

Advance Software Engineering

Final Project Report

Team No 17

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Table of Contents

<u>Topic</u>	<u>Page no</u>
Motivation & Decision	3
Introduction	4
Project Deployment & Project Management	5
Project Proposal	19
Project Plan	20
First Increment	25
Second Increment	25
Third Increment	26
Fourth Increment	26
Testing	27
Project Management	29
Presentation Slide	30

Motivation & Decisions:

In the day to day life, the crime rate has increased a lot. The main reason for this increment is due to lack of aware \ness of the criminal data to the general public. This lack of knowledge to the public has motivated us to develop an application which is convenient to all the people and through which every individual can know about all the criminals present around them in there current location. According to there current location he/she can have details of the criminal at that location and beware of the surroundings.

There is no specific protocol for communication regarding the emergency situations. This leaded me to think wise and bring an application to communicate when they are in emergency situations.

By considering all the possibilities and directions in order to solve the above problem we have come to conclusion that to develop an android application which gives an opportunity for having an access to most of the people. In the application we give details of criminal which are uploaded by the police to the public and public can send the emergency notification to the police.

Introduction:

The Police have been handling crime-related issues for people. The Police is using some paper works and they have go through control room staff to track these details. This will take some time and even they miss some important criminals they have to catch immediately. To tackle the problems from our application police can search for criminals and their records in their hands. This application will useful to police for crime prevention, detection, conviction of criminals depending on a backbone of Information Management. This app gives an opportunity for having an access to most of the people. In the application we give details of criminal which are uploaded by the police to the public and public can send the emergency notification to the police.

PROJECT DEPLOYMENT AND PROJECT DEVELOPMENT

Login page in android:

Once we open the app it will display the login page we can login with already registered credentials. In our app we have two modules 1. Police module and 2. Public module Based on our login mail address it will take to their respective modules.

If we give mail address like @police.com it will take to the police module

CriminalDatabase

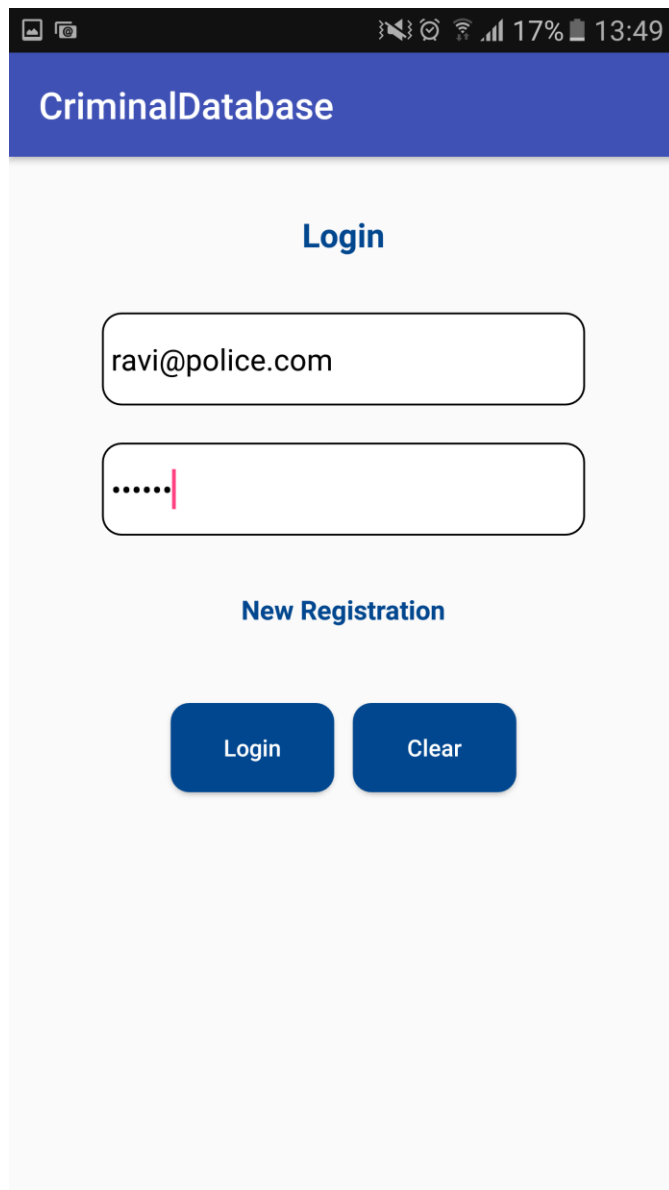
Login

sanjayreddy1108@gmail.com

.....

New Registration

LoginClear



The image shows a mobile application interface for 'CriminalDatabase'. At the top, there is a status bar with icons for signal, Wi-Fi, battery (17%), and time (13:49). Below the status bar is a blue header with the text 'CriminalDatabase'. The main content area is light gray and contains a 'Login' section with two input fields. The first field contains the email 'ravi@police.com' and the second field contains masked characters '.....'. Below the login fields is a 'New Registration' section with two blue buttons labeled 'Login' and 'Clear'.

CriminalDatabase

Login

ravi@police.com

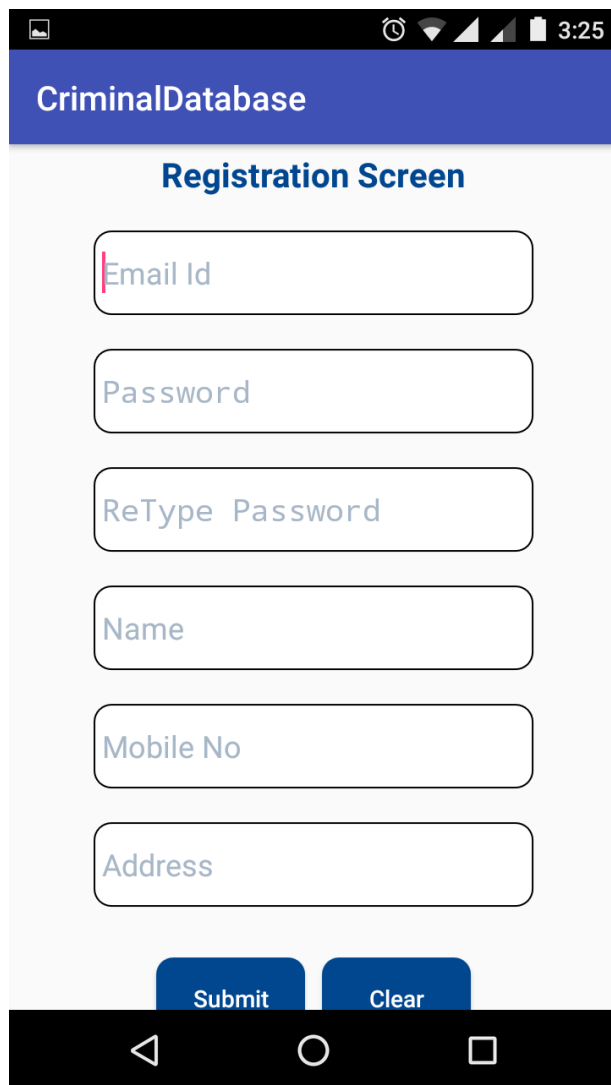
.....

New Registration

Login Clear

Registration page in the android application:

Once we click on registration page on sign in page we will get the signup page we can signup with our details



The screenshot displays the 'Registration Screen' of an Android application titled 'CriminalDatabase'. The screen features a series of input fields for user registration: 'Email Id', 'Password', 'ReType Password', 'Name', 'Mobile No', and 'Address'. At the bottom, there are two buttons labeled 'Submit' and 'Clear'. The interface is set against a light gray background with a blue header bar. The status bar at the top shows the time as 3:25 and various system icons.

CriminalDatabase

Registration Screen

Email Id

Password

ReType Password

Name

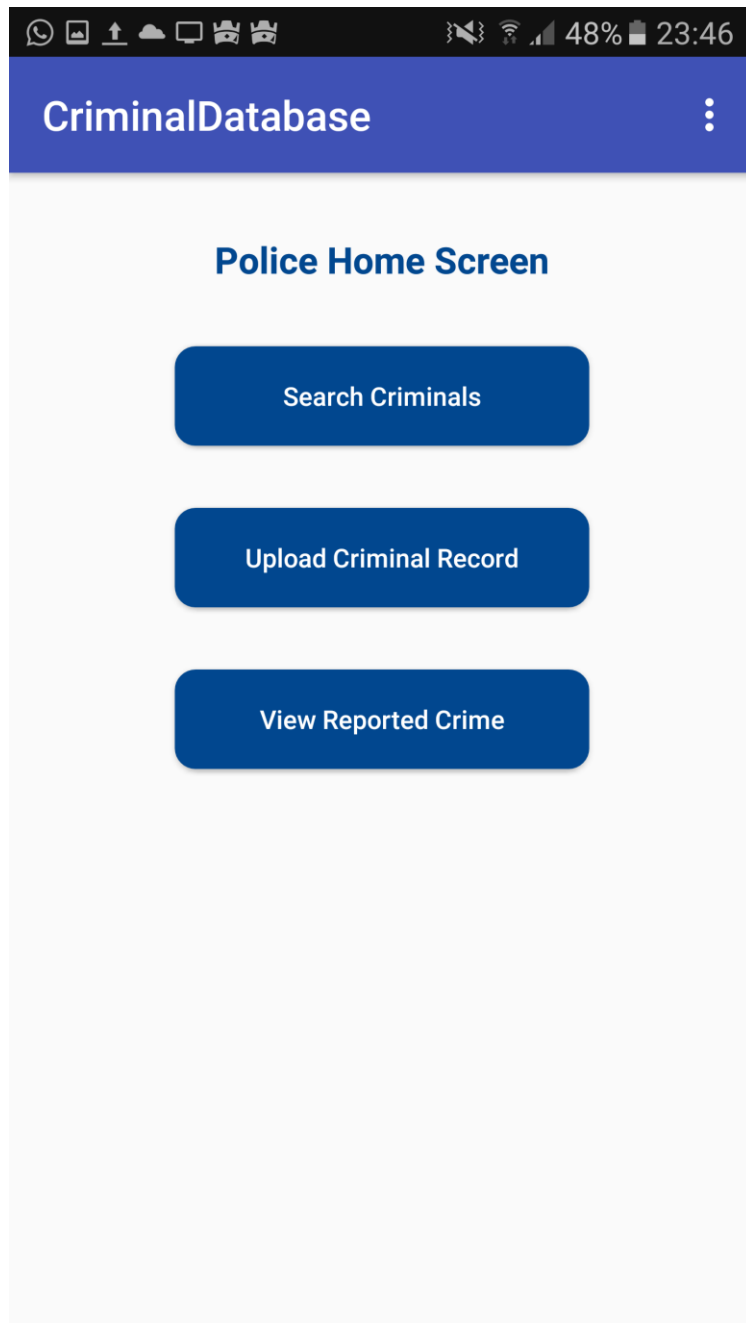
Mobile No

Address

Submit Clear

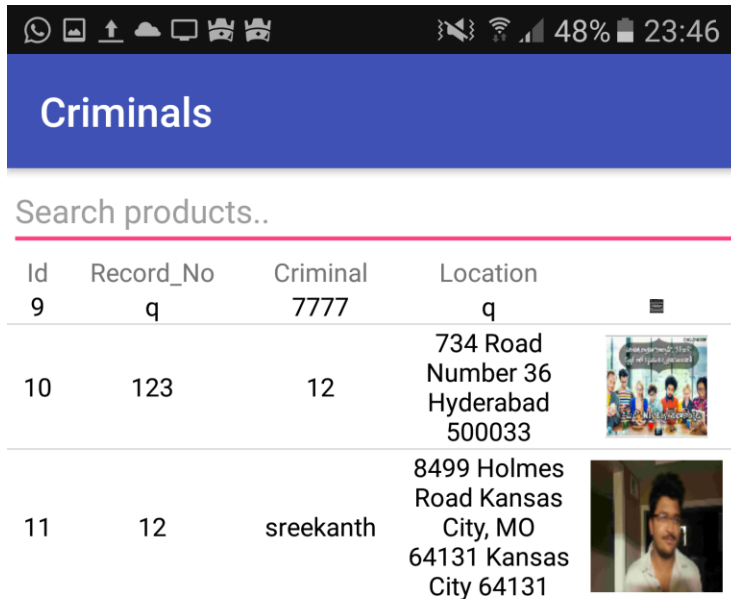
Police module home page:

Once we login with police credentials we get the police module homepage

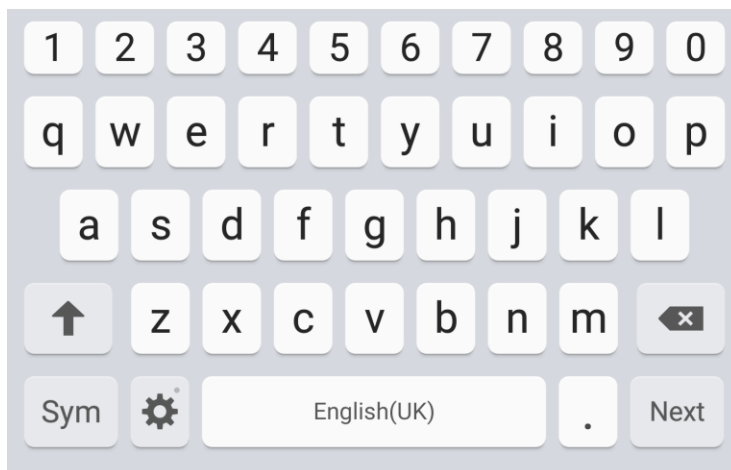


Search criminals in police module:

If police want to add a criminal first he need to check whether we have already this criminal or we can search a criminal for his crime record

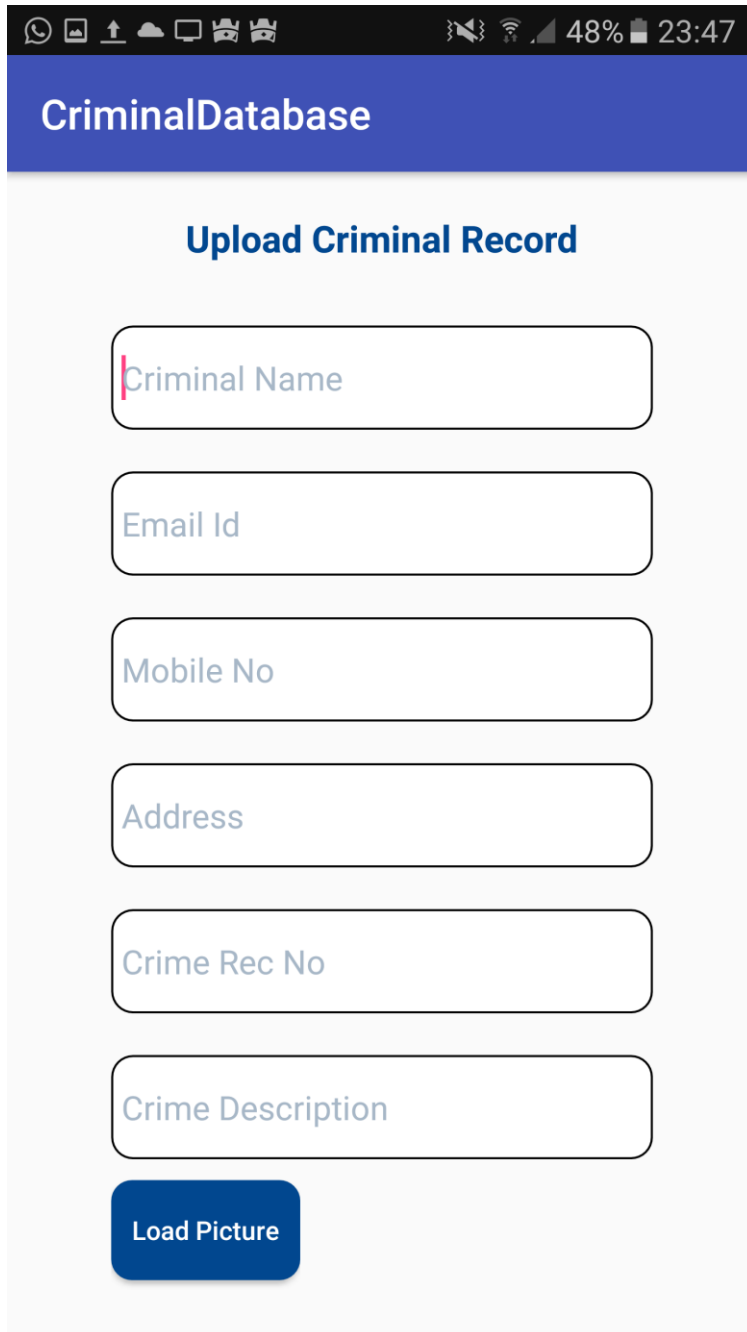


Id	Record_No	Criminal	Location
9	q	7777	q
10	123	12	734 Road Number 36 Hyderabad 500033
11	12	sreekanth	8499 Holmes Road Kansas City, MO 64131 Kansas City 64131



Upload criminal record:

If we found a crime then police can upload the crime. We can give criminal image and crime location also



The screenshot shows a mobile application interface for uploading a criminal record. At the top, there is a status bar with various icons and a battery level of 48% at 23:47. Below the status bar is a blue header with the text "CriminalDatabase". The main content area has a light gray background and is titled "Upload Criminal Record" in bold blue text. Below the title, there are six white input fields with rounded corners, each containing a placeholder text: "Criminal Name", "Email Id", "Mobile No", "Address", "Crime Rec No", and "Crime Description". At the bottom of the form is a blue button with white text that says "Load Picture".

CriminalDatabase

Upload Criminal Record

Criminal Name

Email Id

Mobile No

Address

Crime Rec No

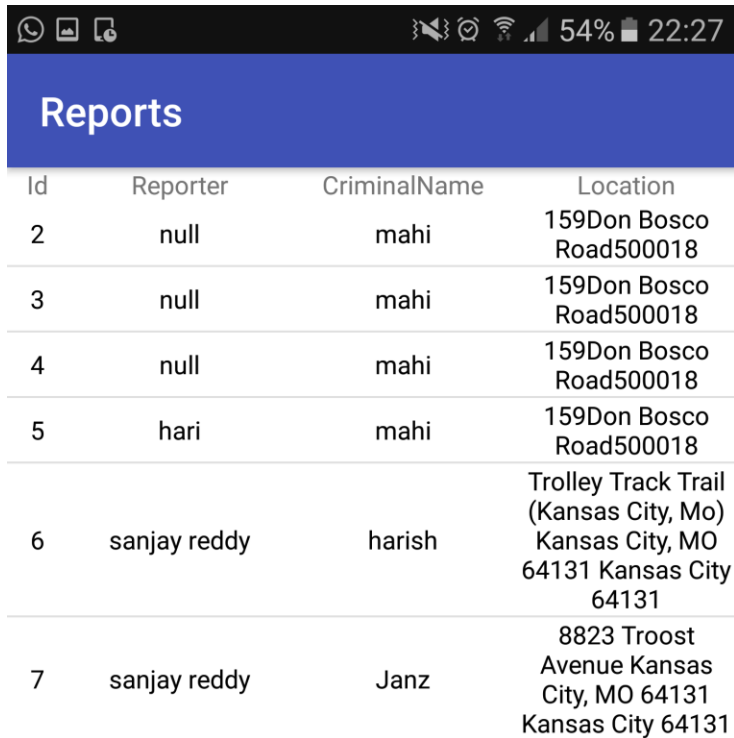
Crime Description

Load Picture



View reported criminals:

If some public report a criminal then he can see the reported criminals in this page

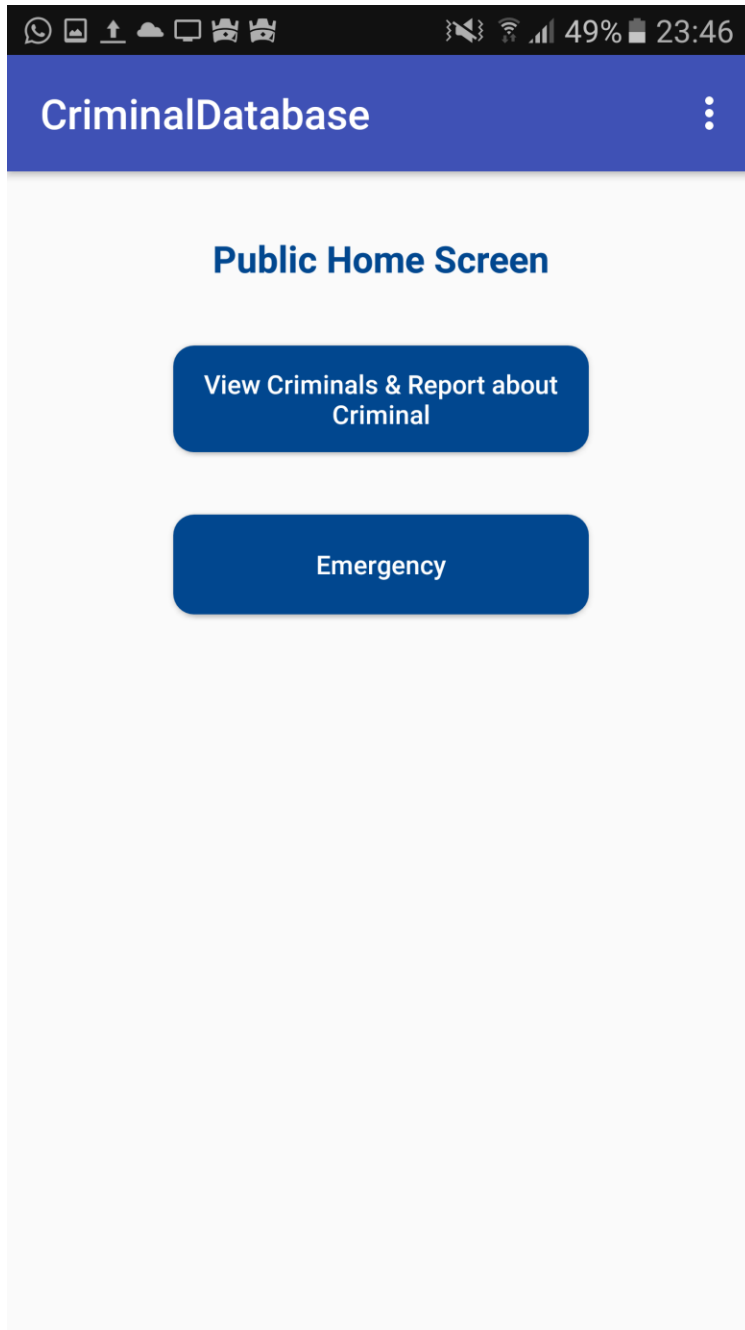


The image shows a mobile application interface for viewing reported criminals. At the top is a status bar with icons for notifications, signal, and battery (54%), and the time 22:27. Below the status bar is a blue header with the word 'Reports' in white. The main content is a table with four columns: Id, Reporter, CriminalName, and Location. The table contains seven rows of data.

Id	Reporter	CriminalName	Location
2	null	mahi	159Don Bosco Road500018
3	null	mahi	159Don Bosco Road500018
4	null	mahi	159Don Bosco Road500018
5	hari	mahi	159Don Bosco Road500018
6	sanjay reddy	harish	Trolley Track Trail (Kansas City, Mo) Kansas City, MO 64131 Kansas City 64131
7	sanjay reddy	Janz	8823 Troost Avenue Kansas City, MO 64131 Kansas City 64131

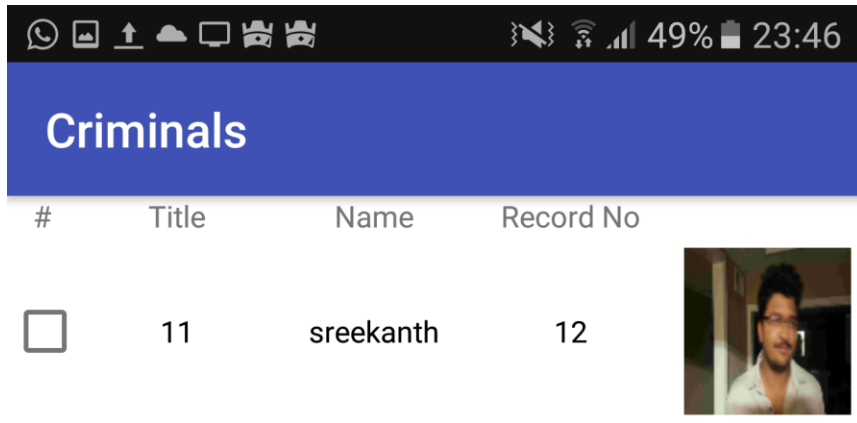
Public module Home page:

Once we login with public user credentials we can see the public module home page. It has report a criminal option and emergency button.

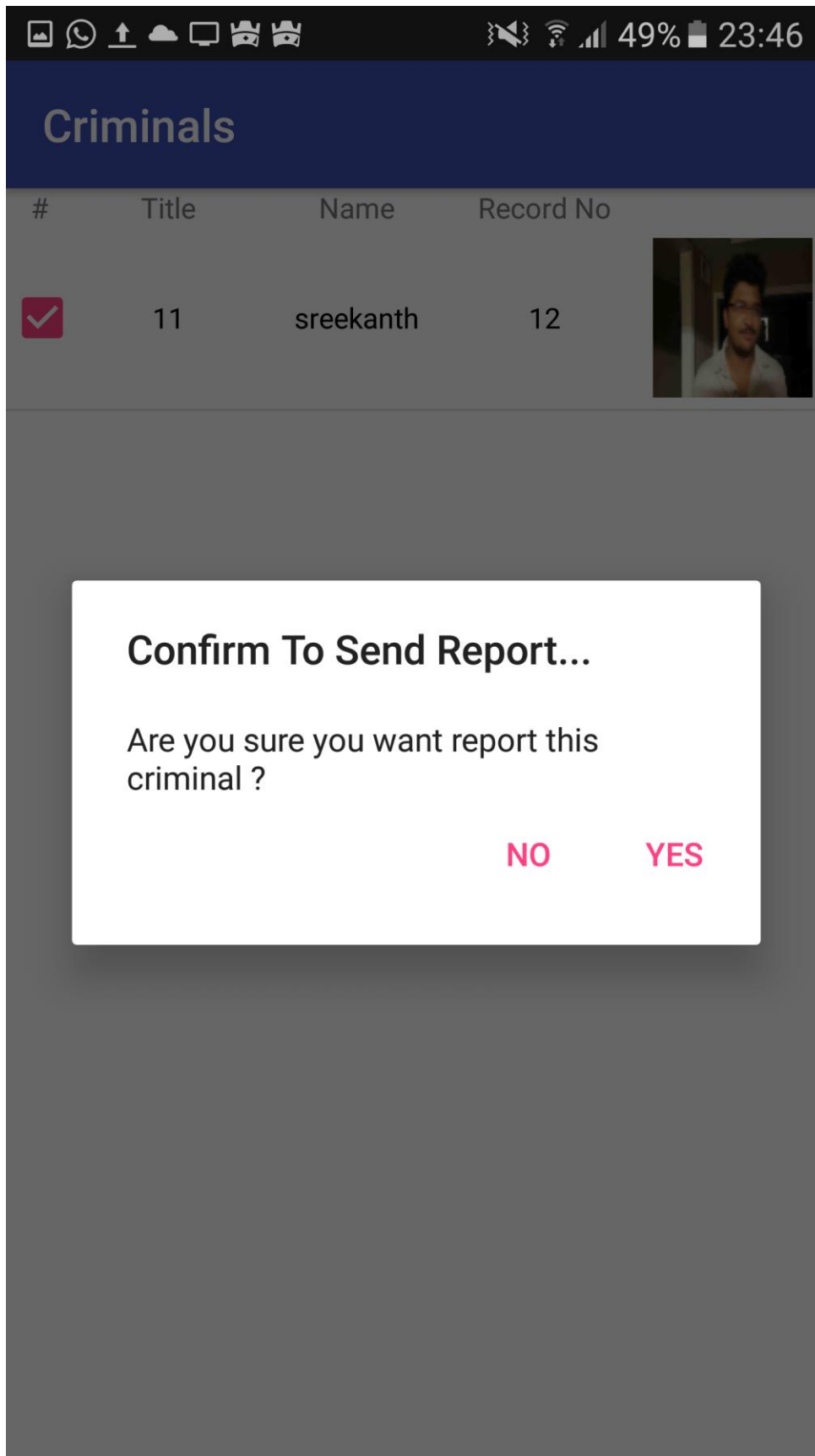


View criminals and report a criminal:

Once we click on we can see the criminals and if we come across a criminal we can report about the criminal.

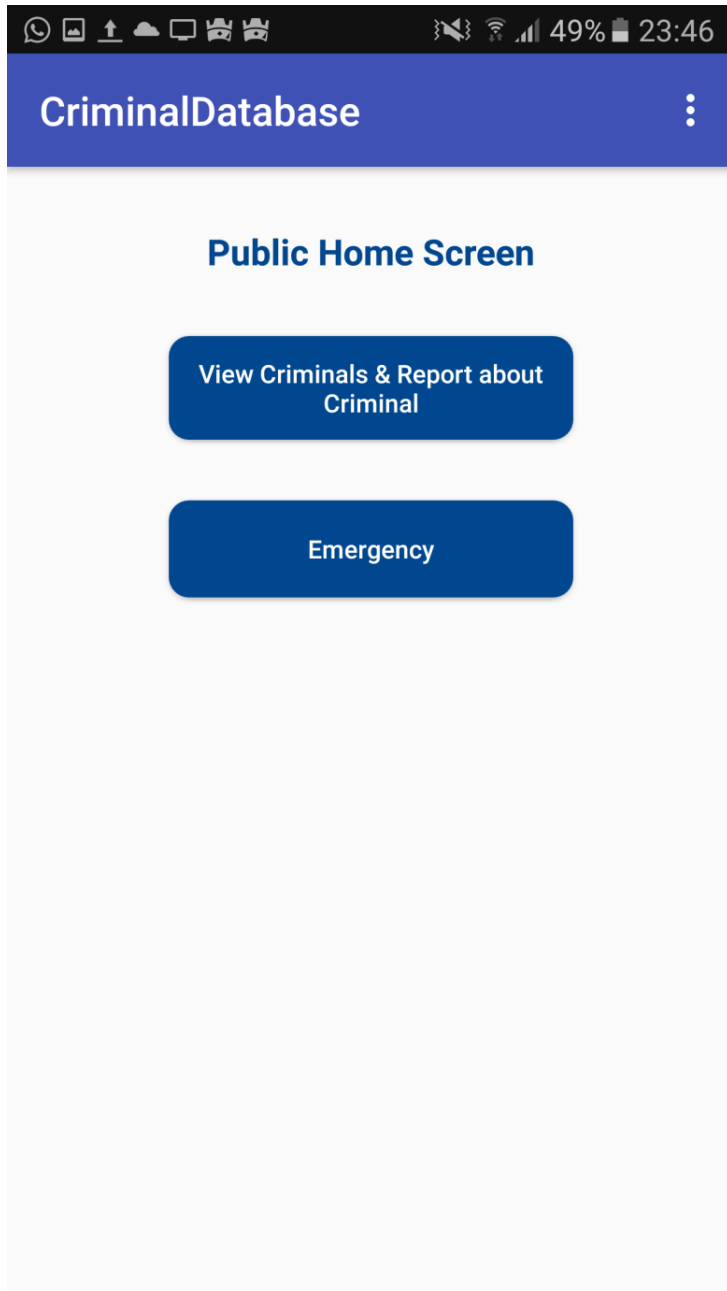


#	Title	Name	Record No
<input type="checkbox"/>	11	sreekanth	12



Emergency button:

If we click on emergency button a notification will be send to all the cops. Who is near by police he will go there

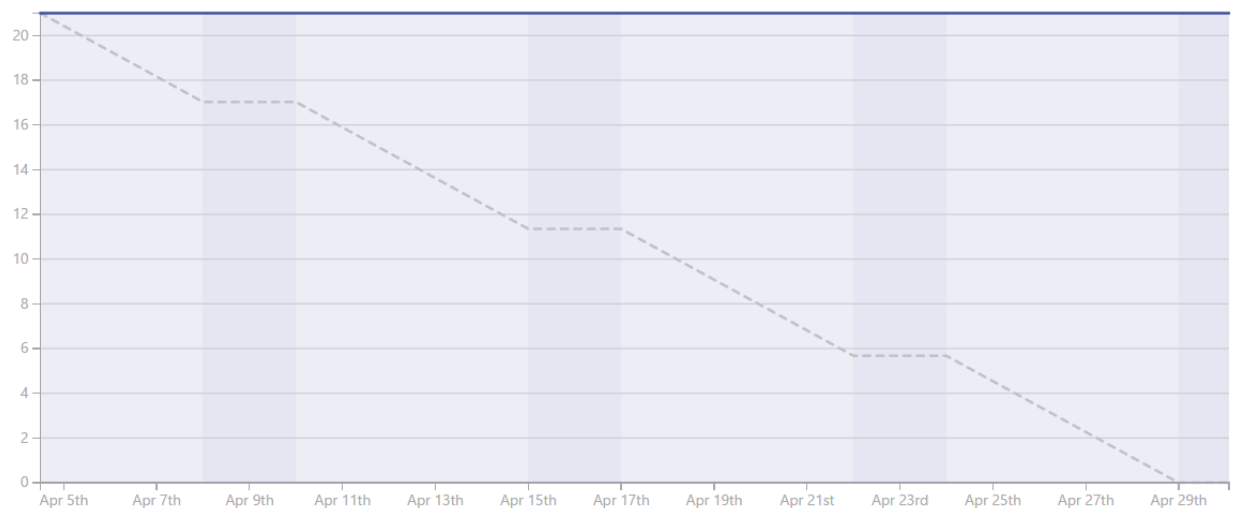


Project Management:

Issues:

<input type="checkbox"/>	11 Open ✓ 1 Closed	Author ▼	Labels ▼	Projects ▼	Milestones ▼	Assignee ▼	Sort ▼
<input type="checkbox"/>	Fixing errors and making improvements enhancement #13 opened on Feb 17 by vikkas111 Increment 4						
<input type="checkbox"/>	finding errors and looking for improvements enhancement #12 opened on Feb 17 by vikkas111 Increment 4						
<input type="checkbox"/>	Unit test enhancement #10 opened on Feb 17 by vikkas111 Increment 3						
<input type="checkbox"/>	Dashboard enhancement #9 opened on Feb 17 by vikkas111 Increment 3						
<input type="checkbox"/>	integrating search api's enhancement #8 opened on Feb 17 by vikkas111 Increment 2						
<input type="checkbox"/>	Home page enhancement #7 opened on Feb 17 by vikkas111 Increment 2						
<input type="checkbox"/>	Signup form enhancement #6 opened on Feb 17 by vikkas111 Increment 1						
<input type="checkbox"/>	Creating login page enhancement #5 opened on Feb 17 by vikkas111 Increment 1						
<input type="checkbox"/>	Application Logo enhancement #4 opened on Feb 17 by vikkas111 Increment 1						
<input type="checkbox"/>	Wireframes for increment 1 enhancement #3 opened on Feb 17 by vikkas111 Increment 1						
<input type="checkbox"/>	UML Diagrams enhancement #2 opened on Feb 17 by vikkas111 Increment 1						

Burndown chart:



Project Proposal

Project Goal and Objectives :

- **Overall goal:**

Main goal of this application is to search for a criminal and gets their details based on search so that it is easy for police to catch the criminals.

Public can have the data regarding the criminal and the send his emergency information to the police.

Objectives:

We have following objectives for **Criminal Database** system to be able to function as all-inclusive system to get information of the criminal to public and reporting the criminal to police:

- Develop an android application which will be able to record Criminal details by the cops in the police module
- Develop an application which will give information of the criminal to the public.
- Develop an application which can give notification of the emergency situation to police from the public module.
- Develop an application which can report an criminal location by the public from public module to the police in the police module.

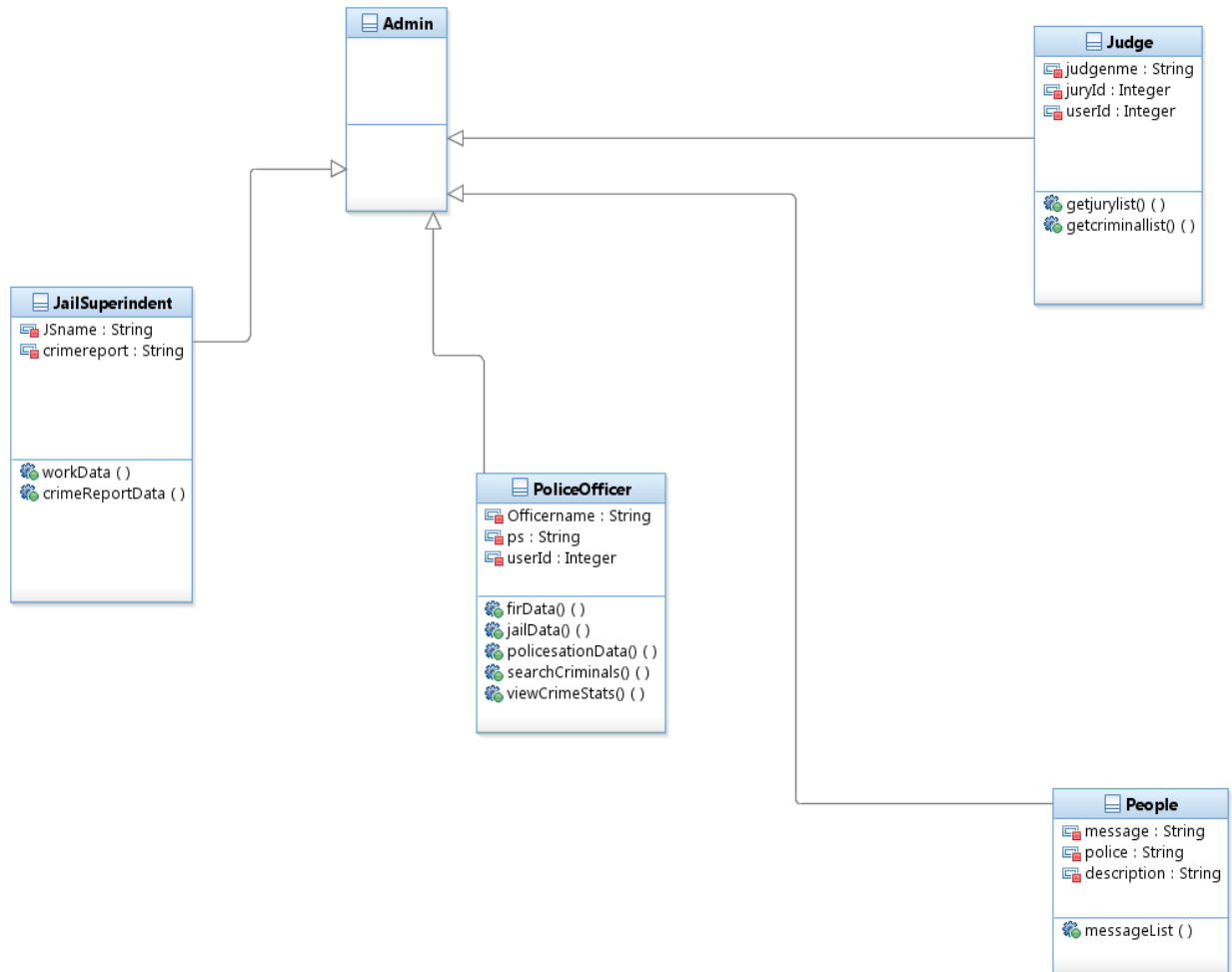
Features:

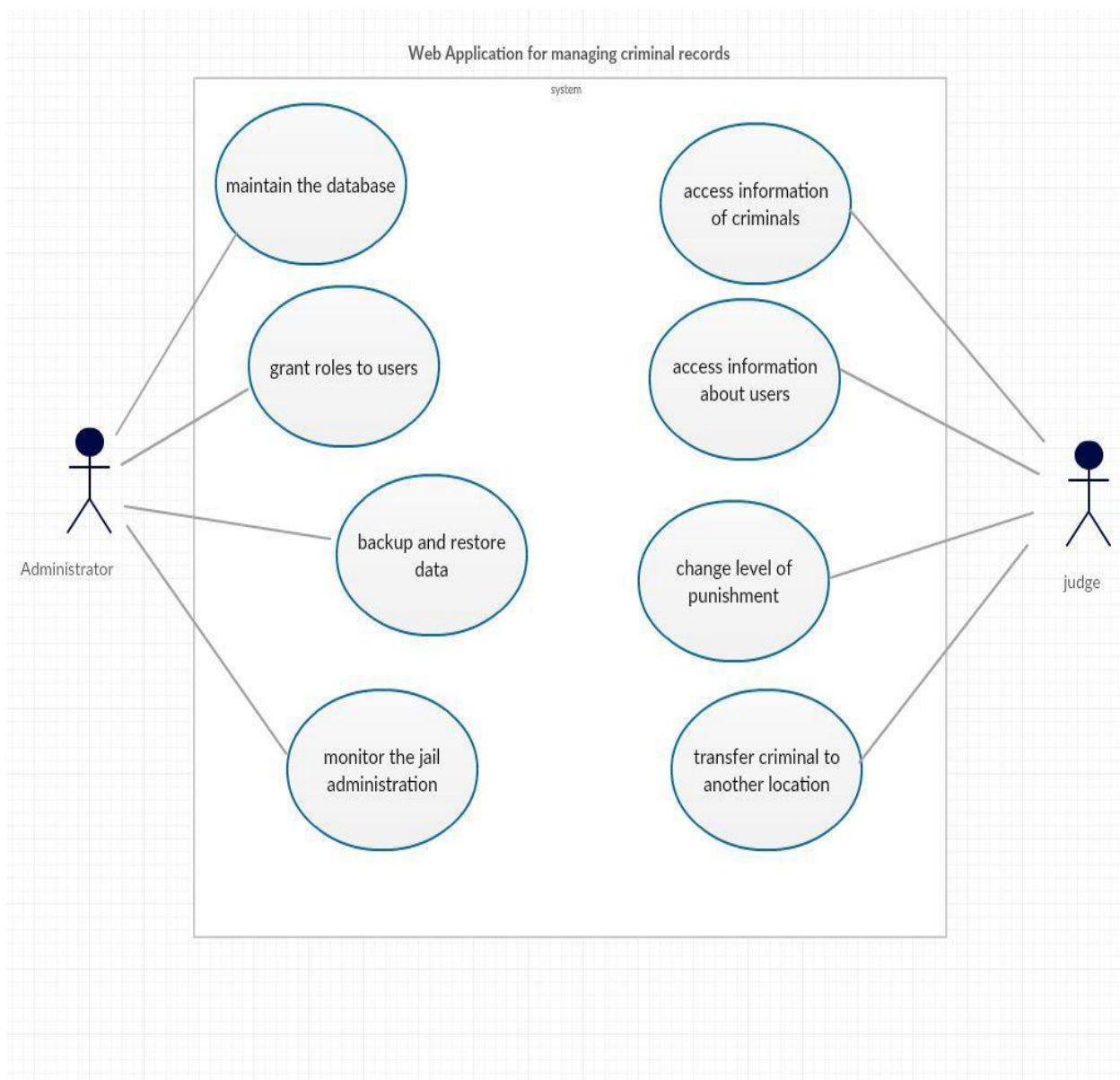
Features we are deploying are:

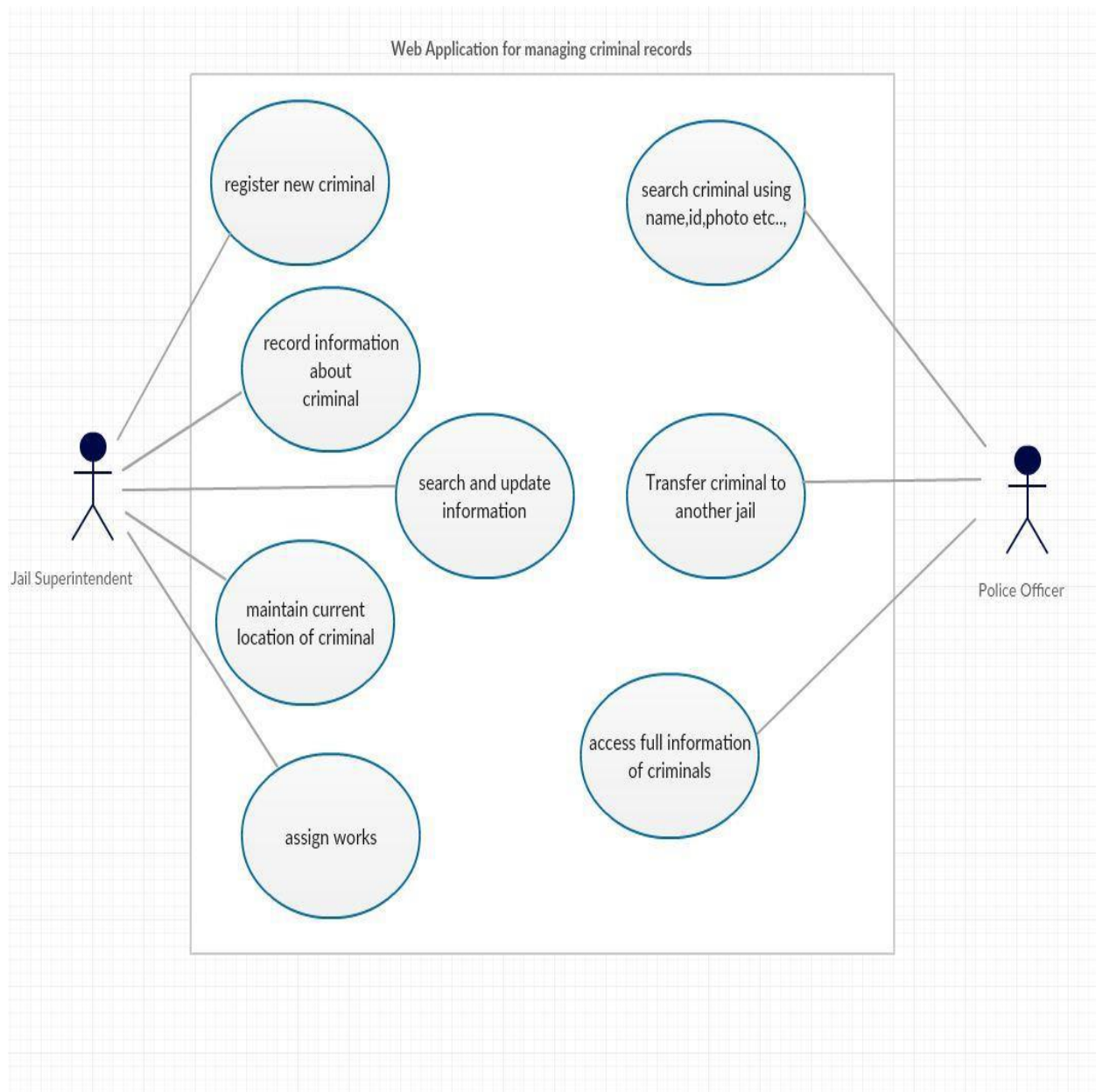
- Login and Registration for Application
- Add Criminal information by the police
- Display Criminal info for the public
- Google API for uploading the criminal location.
- Search the criminal and reported criminal in the database
- Reporting the criminals by the public
- Emergency alerts by the public to the police
- Looking the reported criminal in police module

PROJECT PLAN

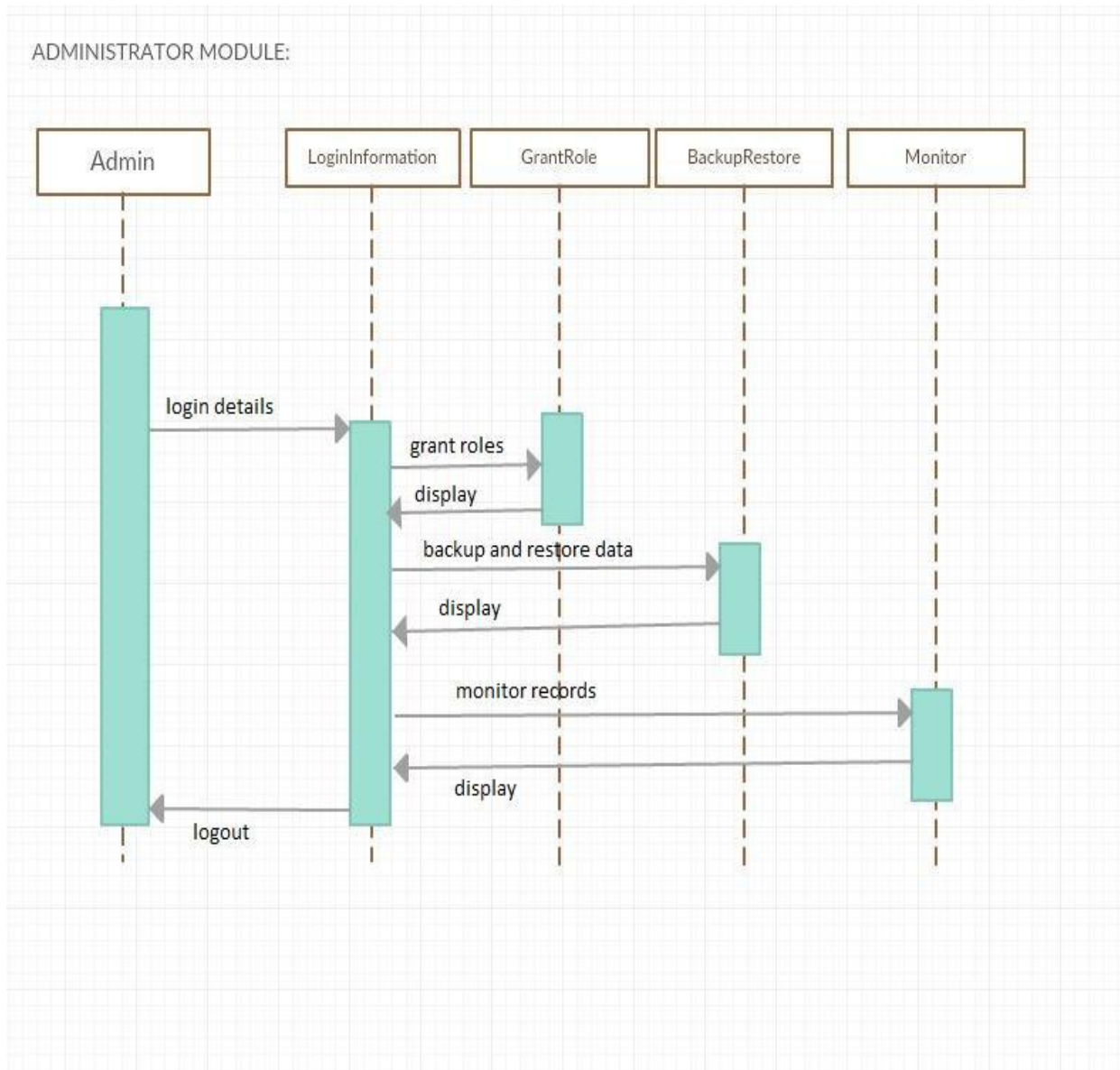
Class diagram:



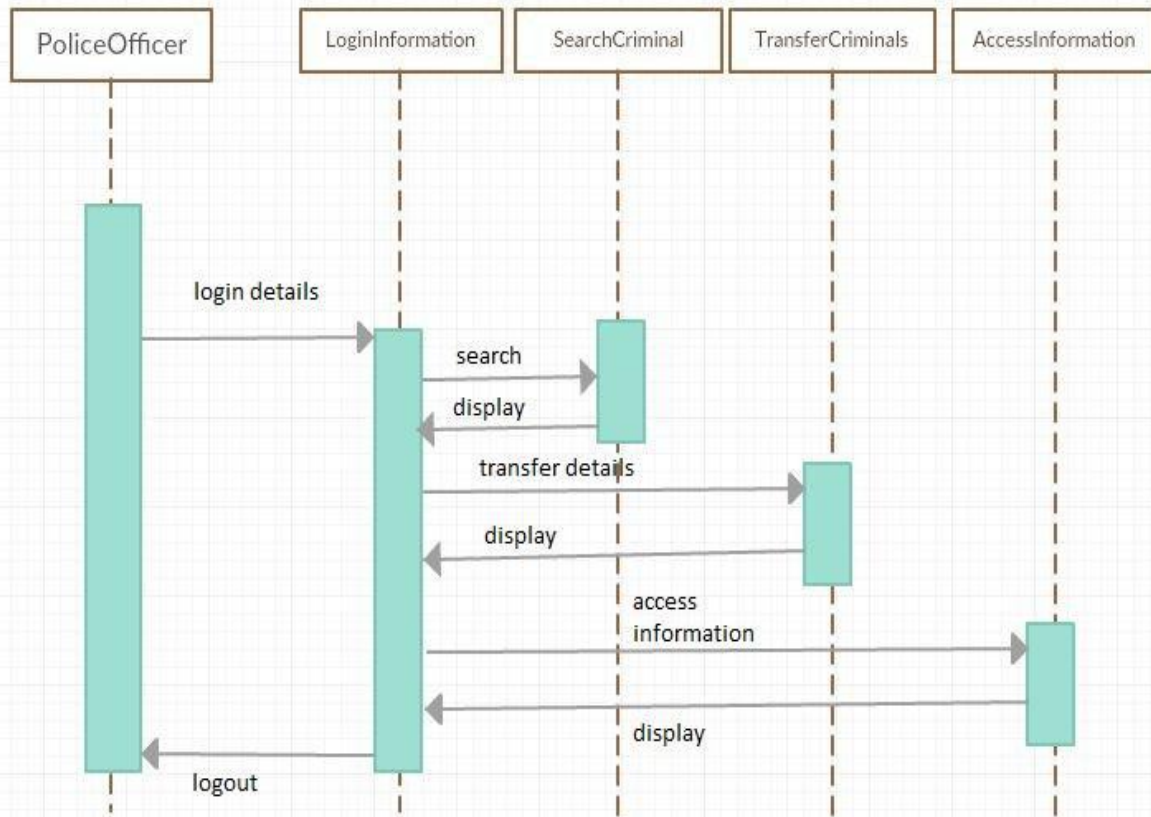
Use case diagram:



Sequence diagram:



POLICE OFFICERS MODULE:



First Increment Report

Implementation

In First Increment we have implemented following features:

- Login for the application.
- Registration for the application

First Increment Report:

<https://github.com/vikkas111/ASE-PROJECT/wiki/Increment-1>

Second Increment Report

Implementation

In Second Increment we have implemented following features:

- Main Activity
- Police module design
- Criminal Record upload

Second Increment Report:

<https://github.com/vikkas111/ASE-PROJECT/wiki/Increment-2>

Third Increment Report

Implementation

In Third Increment we have implemented following features:

- Changed the layout of the previous application.
- Public Module design
- Implemented the report function in public

Third Increment Report:

<https://github.com/vikkas111/ASE-PROJECT/wiki/Increment-3>

Fourth Increment Report

Implementation

In Fourth Increment we have implemented following features:

- Implemented the DATA Base connection
- Gave the emergency function in the public module
- Searching of the criminal data in the police module.
- Getting the connection between the police and Public for showing the notifications.

Fourth Increment Report

<https://github.com/vikkas111/ASE-PROJECT/wiki/Increment-4>

Project Management

Work Completed:

- Design and Architecture of the Application
- Login and Registration.
- Gather Information on Criminal Database.
- Home Page Creation.
- Add Public module.
- Add Police module.
- Google maps API in police module.
- Police receive notifications when emergency button is clicked.
- Deploying the application .
- Improving the User Interface of the application.

Contributions:

Ravi Teja soma	Shashank Reddy yata	Vikas koduri	Sanjay Reddy
Login Page and registration page	Wireframes and UML	Gather criminal information and API's and UML	Project Plan Documentation
Reminder Scheduling based on saved data	Police module home page	Police module login page	Update Activity creation
Google map api in upload criminals	Worked on Notification Activity	UI and Documentation	Worked on search criminals
Database concetivity	Documentation and Test Cases	Entire GUI for Application	Connectivity of two modules.

Testing

Sr. No	Test Case	Description	Expected Output	Result
1.	Registering a new user	Admin accepts registration details from the user	Successful registration and transition to login page	Pass
2.	Invalid Email ID	If not provided correct email-id pops up an alert	Enter valid E-mail address	Pass
3.	Successful User authentication	Needs to login with user id and password	Login successful	Pass
4.	Unsuccessful User authentication	If user login with wrong user id or password	Invalid ID or Password	Pass
5.	View criminals in public module.	On click of the icon displays all the details of the criminals entered in Police module.	On click Opens criminals database.	Pass
6.	Emergency button	user in public module invokes this goes alert to police module.	On clicking this alerts a police in police module.	Pass

7.	Search for a criminals	Criminals entered by both public and police are listed here	List of criminals are listed here	Pass
8.	Upload a criminal	A user can upload a complete data of a criminal and place of crime which can be further viewed.	On clicking this user can add criminals on entering submit button successful criminal record is added to database.	Pass
9.	View Reported crime	When user add a criminal record and those can be viewed here.	On clicking this button all the criminals are listed and can search them.	Pass

Presentation Slides:

CRIMINAL DATABASE

TEAM -17

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VIKAS KODURI -43

INTRODUCTION

Criminal database, this application is used to upload the criminal record and retrieve the data back.

This application has two modules police module and the public module.

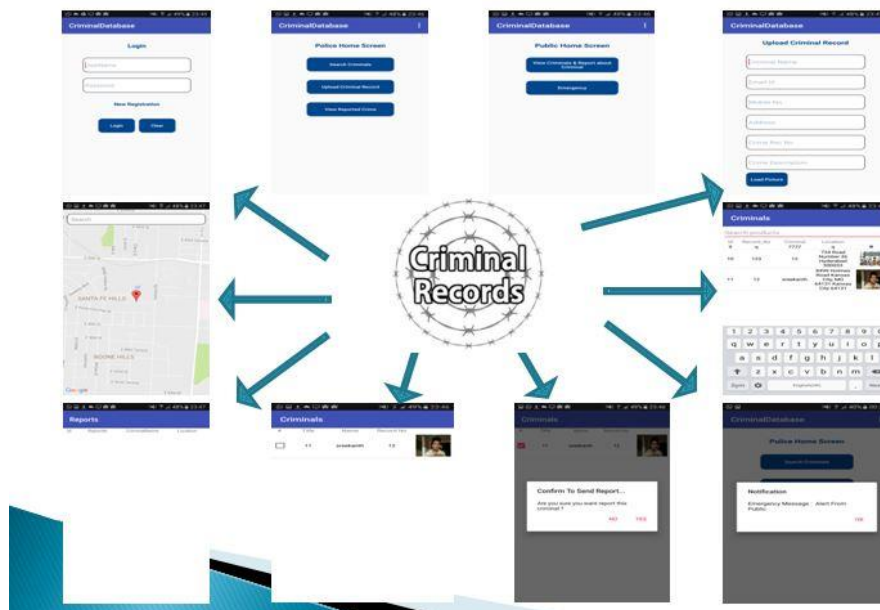
In the police module, police can upload the crime report of any criminal case.

In the public module, people can notify the police if they found any criminal in the real time and they can report to the police if they need any emergency.

TECHNOLOGIES

- ▶ ANDROID STUDIO
- ▶ JAVA
- ▶ RUBY
- ▶ JAVA SCRIPT

FEATURES OF THE APPLICATION



Links:

GITHUB LINK: <https://github.com/vikkas111/ASE-PROJECT>

YouTube Link:

<https://www.youtube.com/watch?v=0lLdzO0PVkl&feature=youtu.be>

Presentation link:

<https://drive.google.com/open?id=oB4jaAsAXJ8UncnBzWF9QWWZkULE>