficult to go through all the reports and act on them. It also makes it harder for a civilian to file a complaint with long queues and limited spaces. So, the main objective of this mobile application, FIR Report, is to make it easier for civilians to file a report if they happen to see any violation occur and want to report it on the spot. All these reports can then be moderated on the app from the administration side of things and filtered thoroughly.

Acknowledgement

It is with great satisfaction and euphoria that we are submitting the Mini Project Report on **"Crime Report Application"**. We have completed it as a part of the VI semester **Mobile Application Development (18CSMP68)** of **Bachelor of Engineering** in **Information Science & Engineering** of Visvesvaraya Technological University, Belagavi.

We are profoundly indebted to our guide, **Mr. B. Kranthi Kumar**, Assistant Professor, Department of Information Science & Engineering for innumerable acts of timely advice, encouragement and We sincerely express our gratitude.

We express our sincere gratitude to **Dr. Shamanth Rai**, Professor &Head, Department of Information Science & Engineering for his invaluable support and guidance.

We sincerely thank **Dr. Rajesha S**, Principal, Sahyadri College of Engineering & Management who have always been a great source of inspiration.

Finally, yet importantly, We express our heartfelt thanks to our family & friends for their wishes and encouragement throughout the work.

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Chapter 1

Introduction

In the rapidly evolving digital world we live in, mobile apps have been developed for almost every necessity we could consider. For the development of the crime sector, an application was introduced to be of aid to the crime investigation department as to reduce the workload. One of the officers of each branch could moderate all the reports and sort through them. This is beneficial to both, the civilians who can report an act of crime with ease to their respective police branch, and also to the workforce at the police department who can sift through all of the reports and distinguish the legitimate ones from the false claims.

1.1 Purpose

In most cases, in the day-to-day world, it is not an easy task for a regular citizen to go to the police department and file a complaint as there may be a huge queue for filing a report, as well as a bunch of piled up reports already existing in the department, which could lead to some of them being lost, or left unattended for a considerably long amount of time. This could affect the people who reported in a negative manner, and the culprits of the crime may get away with their crimes. So, this application helps the civilian file a report with ease, and the police department to moderate the reports.

1.2 Scope

This application will result in convenience for a regular civilian to file a report as they don't have to waste their time by waiting in queues which could last hours. Also, this will make it easier for them to file a report remotely, from wherever they had witnessed a violation of the law occur. These reports could then be accessed by the police department.

1.3 Overview

The main objective of the FIRse mobile application is to increase the convenience of both the civilians, and the workforce of the police department. The civilian will be able to file a report from wherever they are present, and will include the name of the location where the incident took place, and the description of the activity that occured. A timestamp will automatically be generated and sent to the database. The police administrator can then access all the reports and will also be able to see the e-mail through which the civilian has used to log in to and file the report. This makes it easier for the police to note down trusted civilians and differentiate them from those who file false claims, which they can reject the report.

Chapter 2

Requirements Specification

2.1 Hardware Specification

- Processor : Intel(R) Core(TM) i5-9300H CPU @ 2.40GHz
- RAM : 8GB
- Hard Disk : 1TB
- Input Device : Standard keyboard and Mouse
- Output Device : Monitor

2.2 Software Specification

- Programming Language :Java and XML
- IDE :Android Studio
- Database: Firebase

Chapter 3

System Design

3.1 Architecture Diagram

The architecture diagram of the application is as shown in the below figure:

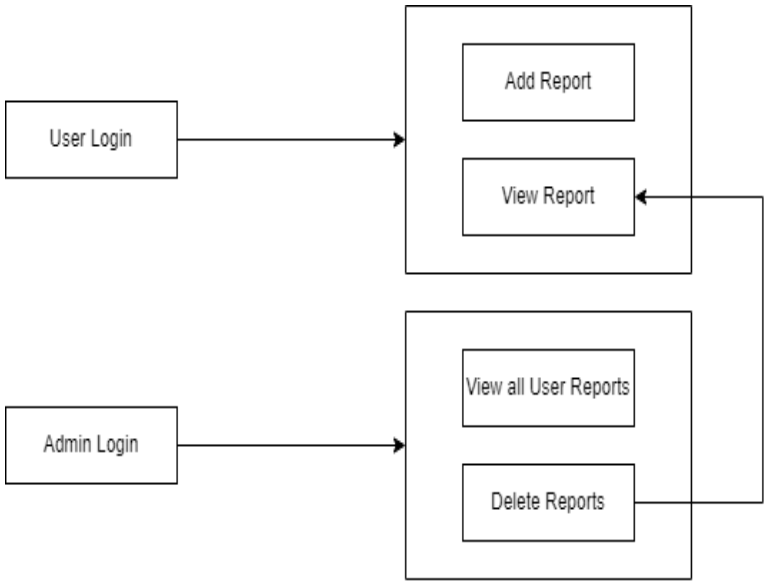


Figure 3.1: System Architecture Diagram

The user will log-in through the main page. The user will be greeted with a screen where they can check their previously filed reports, or choose to create a new report. The admin will be able to log-in through the admin login page, which requires a secret login code. Upon entering the code correctly, the admin will be able to view the reports filed by all users and can reject any of the reports if found to be false

Chapter 4

Implementation

4.1 Administrator Module

Pseudocode for admin login page:

This below code is for the admin login page. The admin will login through a secret password, and will be directed to another page.

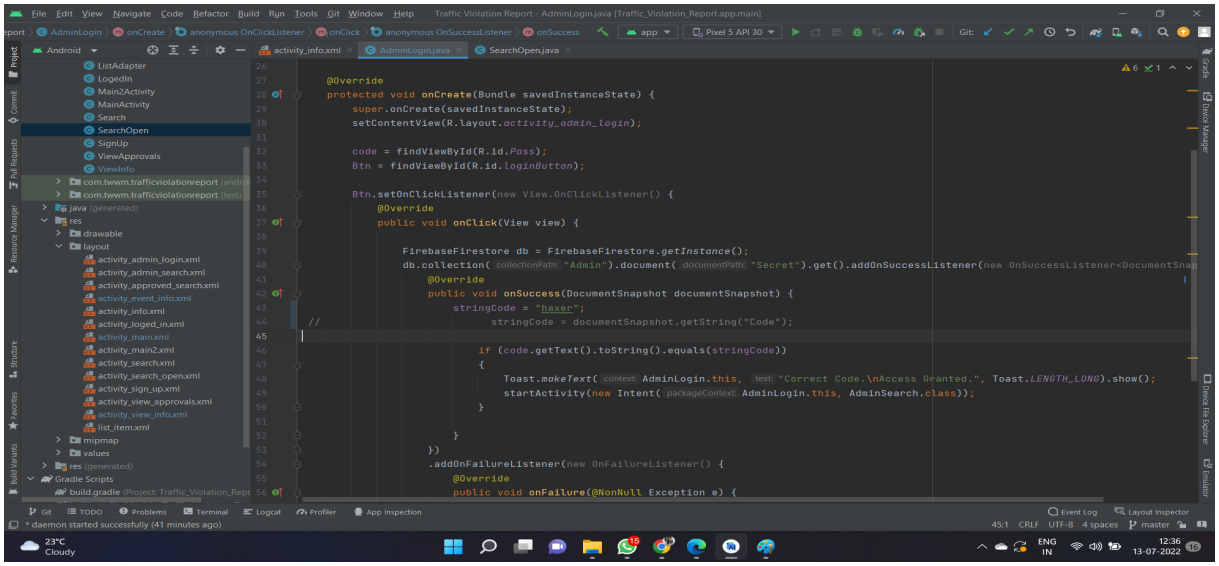


Figure 4.1: Pseudocode for admin login page

Pseudocode for admin menu page:

This below code is for the admin meu page. Once the admin successfully logins to the app, he will be able to view all of the reports filed by the different users. The admin can also reject any of the reports filed by the users

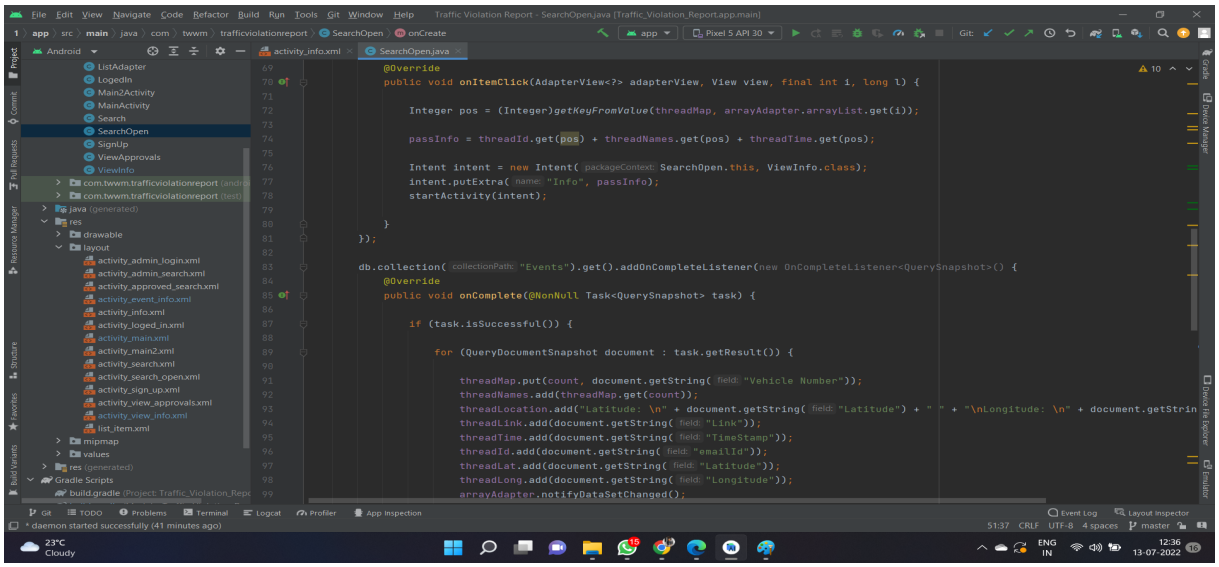


Figure 4.2: Pseudocode for admin menu page

Pseudocode for admin approval page:

This below code is for the admin approval page. The admin will be able to view the details of a specific report and also reject the report through this page.

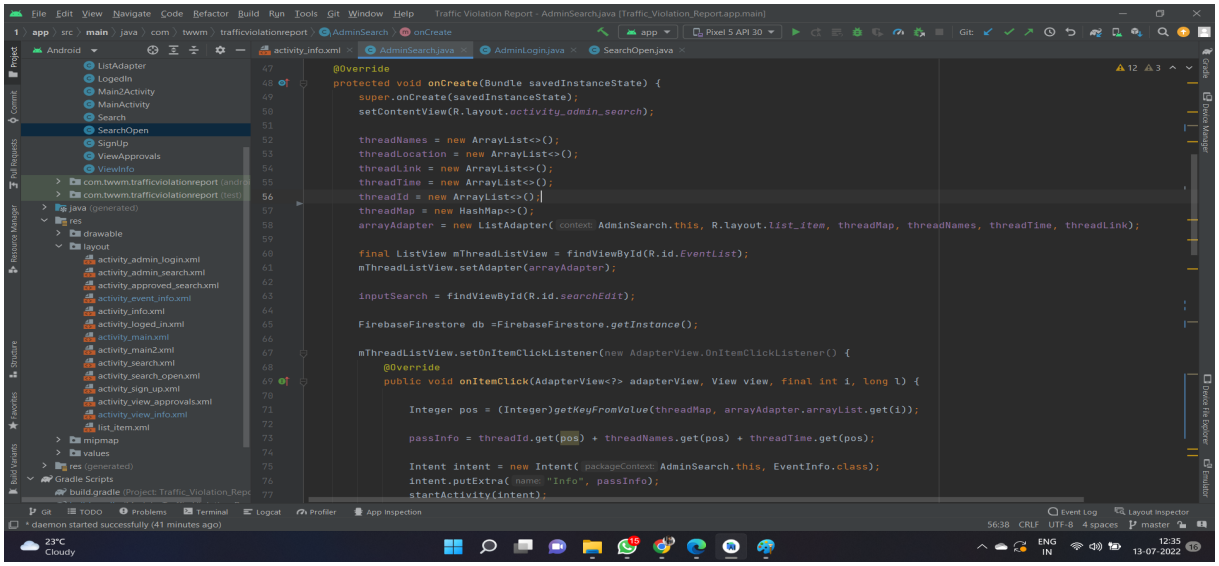


Figure 4.3: Pseudocode for admin approval page

4.2 User Module

Pseudocode for user login page:

This below code is for the user login page. The user will be able to login through this page by username, which is e-mail and password after he has registered himself on the application.

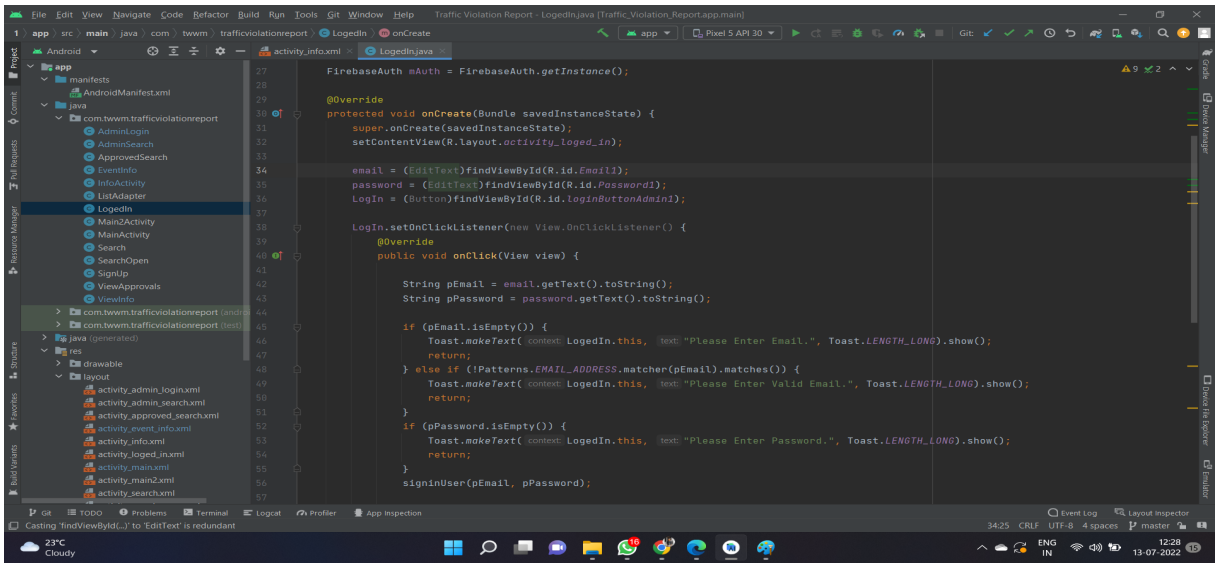


Figure 4.4: Pseudocode for user login page

Pseudocode for user menu page:

This below code is for the user home page. After the user successfully logs in, he will be directed to the home page where he can either choose to file a new report or view his existing reports.

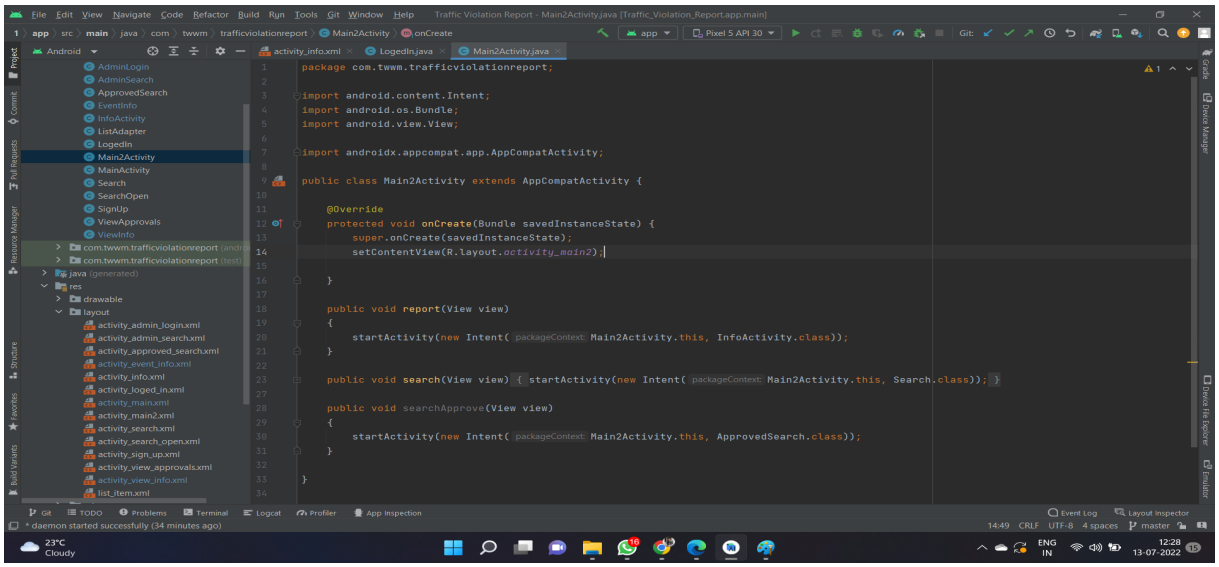
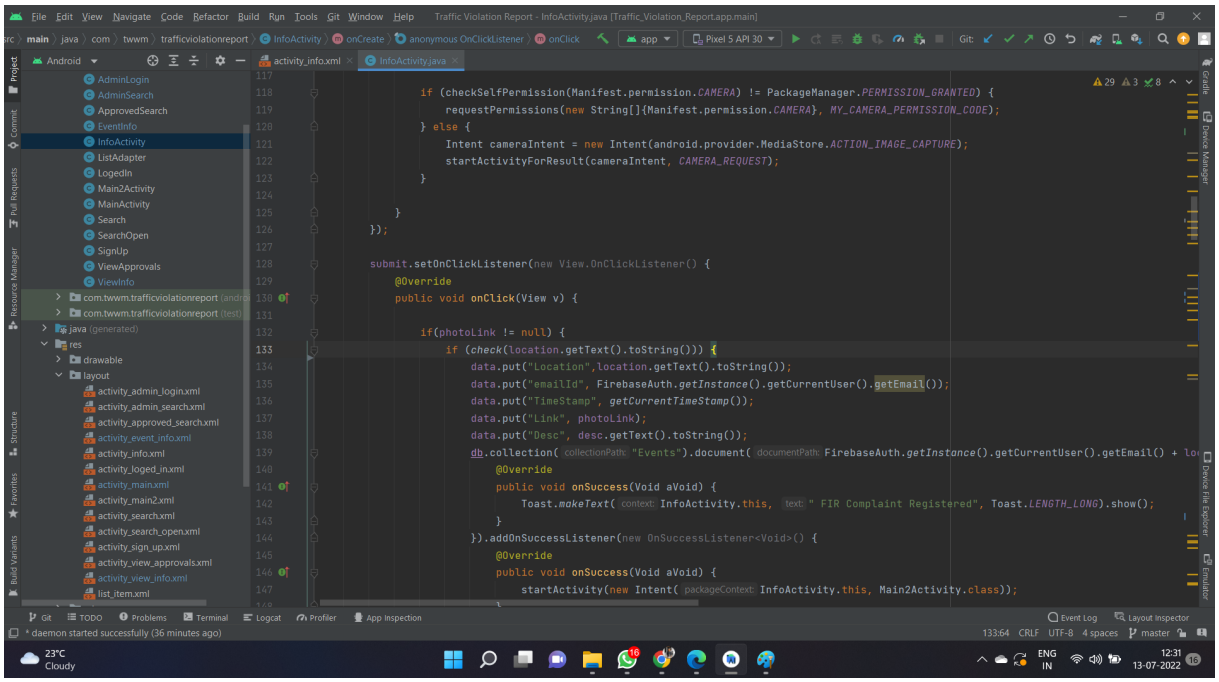


Figure 4.5: Pseudocode for user menu page

Pseudocode for user report page:

This below code is for the user report page. After the user successfully logs in and goes to the report page, he can file a report by providing a title to label the violation and also the location and description of the act.



```
if (checkSelfPermission(Manifest.permission.CAMERA) != PackageManager.PERMISSION_GRANTED) {
    requestPermissions(new String[]{Manifest.permission.CAMERA}, MY_CAMERA_PERMISSION_CODE);
} else {
    Intent cameraIntent = new Intent(android.provider.MediaStore.ACTION_IMAGE_CAPTURE);
    startActivityForResult(cameraIntent, CAMERA_REQUEST);
}

}
});

submit.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v) {

        if(photoLink != null) {
            if (check(location.getText().toString())) {
                data.put("Location",location.getText().toString());
                data.put("emailId", FirebaseAuth.getInstance().getCurrentUser().getEmail());
                data.put("TimeStamp", getCurrentTimeStamp());
                data.put("Link", photoLink);
                data.put("Desc", desc.getText().toString());
                db.collection( collectionPath: "Events").document( documentPath: FirebaseAuth.getInstance().getCurrentUser().getEmail() + lo
                    @Override
                    public void onSuccess(Void aVoid) {
                        Toast.makeText( context: InfoActivity.this, text: " FIR Complaint Registered", Toast.LENGTH_LONG).show();
                    }
                }).addOnSuccessListener(new OnSuccessListener<Void>() {
                    @Override
                    public void onSuccess(Void aVoid) {
                        startActivity(new Intent( packageContext: InfoActivity.this, Main2Activity.class));
```

Figure 4.6: Pseudocode for user report page

Chapter 5

Results and Discussion

Log In activity:

Using this page the user will be able to log in.The user has to enter the e-mail id and password he used to register the account

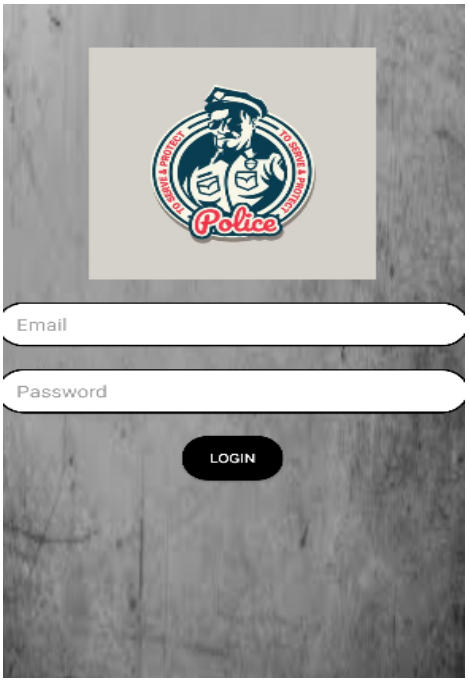


Figure 5.1: Log in page

User home page:

Using this page, the fser will be able to select any of the options, either to file a new report or to check all his existing reports.

Figure 5.2: User home page

User report page:

Using this page, the user will be able to file a report by providing a location name and a description of what he wants to report.

Figure 5.3: User report page

Main menu page:

This is the first page that is loaded when the app is run. This has the options of creating a new account, logging in to an existing account or logging in through the admin section

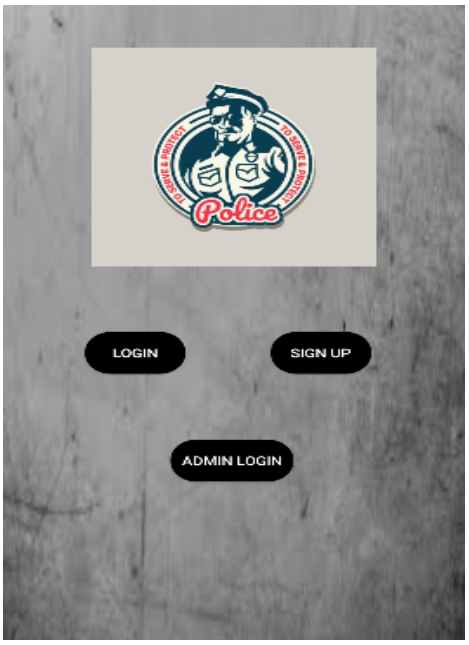


Figure 5.4: Main menu page

Admin report page: Using this page, the admin can check the details of whichever report he clicks on, including through which e-mail they sent it with, and the report's description

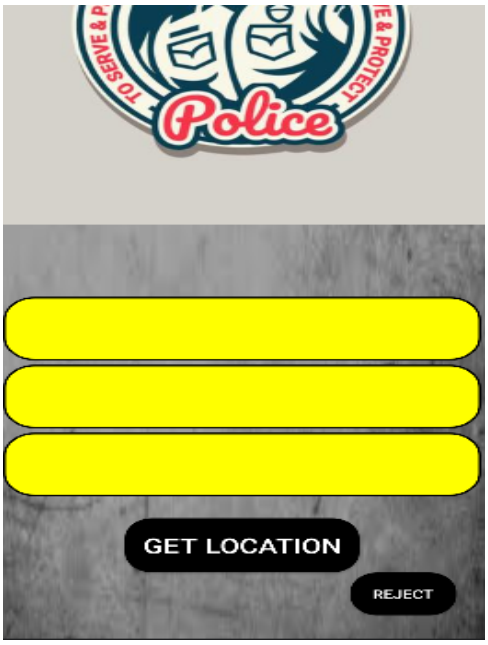


Figure 5.5: Admin report page

Chapter 6

Conclusion and Future work

Crime Report Application will greatly reduce the burden of the police department in handling all the reports by filtering through them using the application, and can then categorise them and assign them to different departments to act on these reports. They will get the details provided by the person who reported, such as the name of the location and the description of the activity, along with the date and time of when the report was sent and the e-mail of the person who filed the report.

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