A PROJECT REPORT

ON

"E-POLICE STATION"

Submitted to
UNIVERSITY OF MUMBAI

In Partial Fulfilment of the Requirement for the Award of

**BACHELOR'S DEGREE IN
COMPUTER ENGINEERING**

BY

Mulla Aanam Mushtaqahmed Jakiya	**16CO06**
Sayed Saniya Kaleem Ayesha	**16CO10**
Shaikh Nameera Yusuf Tabassum	**18DCO17**
Sayed Alamara Shakil Karimunnisa	**16DCO70**

**UNDER THE GUIDANCE OF
PROF. REHAAL QURESHI**

DEPARTMENT OF COMPUTER ENGINEERING
Anjuman-I-Islam's Kalsekar Technical Campus
SCHOOL OF ENGINEERING & TECHNOLOGY
Plot No. 2 3, Sector - 16, Near Thana Naka,
Khandagaon, New Panvel - 410206
2020-2021

AFFILIATED TO
UNIVERSITY OF MUMBAI

A PROJECT II REPORT
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CERTIFICATE

This is certify that the project entitled

"E - POLICE STATION "

submitted by

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is a record of bonafide work carried out by them, in the partial fulfilment of the requirement for the award of Degree of Bachelor of Engineering (Computer Engineering) at *Anjuman-I-Islam's Kalsekar Technical Campus, Navi Mumbai* under the University of MUMBAI. This work is done during year 2020-2021, under our guidance.

Date:25/5/2021

(Prof. Rehaal Qureshi)
Project Supervisor

(Prof. Prof. Kalpana R. Bodke)
Project Coordinator

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HOD, Computer Department

DR. ABDUL RAZAK HONNUTAGI
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Acknowledgements

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I am grateful to him/her for his timely feedback which helped me track and schedule the process effectively. His/her time, ideas and encouragement that he gave is help me to complete my project efficiently.

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Project I Approval for Bachelor of Engineering

This project entitled *Ṗroject Title¨* by *Students Name* is approved for the degree of *Bachelor of Engineering in Department of Computer Engineering.*

Examiners

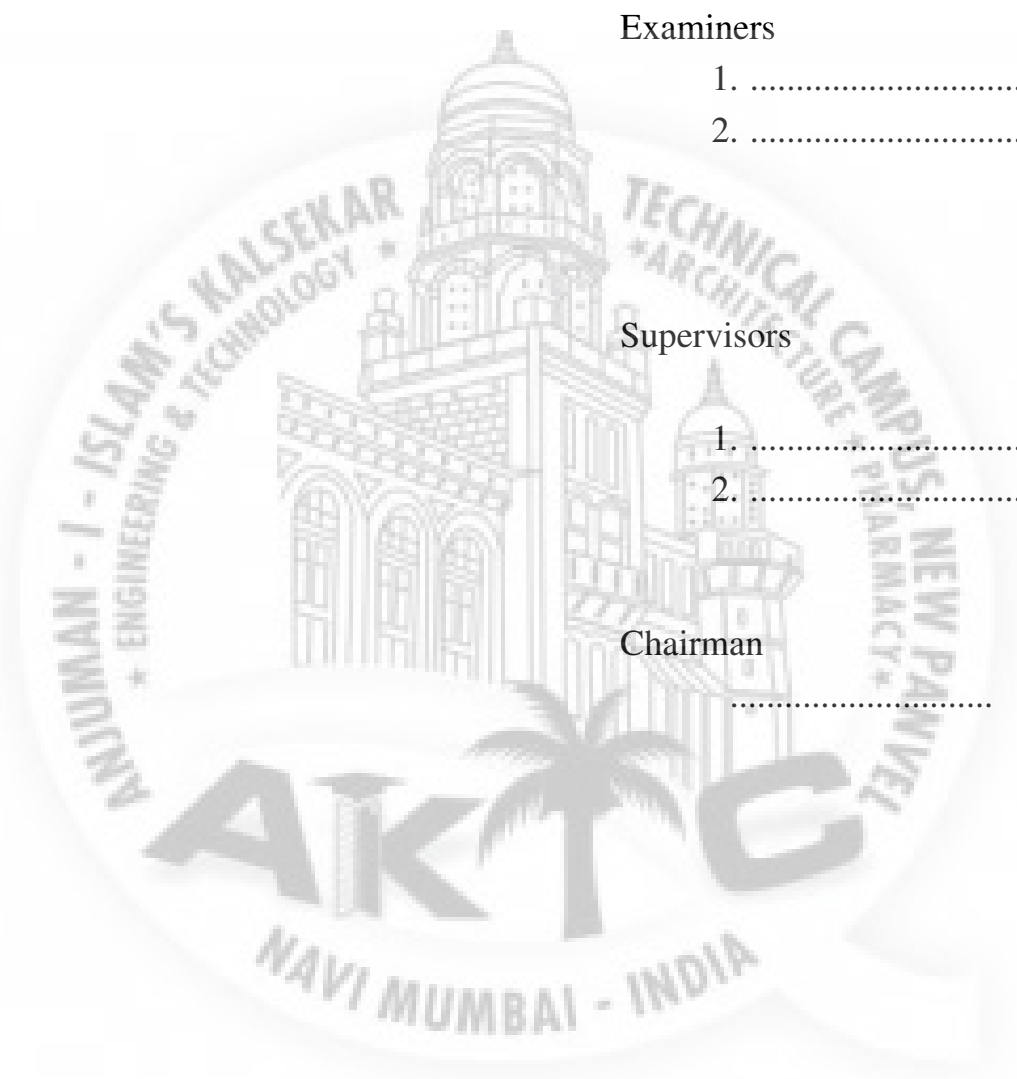1. ....
2. ....

Supervisors

1. ....
2. ....

Chairman

....

Declaration

I declare that this written submission represents my ideas in my own words and where others ideas or words have been included, I have adequately cited and referenced the original sources. 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 understand that any violation of the above will be cause for disciplinary action by the Institute and can also evoke penal action from the sources which have thus not been properly cited or from whom proper permission has not been taken when needed.

Student Name:Mulla Aanam Mushtaqahmed Jakiya
Roll Number:16CO06
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ABSTRACT

Title:E-Police Station E-government is the ICT based system of government service delivery for achieving good governance which is necessity for good and corruption free nation. E-police station is an government related service and it makes the communication process a possibility, a great success for modern era which increases the professional efficiency for the government police administration. The aim of this paper is to upgrade the country's police administration to the world standard. Several police station would be connected with the other units of the city in a fiber-optic based metropolitan area network and a database will be setup for warrant notices, examining the finger prints using the latest electronic device etc. There have to be set up an electronic database and an interactive website which will contain daily press releases, supplement, list of top terrorists and criminals, lists of people under police custody and people injured in road or other accidents etc. In this project we focus on the infrastructure of an e-police system as well as its steps, challenges of implementation and its necessity

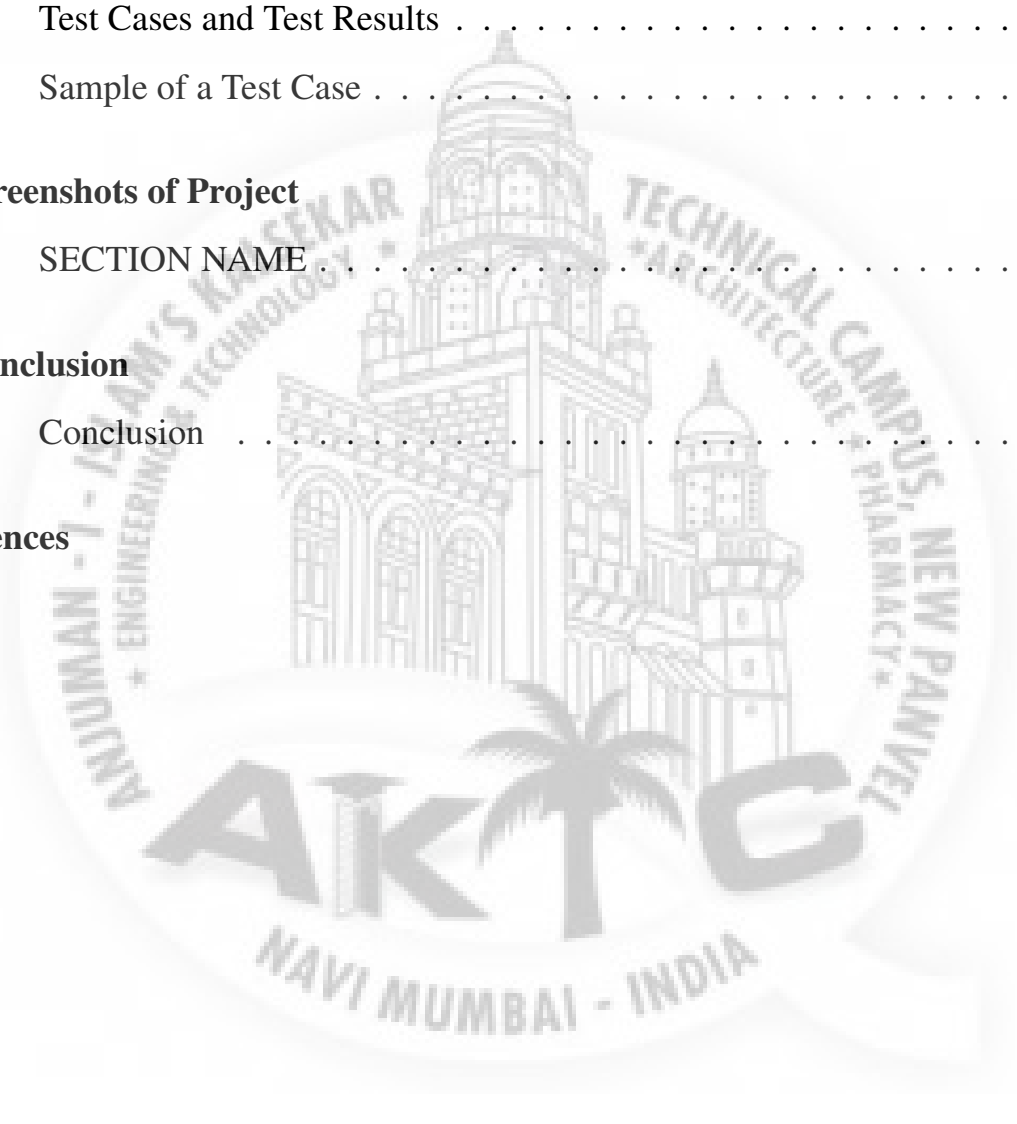**Keywords: Text Analysis, Speech-To-Text,HTML,PHP,MySQL**

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Chapter 1

Introduction

1.1 Purpose

Identify the crime rates happening in the suspected areas in order to decrease the crime rate and number of crimes happening.In order to save the time of an ordinary man so as to make him register the complaint, make the process easy and help an ordinary man to describe what the rest of this SRS contains and how it is organized Suggest a sequence for reading the document, beginning with the overview sections and proceeding through the sections that are most pertinent to each reader type.

1.2 Project Scope

Current Scope: The victim who has been suffered from any kind of crime will be able to lodge the FIR.Instead of going to police station and in person to person,FIR will be lodged online.The website application will provide all the nearby police station near the crime scene.All the details and information of a. n individual will be uploaded and verified before.Police officer will be notified immediately after the FIR is lodged and further action will be taken quickly.It will also contain Speech-to-Text recognition mode which will help the users to have efficiency in lodging the reports.

Future Scope: Lie detecting test.

1.3   Technical Details

1.3.1   HTML

HTML stands for Hyper Text Markup Language. It is used to design web pages using markup language. HTML is the combination of Hypertext and Markup language. Hyper-text defines the link between the web pages. Markup language is used to define the text document within tag which defines the structure of web pages.

1.3.2   CSS

Cascading Style Sheets, fondly referred to as CSS, is a simply designed language intendednto simplify the process of making web pages presentable. CSS allows you to apply styles to web pages. More importantly, CSS enables you to do this independent of the HTML that makes up each web page

1.3.3   XAMPP

XAMPP is an abbreviation for cross-platform, Apache, MySQL, PHP and Perl, and it allows you to build WordPress site offline, on a local web server on your computer. This simple and lightweight solution works on Windows, Linux, and Mac – hence the "cross-platform" part.

1.3.4   PHP

PHP is a server side scripting language that is embedded in HTML. It is used to manage dynamic content, databases, session tracking, even build entire e-commerce sites. It is integrated with a number of popular databases, including MySQL, PostgreSQL, Oracle, Sybase, Informix, and Microsoft SQL Server.

1.3.5   MYSQL

MySQL is a relational database management system based on SQL – Structured Query Language. The application is used for a wide range of purposes, including data warehousing, e-commerce, and logging applications. The most common use for MySQL however, is for the purpose of a web database.

1.4   Innovativeness Usefulness

1.4.1   Text Analysis

Text Analysis is about parsing texts in order to extract machine-readable facts from them. The purpose of Text Analysis is to create structured data out of free text content.
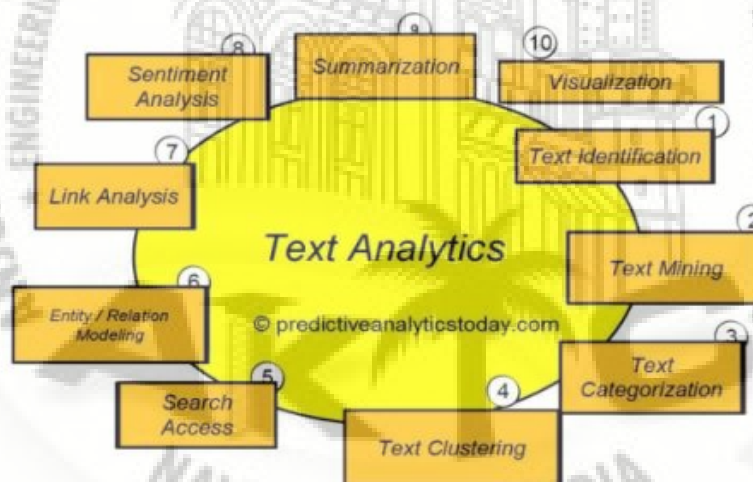
Figure 1.1: Text Analysis

1.4.2   Speech-To-Text

Speech to text (STT) software is a type of assistive technology program that converts words that are spoken aloud to electronic written text to support increased demonstration of learning and independence. SST can also be referred to as dictation or Speech Recognition Programs.

Chapter 2

Literature Survey

2.1 Crime Pattern Detection, Analysis Prediction

Crimes are a social irritation and cost our society deeply in several ways. Any research that can help in solving crimes quickly will pay for itself. About 10 of the criminals commit about 50 of the crimes. The system is trained by feeding previous years record of crimes taken from legitimate online portal of India listing various crimes such as murder, kidnapping and abduction, dacoits, robbery, burglary, rape and other such crimes. As per data of Indian statistics, which gives data of various crime of past 14 years (2001-2014) a regression model is created and the crime rate for the following years in various states can be predicted. We have used supervised,semi-supervised and unsupervised learning technique on the crime records for knowledge discovery and to help in increasing the predictive accuracy of the crime. This work will be helpful to the local police stations in crime suppression.The crime rates accelerate continuously and the crime patterns are constantly changing. As a result, the behaviors in crime pattern are difficult to explain. This paper illustrates how social development may lead to crime prevention. The aim is to provide a comprehensive review of theory and research with respect to the prevention of the crime in the society and to implement different data analysis algorithms which address the connections between crime and its pattern. The data for the project are

collected from the legitimate government sources. The data was converted to .csv format upon which preprocessing of the data was performed. Technologies used for mining various crime pattern and analysis are Weka Tool and R Tool.

2.1.1 Advantages of Paper

a. Helpful to local police stations in crime supperssion.

b. To provide review of proper theory and research.

2.1.2 Disadvantages of Paper

The biggest hurdle in the project was data acquisition and data staging also it have complexity in choosing the algorithms.

2.1.3 How to overcome the problems mentioned in Paper

To Apply perfect algorithms to reduce these hurdles. Data mining and machine learning can be best tools for crime pattern detection.

2.2 Intellectual and Enhance Digital Solution for Police-Station

Police Station is the most important unit for the citizens of the country (INDIA). Whenever a crime happens in the city a citizen first need to contact to the police station .Police stations in the city are still working manually such as filing an First Information Report (FIR) which are reported on paper due to this there are chances of miss placing those records.The Proposed online system- Intellectual and Enhance Digital Solutions (IEDS) for the Police Stations which will help the policeman and user to digitalis their work. This system will maintain the records in the database.IEDS integrate number of police stations in the city. Records like missing people, murder information, photo report, etc. helps the policeman to keep

data in their pocket and search on single touch. IEDS also contains a user part for checking the status report which is accessed more securely by One-Time-Password (OTP).This System will also help lawyer to co-ordinate with policeman and victim by getting access to the documents uploaded by police.This System will also do Analysis of Criminal Records using Apriori Algorithm. The System will reduce the load of the policeman as well as local in police station for queries like missing person, missing vehicle, status of their case etc. It will also reduce paper work which will in turn save trees.

2.2.1 Advantages of Paper

a. Helps to co-ordinate with policeman and victim.

b. Reduce the load of policeman.

2.2.2 Disadvantages of Paper

It have danger of system security which is highly risk-able and cannot be used due to its vulnerabilities.

2.2.3 How to overcome the problems mentioned in Paper

These dangers can be deduced by integrating number of modules to increase the efficiency and problem solving for the police

2.3 e-Cops : An Online Crime Reporting and Management System for Riyadh City

The huge success of internet and information technology have a remarkable effect on both public and private sectors within a country. The internet services and applications have drastically increased. That's why people find it more convenient to use

internet applications to give an online complain regarding any suspicious activity rather than visiting a police station. This method is reasonably secure since it is possible to hide the identity of the person who reported the complain about the crime. Many cases are not registered in police station since the person complained wants to hide the identity due to the possible risk or danger. It is also feared that there are many pending investigations due to lack of proper evidences from the reporting people. An online application can bridge this communication gap between police and the individuals to send reports or other required information. This paper proposes an application that can be used by the individuals in Riyadh to report and manage their complains effectively. Further the system can be used by the people to register the complaints and is helpful to the police department in identifying the criminals. The main purpose of the application is to improve the effectiveness and efficiency of interaction procedures between the police officials and common people. It would be an outstanding tool to monitor and track the criminals around the country and also have a complete online record of crime related information.

2.3.1 Advantages of Paper

a. Identifying the criminals easily.

b. Best tool to monitor and track the criminals

2.3.2 Disadvantages of Paper

This proposed system had lack of evidences during the investigation process. It also had less interaction between the police and the victims.

2.3.3 How to overcome the problems mentioned in Paper

Those mentioned above weaknesses can be retrieved by maintaining proper tracking and regularly updating the database. These can be done by properly

creating crime records and various crime related information.

2.4   Technical Review

2.4.1   Advantages of Technology

a. HTML is light weighted and fast to load.

b. CSS has the ability to re-position.

c. PHP is highly flexible whether it is during an ongoing project or after completing the project.

d. Xampp is a beginners friendly solution package for full stack web development.

2.4.2   Reasons to use this Technology

a. Using HTML, you can define headers, paragraphs, links, images, and more, so your browser knows how to structure the web page you're looking at.

b. CSS is the language for describing the presentation of Web pages, including colors, layout, and fonts. It allows one to adapt the presentation to different types of devices, such as large screens, small screens, or printers.

c. A good benefit of using PHP is that it can interact with many different database languages including MySQL. We work with MySQL this is also a free language so it makes sense to use PHP.

d. XAMPP has the ability to serve web pages on the World Wide Web. A special tool is provided to password-protect the most important parts of the package. XAMPP also provides support for creating and manipulating databases in MariaDB and SQLite among others.

Chapter 3

Project Planning

3.1 Members and Capabilities

Table 3.1: Table of Capabilities

SR. No	Name of Member	Capabilities
1	Aanam Mulla	Database
2	Nameera Shaikh	Frontend/UI Design
3	Saniya Syed	Database/Documentation
4	Alamara Karimunnisa	Documentation

3.2 Roles and Responsibilities

Table 3.2: Table of Responsibilities

SR. No	Name of Member	Role	Responsibilities
1	Aanam Mulla	Team Leader	Database
2	Nameera Shaikh	Project Manager	Frontend/UI Design
3.	Saniya Syed	Project Manager	Database/Documentation
4	Alamara Karimunnisa	Project Team Member	Documentation

3.3 Assumptions and Constraints

a. Accuracy of the project schedule dates.

b.Key project member's availability.

c.Key project member's performance.

d.Key project member's skills.

3.4   Project Management Approach

The project approach involves the selection of project management practices, means, and methods that the project management team should perform based on the specific, high-level project characteristics gathered from the project charter.

The five phases of project management include conception and initiation, planning, execution, performance/monitoring, and project close.

1. This is the start of the project, and the goal of this phase is to define the project at a broad level. This phase usually begins with a business case. This is when you will research whether the project is feasible and if it should be undertaken. If feasibility testing needs to be done, this is the stage of the project in which that will be completed.

2. This phase is key to successful project management and focuses on developing a roadmap that everyone will follow. This phase typically begins with setting goals. Two of the more popular methods for setting goals are S.M.A.R.T. and CLEAR

3. This is the phase where deliverables are developed and completed. This often feels like the meat of the project since a lot is happening during this time, like status reports and meetings, development updates, and performance reports. A "kick-off" meeting usually marks the start of the Project Execution phase where the teams involved are informed of their responsibilities.

4. This is all about measuring project progression and performance and ensuring that everything happening aligns with the project management plan. Project managers will use key performance indicators (KPIs) to determine if the project is on track

5. This phase represents the completed project. Contractors hired to work

specifically on the project are terminated at this time. Valuable team members are recognized. Some PMs even organize small work events for people who participated in the project to thank them for their efforts.

3.5   Ground Rules for the Project

Ground rules are policies and guidelines which a group establishes consciously to help individual members decide how to act. To be effective, ground rules must be clear, consistent, agreed-to, and followed. Team ground rules define a behavioral model which addresses how individuals treat each other, communicate, participate, cooperate, and support each other in joint activities.

- A team should create and adopt written ground rules in the project planning stage.

1. They should be added to and revised as and when required. Every project has a unique team and functional structure. Ground rules need to be defined considering project organization in detail. A few factors to be considered are:

2. - Team location: Location of the team is essential in defining ground rules. A combination of stationary and virtual teams would require additional ground rules.

3. - Team ethnicity: Consider the ethnicity of the team members and add few ground rules for effective team work.

4. - Project duration: Ground rules are important for any project irrespective of the length of the project. Consider the length of the project for defining urgency of implementation.

5. - Team skills and expertise: Team members should have a mix of skills and expertise in the domain to ensure the success of a project.

Project meeting

- Be on time for all team meetings.

- Team leader must create and disseminate agendas for each team meeting.

- Team leader must create and disseminate minutes after each team meeting.

- Attend full duration of all team meetings unless a case of emergency.

- Avoid informal/social talk during team meetings.

- Build in brief informal/social talk time before or after team meetings.

- Be patient with alternative viewpoints, different kinds of learners, writers, speakers.

- No responsibilities to be assigned unless the person who is being assigned the responsibility accepts it. If a person to be given a responsibility is not at the meeting, the team leader must review that assignment or action item with the person before the responsibility is designated.

- Set aside a regular weekly meeting time that's kept open by all members from week to week.

- Keep the meeting schedule flexible, arranging meetings as needed and based on availability.

Project decisions

- Require consensus on all major team decisions.

- Avoid apathetic/passive decision making (e.g., "whatever you all think is right").

Project delivery

- Inform team leader if unable to complete work on time.

- Seek reader/listener feedback before handing in all deliverables.

- Set deadlines for each deliverable in advance of due date to allow for collaborative revisions.

- Team attitude and culture

- Rotate responsibilities so each person gets experience with several aspects regardless of quality or qualifications.

- Make criticisms constructive with suggestions for improvement and non-judgmental language.

- Confront issues directly and promptly.

- Promptly relay all interpersonal concerns/conflicts to team leaders.

- Keep a positive attitude toward the team, individual members, projects and course.

- Take initiative by offering ideas and volunteering for tasks.

- Play an equal role in the team by contributing equally to every task.

- Be honest with any team member who is not pulling her/his weight.

- Help one another with difficult or time consuming deliverables.

- Ask for help from the team or other resources if "stuck" or falling behind.

- Treat each other with respect.

- Accept responsibility and accountability along with the authority given.

3.6   Project Budget

The Project Budget   is a tool used by project managers to estimate the total cost of a project. A project budget template includes a detailed estimate of all costs that are likely to be incurred before the project is completed.

The Importance of a Project Budget Initially, the project budget allows the project manager to determine how much the project is likely to cost. Throughout the course of the project, it lets the project manager check whether or not the project is sticking to its budget.

1 – **GIVING YOUR WEBSITE A NAME: DOMAIN NAME REGISTRATION**

- Registering your domain name is required to successfully displaying a website on the internet. To register your business, you will need to purchase a name from a recognized domain registrar. Domain registrars are certified businesses that sell domain names like GoDaddy.com, Register.com, Network Solutions.com, or Hover.com.

- Coming up with a great, memorable domain name is not as easy as it once was. From limited availability of the .com and .net name to the expanding world of Generic Top Level Domains (GTLD s) such as .mobi or .us, the right domain name is crucial. Don't be afraid to venture away from your business name to a phrase or tagline. For example, we helped an HR consulting service come up with the tagline and domain name: Plan Prevent Protect.com.

- Purchasing a domain name is done on an annual basis. Purchasing one year at a time — anywhere from 15-14dollar per year — can be a little costly, so don't be afraid to purchase the domain name for several years at a time to save

some money. If your domain name is taken, but not currently in use, it might be possible to purchase the domain name from another individual or business.

- CRITICAL: When you're setting up your domain name:

- Use your business or organization name (not your personal name)

- Purchase several years at a time and use "auto-renew" features

- Keep a printed copy of your user name and password in a secure location for reference later or in succession situations

2 – GIVING YOUR WEBSITE A HOME: WEBSITE HOSTING

- If a domain is the name of your website, then website hosting is where your website is located. Hosting your website is similar to renting office space on the web; a physical location where your website files are stored and where site visitors arrive to view your website. Hosting is typically provided by a separate business or can be resold as a service through a website developer/agency.

- Hosting your website in the right environment and on the right server is the difference between long term success and pending disaster. Choosing the right host can produce faster page load speeds, improved search engine performance, and even support in critical situations. In most situations, a hosting provider should be selected based on the referral or suggestion of your chosen website developer.

- Update: Many hosting providers have begun specializing in specific platforms such as "Managed WordPress Hosting." These platform-specific hosts provide valuable services beyond basic hosting. Features like daily backups, software updates, and enhanced security are worth the added monthly costs.

- Hosting of the website files with access via FTP, sFTP, or some other file manager portal

- Storage of website files up to approximately 20 GB

- Database or application compatibility/function

- Basic backup and restoration

- Access to limited technical support

- CRITICAL: Website hosting may or may not offer email services. If you require email accounts with your domain name, be sure to mention it prior to the development process.

What Are Some Other Website Hosting Costs?

- SSL or Security Certificate

- If your website utilizes online donations, e-commerce, or any sensitive data a security component called an SSL (Secure Sockets Layer) is required. The SSL demonstrates to the site user that the website creates an encrypted connection between your web server and your visitors' web browser allowing for private information to be transmitted without the problems of eavesdropping, data tampering, or message forgery.

- SSLs range in cost depending on the level of needed security. Most common SSLs cost about 50-70dollar per year.

- Update: Since Google made an SSL certificate nearly mandatory for your website in 2018, most website hosting providers include a basic level SSL. This is an excellent low or no cost solution for an SSL. However, if your website is e-commerce or PCI involved website, you may need to invest in a more secure SSL.

- Automated Backup and Restoration Services

- Paying to store your website in a set location doesn't guarantee that disasters will never occur. Server room fires, natural disasters, and cyber security threats can (and do) happen. It is up to you as the website owner to see that precautions are taken to "keep a copy" of your data safe.

- Most web hosting providers will offer an automated backup solution and restoration process as a form of disaster protection. Even if your hosting provider does not offer these services, there are many backup programs or plugins that can be installed to ensure the security and preservation of your data.

- Costs for an automated backup can significantly vary. Some providers have per GB backup and storage fees while others have tiered fees. Depending on the size and the complexity of your website costs begin as little per month for 25GB or less

.

3 – BUILDING YOUR WEBSITE: THE ACTUAL WEBSITE DEVELOPMENT

- "How much does it cost to build a website?" is the most common question asked. The short answer: "it depends," often leads to a rather in depth discussion. The two key factors that drive the budget discussion are time and function.

- How can you reduce the website development time?

- Prepare your brand. Make sure you have your business or organization logo as a vector file (EPS, Illustrator AI) or a transparent, high resolution PNG. Make sure your brand colors are documented (PMS , CMYK, RGB, Hex, etc.). Gather sales literature or other materials that can be useful for defining you brand's visual style.

- Images are crucial to your website. If you haven't taken photos or connected with a professional photographer, we can make recommendations. If you have, putting the images on a USB flash drive or sharing them through DropBox or similar platform is a big help.

- Writing fuels your website. From the company history to team member bios, content on the website can turn a four week development into a four month struggle. If you don't have a writer in the office, let us know. Signalfire can write the web content for you more affordably than you think.

- Time. How long it takes to develop a website varies depending on the size of the website, the functionality, and the availability of content and images. If a business or organization comes with all the text, a bounty of images, and a good idea of their desired functionality, a website could be launched in a month or less. If your business or organization has an e-commerce or donation system, a need for a secure login section, or other more complex functionality needs, the development time could easily extend out to six months. Time will impact cost. The less time you have available means the development cost will increase. Plan on a small website development with less than 30 pages and basic functionality taking approximately six weeks.

- CRITICAL: If you have a fixed timeline or a specific date when the website must be live (e.g. trade show, product launch, etc.), you should communicate that immediately to your developer.

Chapter 4

Software Requirements Specification

4.1   Overall Description

4.1.1   Product Perspective

- A distributed E-police Station database system stores the following information.

Admin details:

- It includes the login pagel and , along with the stops in between, the number of seats booked/available seats between two destinations etc.

- description:

- Design a Virtual Police Station environment in which police officer would be able to interact with victim. It will help to capture all the details with respect to identity of complaints and criminals. This will help the user to lodge the FIR.

- The Objective of this project is to demystify the police. It will also help to avoid consuming the time. It will help to keep an eye over the area of most crime scenes.It will also help to reduce the crime rates.

Victim description:

It includes victim details, Victim ID, Registration number, date of missing or other activities, date of travel..

4.1.2   Product Features

A product requirements specification establishes a bridge between product management and development. It defines a product in terms of stakeholder requirements, containing all those requirements that sensibly should be described explicitly and be available permanently.
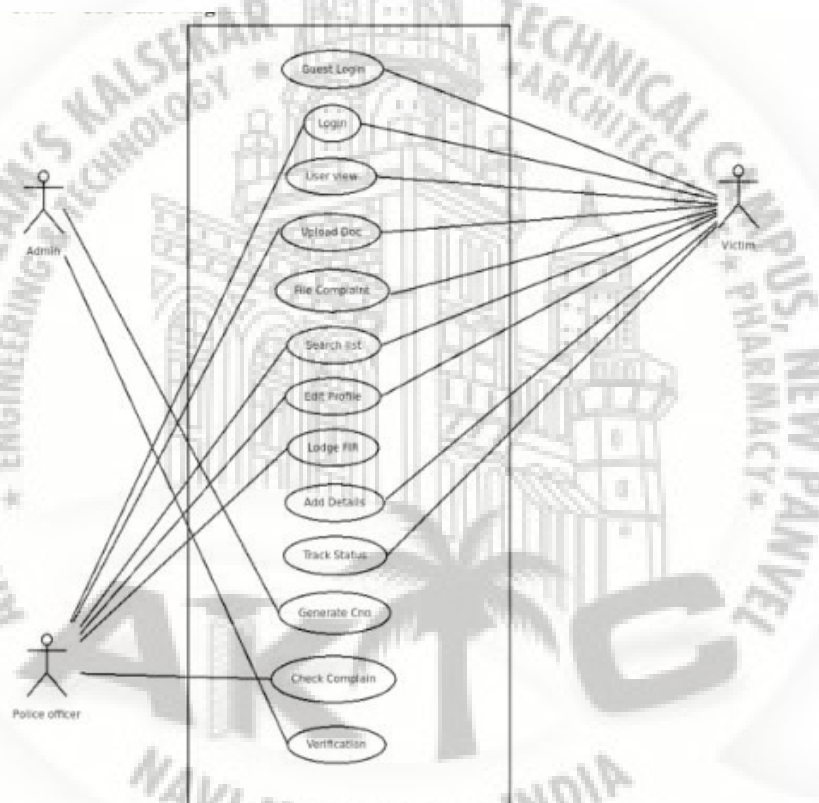

Figure 4.1: Use Case Diagram

4.1.3   User Classes and Characteristics

Users of the system should be able to retrieve the information between the victims with the given date/time of any acitivity like missing, harrassment and FIR from the database. A FIR from one victim to the police officer is a sequence of collecting

FIR and interaction between both of them The system will support two types of user privileges, User, and Police. User will have access to police functions, and the police will have access to both management functions. :

4.1.4 Operating Environment

Operating environment for the airline management system is as listed below.

- distributed database

- client/server system

- Operating system: Windows.

- database: sql+ database/Xampp

- platform: HTML/CSS/PHP

4.1.5 Design and Implementation Constraints

- The global schema, distributed schema, and allocation schema.

- SQL commands for above queries and applications

- How the response for application 1 and 2 will be generated. Assuming these are global queries.

- Explain how various pages will be combined to do so.

- Implement the database at least using a centralized database management system.

4.2 System Features

This template illustrates organizing the functional requirements for the product by system features, the major services provided by the product. You may prefer

to organize this section by use case, mode of operation, user class, object class, functional hierarchy, or combinations of these, whatever makes the most logical sense for your product.

4.2.1   System Feature

.

Description and Priority

The E-police station maintains information on registration of victims, classes of FIR, personal preferences, login ID, and missing, stolen activities. Of course, this project has a high priority because it is very difficult to manage the overall data of each and every indiviual.

Stimulus/Response Sequences

Search for activity to complaint for:

- Displays a detailed list of available activities and fill the "form" or Register on a particular complaint.

- Cancel an existing a Registration.

Functional Requirements

DISTRIBUTED DATABASE:

- Distributed database implies that a single application should be able to operate transparently on data that is spread across a variety of different databases and connected by a communication network as shown in below figure.

- Distributed database located in different cities.

- Distributed database in different webiste pages.

CLIENT/SERVER SYSTEM

The term client/server refers primarily to an architecture or logical division of responsibilities, the client is the application (also known as the front-end), and the server is the DBMS (also known as the back-end). A client/server system is a distributed system in which,

1. Some sites are client sites and others are server sites.

2. All the data resides at the server sites.

3. All applications execute at the client site

4.3   External Interface Requirements

4.3.1   User Interfaces

A user interface specification (UI specification) is a document that captures the details of the software user interface into a written document. The specification covers all possible actions that an end user may perform and all visual, auditory and other interaction elements.

Real-time dashboard Call Operators and Dispatch Officers get a complete overview of what's happening at any given time. They can make informed decisions based on call volumes, availability and the severity of active jobs. From these insights, they can produce reports for forecasting, budgeting and monitor trends.

Maps and logistics There's a map where you can get a better view of where jobs and resources are based on a location. The rings around an address help to indicate the distance a person is to their destination

Taking calls and making notes The process of taking calls can be very stressful. Trying to find the information you need to capture all the relevant aspects of each call to ensure nothing is missed. Well crafted forms (with hint-text) helps ensures this process goes as smoothly as possible.

Information architecture wireframes A spreadsheet was created to map out the dashboard's information architecture and business requirements. It was a great way to ensure everything had been captured or to identify any gaps that need to be addressed.

Front-end software: HTML ,CSS, JAVASCRIPT

Back-end software: SQL+,PHP

4.3.2   Hardware Interfaces

An architecture used to interconnect two devices together. It includes the design of the plug and socket, the type, number and purpose of the wires and the electrical signals that are passed across them.

- Command Line Interface.

- Menu-driven Interface.

- Graphical User Interface.

- Touchscreen Graphical User Interface.

WINDOWS Hardware Interfaces Linking hardware to software has always been one of the biggest challenges facing those charged with designing computer systems—not just individual computers but whole families of computers, those able to run the same programs. The solution has almost invariably been to wed the two together by layering on software, so much so that the fastest processors struggle when confronted by relatively simple tasks. An almost unbelievable amount of computer power gets devoted to moving bytes from software to hardware through a maze of program code, all in the name of making the widest variety of hardware imaginable work with a universal (at least if Microsoft has its way) operating system. Windows itself does not draw the box. Rather it acts as a translator, converting the box request into a series of commands to draw it. It then sends these commands to its graphics

driver. The driver determines what commands to use so that the video board will understand what to do. The driver then passes those commands to another driver, the one associated with the video board.

4.3.3 Software Interfaces

Software used Operating system **Description**

- We have chosen Windows operating system for its best support and user-friendliness.

- Lighter and faster operating system.

- Possible privacy problems.

- System updates for a longer period.

- Excellent virus protection.

- Addition of Direct X 12.

- Touch screen for hybrid devices.

    Database To save the records, victims records we have chosen SQL+ database.

- MySQL, the most popular Open Source SQL database management system, is developed, distributed, and supported by Oracle Corporation. The MySQL website (http://www.mysql.com/) provides the latest information about MySQL software. MySQL is a database management system. A database is a structured collection of data.

- Structured Query Language has specific standards. MySQL doesn't completely follow them, i.e. MySQL provides no support for some standard SQL features. On the other hand, MySQL has some extensions and distinct features that don't match the Structured Query Language standards.

- MySQL is a relational database management system based on SQL – Structured Query Language. The application is used for a wide range of purposes, including data warehousing, e-commerce, and logging applications. The most common use for mySQL however, is for the purpose of a web database.

- The MySQL development process focuses on offering a very efficient implementation of the features most people need. This means that MySQL still has fewer features than its chief open source competitor, PostgreSQL, or the commercial database engines.

4.3.4 Communications Interfaces

This project supports all types of web browsers. We are using simple forms for the collection of the records and the collection of the data entered by the user.

- Google Chrome is a cross-platform web browser developed by Google. It was first released in 2008 for Microsoft Windows built with free software components from Apple WebKit and Mozilla Firefox. It was later ported to Linux, macOS, iOS, and Android where it is the default browser built into the OS.

- Google Chrome is a free web browser developed by Google, used for accessing web pages on the internet. As of May 2020, it is the most popular web browser of choice worldwide, with more than 60 percent use it.

- Google Chrome is a web browser. You need a web browser to open websites, but it doesn't have to be Chrome. Chrome just happens to be the stock browser for Android devices. In short, just leave things as they are, unless you like to experiment and are prepared for things to go wrong!

- Microsoft Edge comes a close second. It supports all the same browser extensions as Google Chrome, due to it being based on the same Chromium engine.

However, it's noticeably less demanding on RAM, allowing for faster performance - plus it now comes with an in-built password manager

- The Edge browser in Windows 10 is a new sandboxed app, so it's much better for banking than Internet Explorer. Otherwise, Chrome is the most secure alternative, because it runs in Google's own strong sandbox. Some security companies also provide add-ons, such as Kaspersky Safe Money and Bitdefender Safepay.

The forms includes: The way to fill out the Police application form online:

- To get started on the form, use the Fill Sign Online button or tick the preview image of the document.

- The advanced tools of the editor will direct you through the editable PDF template.

- Enter your official identification and contact details.

- Use a check mark to point the choice wherever expected.

- Double check all the fillable fields to ensure full accuracy.

- Make use of the Sign Tool to create and add your electronic signature to sign-Now the Police clearance certificate application form.

- Press Done after you finish the form.

- Now you may print, download, or share the form.

- Follow the Support section or get in touch with our Support crew in case you've got any questions.

4.4 Nonfunctional Requirements

4.4.1 Performance Requirements

a) NORMALIZATION:

- The basic objective of normalization is to reduce redundancy which means that information is to be stored only once. Storing information several times leads to wastage of storage space and increase in the total size of the data stored.

- If a database is not properly designed it can give rise to modification anomalies. Modification anomalies arise when data is added to, changed or deleted from a database table.

- Similarly, in traditional databases as well as improperly designed relational databases, data redundancy can be a problem. These can be eliminated by normalizing a database

- Normalization is the process of breaking down a table into smaller tables. So that each table deals with a single theme.

- There are three different kinds of modifications of anomalies and formulated the first, second and third normal forms (3NF) is considered sufficient for most practical purposes.

- It should be considered only after a thorough analysis and complete understanding of its implications.

  b) E-R DIAGRAM

- The E-R Diagram constitutes a technique for representing the logical structure of a database in a pictorial manner. This analysis is then used to organize data as a relation, normalizing relation and finally obtaining a relation database.

- ENTITIES: Which specify distinct real-world items in an application.

- PROPERTIES/ATTRIBUTES: Which specify properties of an entity and relationships.

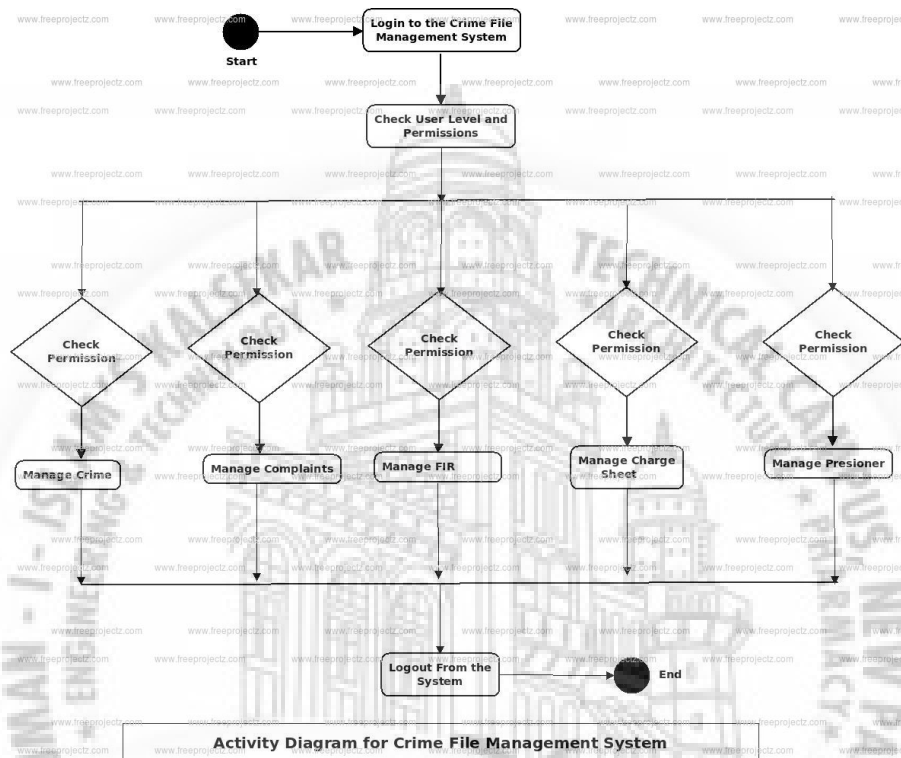- RELATIONSHIPS: Which connect entities and represent meaningful dependencies between them.

Figure 4.2: **ER DIAGRAM**

4.4.2 Safety Requirements

If there is extensive damage to a wide portion of the database due to catastrophic failure, such as a disk crash, the recovery method restores a past copy of the database that was backed up to archival storage (typically tape) and reconstructs a more current state by reapplying or redoing the operations of committed transactions from the backed up log, up to the time of failure.

Patrol assigned areas to maintain public safety.

- Enforce laws and regulations.

- Control traffic during emergencies, road work, etc.

- Investigate crimes and accidents.

- Perform first aid.

- Educate the public on crime prevention and safety

4.4.3 Security Requirements

Security police protect their agency's facilities, properties, personnel, users, visitors and operations from harm and may enforce certain laws and administrative regulations. Most security police have at least some arrest authority.

The main purpose of law enforcement officers is to enforce laws. Security officers are in charge of responding to and enforcing policies on any assigned property. Security patrol services in Atlanta can detain any individuals that are suspected of committing a crime on an assigned private property.

Police information and communication technology (ICT) systems have ... while fulfilling the high security requirements of police forces. ... agents are continuously monitored by a specialized department of auditors.

Chapter 5

System Design

5.1   System Requirements Definition

Security systems need database storage just like many other applications. However, the special requirements of the security market mean that vendors must choose their database partner carefully.

SOFTWARE QUALITY ATTRIBUTES

- AVAILABILITY: The flight should be available on the specified date and specified time as many customers are doing advance reservations.

- CORRECTNESS: The flight should reach start from correct start terminal and should reach the correct destination.

- MAINTAINABILITY: The administrators and flight in chargers should maintain correct schedules of flights.

- USABILITY: The flight schedules should satisfy a maximum number of customers needs.
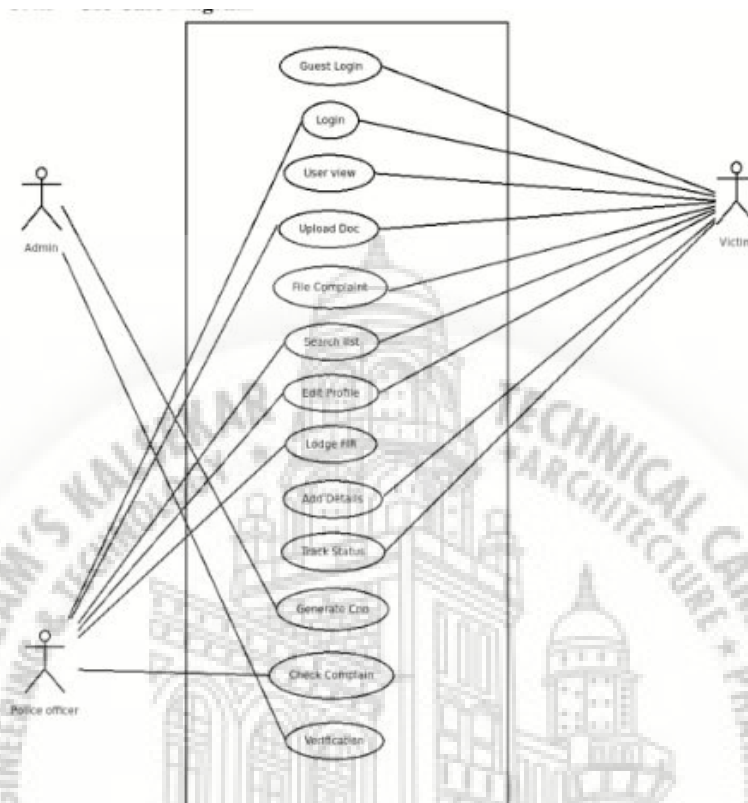
5.1.1 Functional requirements

Use-case Diagram

Figure 3.9: Use Case Diagram

Figure 5.1: USE CASE DIAGRAM

Data-flow Diagram

- Data Flow Diagram (DFD) is a graphical representation of data flow in any system.

- It is capable of illustrating incoming data flow, outgoing data flow and store data. Data flow diagram describes anything about how data flows through the system. There is a major difference between data flow diagram and flowchart.

- DFD Level 0 depicting main outcome of the system, Police Officer will Check the FIR , add the victim will track his FIR and give Feedback.

- DFD Level 1 for E-Police Station showing their main process flow in the system via registration details being stored into Database.

Figure 5.2: Data Flow Diagram

5.1.2 System requirements (non-functional requirements)

These are non-functional system properties such as availability, performance and safety etc. They define functions of a system, services and operational constraints in detail.

5.2 System Architecture Design

- The very first step the user will been doing is to login in to the page which will include the guest login and the registration portal as the website requires user identification and authentication, performed by entering a username and password combination.

- Login will provide access to an entire site or part of a website.

- The process will provide 2 option Fir by typing manually or Fir by speech to text as few people who don't know how yo type of how to operate mobiles will be easily able to use this feature that us speech to text which will be made by using machine learning algorithms and NLP and different api's.

- After the login process the website will take the user to the next page that is report for page which will be enlisting the following that is FIR lodging,accident,missing complaint and many more.the user will choose any of the according to their requirements.

- This is how the fir request will be sent to the police officer the list if the complain and many more the police officer will then further investigate and the database will be stored and this is how the crime records will be maintained in the database
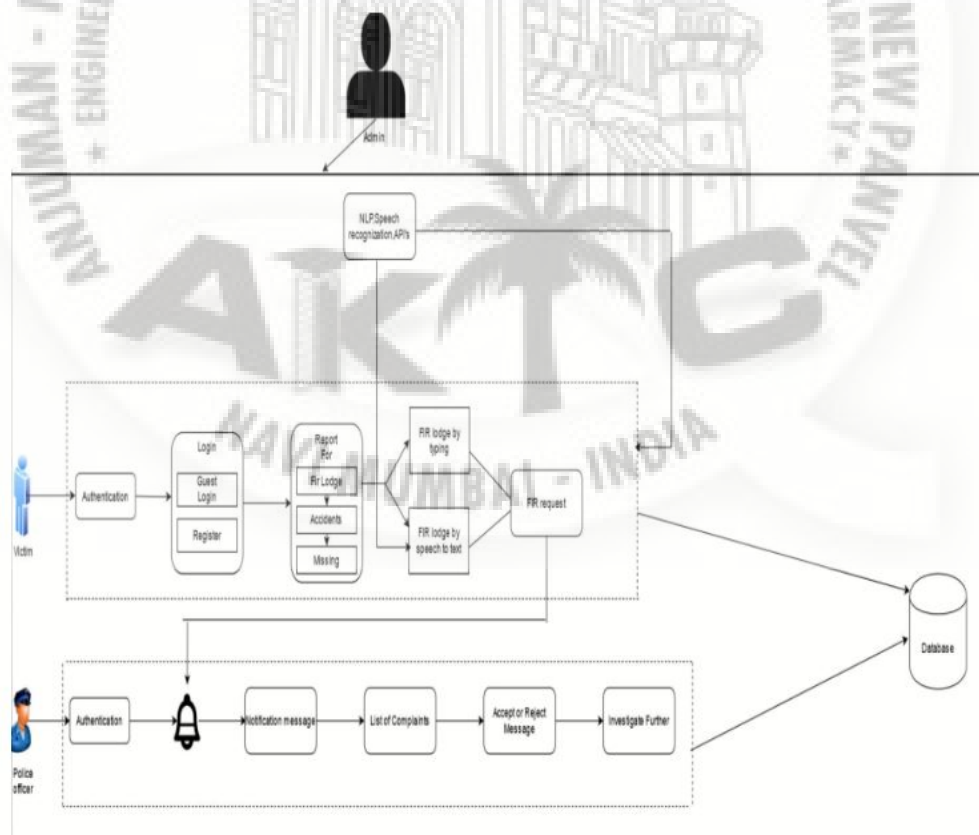

Figure 5.3: System Architecture

5.3   Sub-system Development

There are total 4 modules

- User

- Incharge

- Admin

- Police
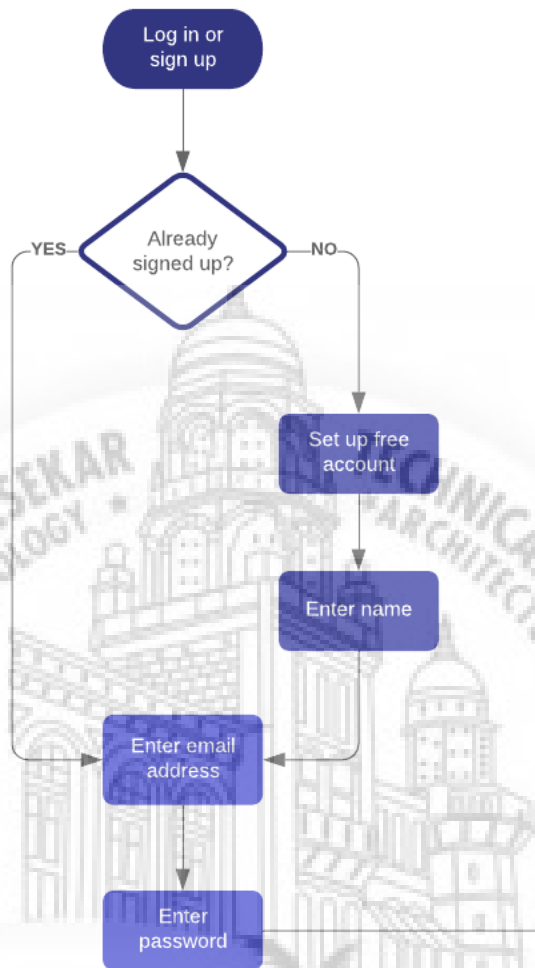
5.3.1   Module 1 - User

Figure 5.4: User Flow Diagram

Module 1 Flow Diagram or Modular Diagram
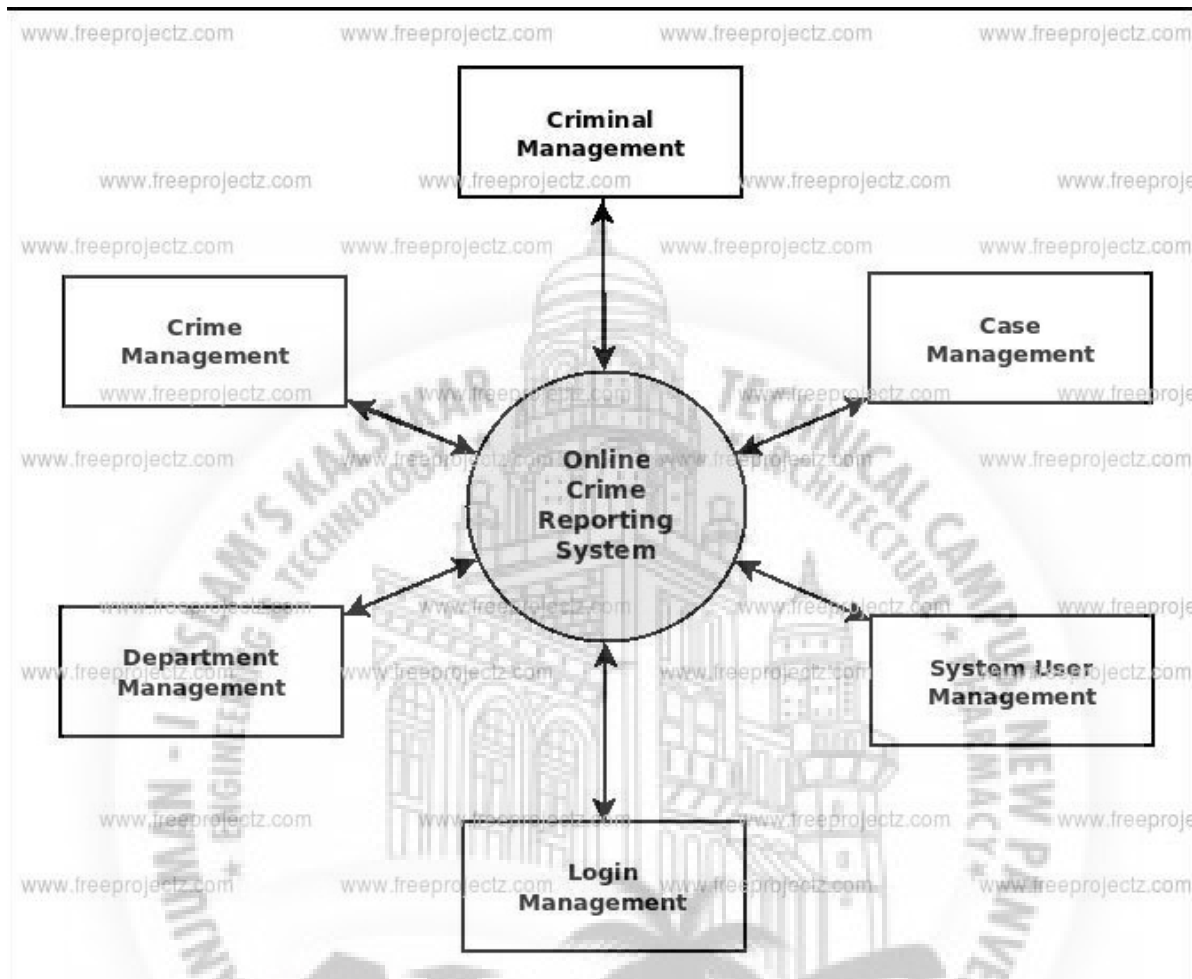
5.3.2   Module 2 - Police

Figure 5.5: System Architecture

Module 2 Flow Diagram or Modular Diagram
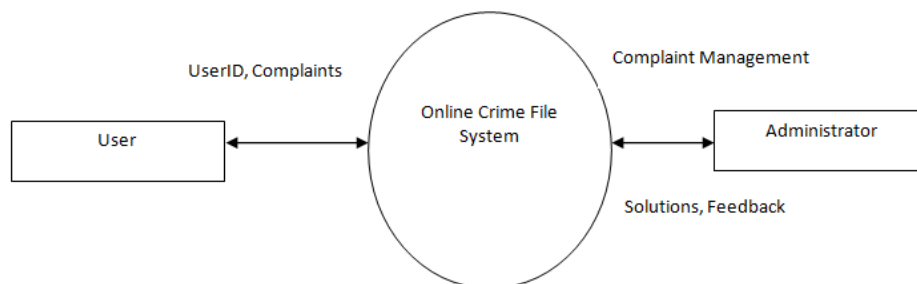
5.3.3   Module 3 - Admin

Figure 5.6: Admin Work Flow Diagram

Module 3 Flow Diagram or Modular Diagram

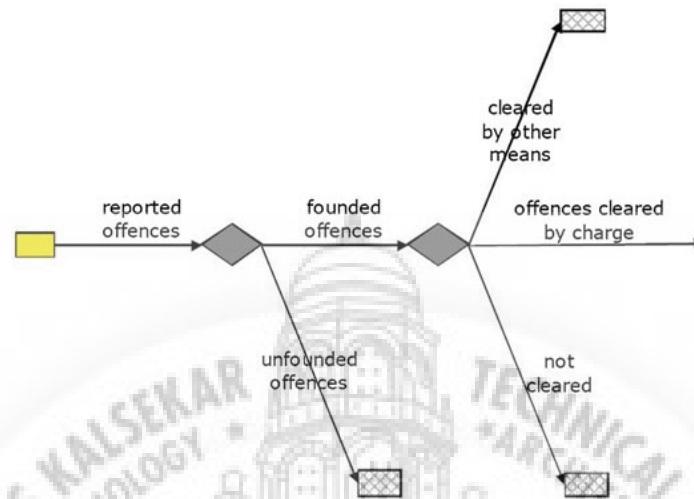## 5.3.4   Module 4 Incharge

Figure 5.7: Incharge Work Flow Diagram
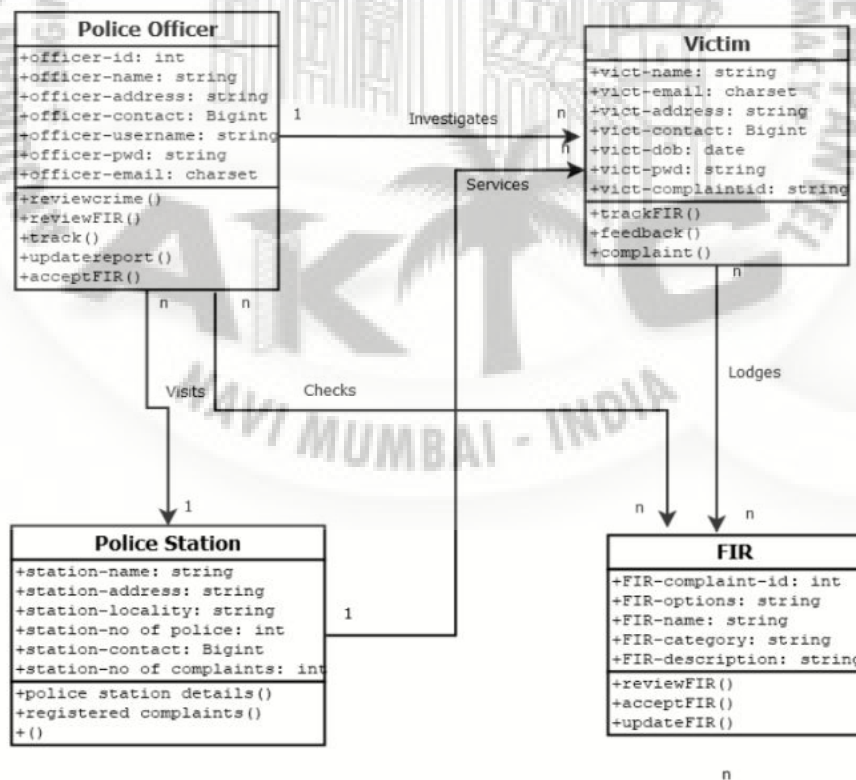
5.3.5   Class Diagram

Figure 5.8: Class Diagram

5.3.6 Sequence Diagram

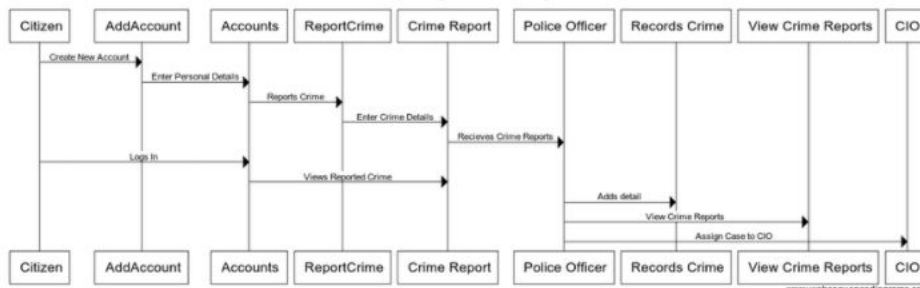**Figure 5.9: Sequence Diagram**

Chapter 6

Implementation

6.1 Registration

Figure 6.1: Registraton

```
1   <!DOCTYPE html>
2 <html>
3 <?php
4 if(isset($_POST['s'])){
5     $con=mysqli_connect('localhost','root','','crime_portal');
6     if(!$con)
7     {
```

```php
8        die('could not connect: '.mysqli_error());
9      }
10     if($_SERVER["REQUEST_METHOD"]=="POST"){
11         $u_name=$_POST['name'];
12         $u_id=$_POST['email'];
13         $u_pass=$_POST['password'];
14         $u_addr=$_POST['adress'];
15         $a_no=$_POST['aadhar_number'];
16         $gen=$_POST['gender'];
17         $mob=$_POST['mobile_number'];
18       // $password=md5($u_pass);
19       $reg="insert into user values('$u_name','$u_id','$u_pass','$u_addr','
              $a_no','$gen','$mob')";
20       // mysqli_select_db("crime_portal");
21        $res=mysqli_query($con,$reg);
22        if(!$res)
23        {
24        $message1 = "User Already Exist";
25        echo "<script type='text/javascript'>alert('$message1');</script>";
26     }
27          else
28     {
29        $message = "User Registered Successfully";
30        echo "<script type='text/javascript'>alert('$message');</script>";
31     header("location:userlogin.php");
32     }
33     }
34 }
35 ?>
36
37 <script>
38      function f1()
39        {
40             var sta=document.getElementById("name1").value;
41             var sta1=document.getElementById("email1").value;
42             var sta2=document.getElementById("pass").value;
43             var sta3=document.getElementById("addr").value;
44             var sta4=document.getElementById("aadh").value;
45             var sta5=document.getElementById("mobno").value;
46
47   var x=sta.trim();
```

```
48    var x1=sta1.indexOf(' ');
49    var x2=sta2.indexOf(' ');
50    var x3=sta3.trim();
51    var x4=sta4.indexOf(' ');
52    var x5=sta5.indexOf(' ');
53    if(sta!="" && x==""){
54      document.getElementById("name1").value="";
55      document.getElementById("name1").focus();
56        alert("Space Not Allowed");
57          }
58
59          else if(sta1!="" && x1>=0){
60      document.getElementById("email1").value="";
61      document.getElementById("email1").focus();
62        alert("Space Not Allowed");
63          }
64          else if(sta2!="" && x2>=0){
65      document.getElementById("pass").value="";
66      document.getElementById("pass").focus();
67        alert("Space Not Allowed");
68          }
69          else if(sta3!="" && x3==""){
70      document.getElementById("addr").value="";
71      document.getElementById("addr").focus();
72        alert("Space Not Allowed");
73          }
74          else if(sta4!="" && x4>=0){
75      document.getElementById("aadh").value="";
76      document.getElementById("aadh").focus();
77        alert("Space Not Allowed");
78          }
79          else if(sta5!="" && x5>=0){
80      document.getElementById("mobno").value="";
81      document.getElementById("mobno").focus();
82        alert("Space Not Allowed");
83          }
84 }
85 </script>
86
87 <head>
88 <title>User Registration</title>
```

```
89
90  <link rel="stylesheet" type="text/css" href="https://maxcdn.bootstrapcdn.com/
        bootstrap/3.3.5/css/bootstrap.min.css">
91  <link href="http://fonts.googleapis.com/css?family=Lato:300,400,700,300italic
        ,400italic,700italic" rel="stylesheet" type="text/css">
92  <link href="complainer_page.css" rel="stylesheet" type="text/css" media="all" />
93
94  </head>
95  <body>
96
97  <nav class="navbar navbar-default navbar-fixed-top">
98    <div class="container">
99      <div class="navbar-header">
100       <button type="button" class="navbar-toggle collapsed" data-toggle="
            collapse" data-target="#navbar" aria-expanded="false" aria-controls="
            navbar">
101       <span class="sr-only">Toggle navigation</span>
102       <span class="icon-bar"></span>
103       <span class="icon-bar"></span>
104       <span class="icon-bar"></span>
105       </button>
106       <a class="navbar-brand" href="home.php"><b>E - POLICE</b></a>
107     </div>
108     <div id="navbar" class="collapse navbar-collapse">
109       <ul class="nav navbar-nav">
110         <li class="active"><a href="registration.php">Registration </a></li>
111       </ul>
112     </div>
113   </div>
114  </nav>
115
116  <div class="video" style="margin-top: 5%">
117    <div class="center-container">
118      <div class="bg-agile">
119      <br><br>
120      <div class="login-form">
121        <form action="#" method="post">
122          <p style="color:#dfdfdf">Full Name</p><input type="text" name="name"
                required="" id="name1" onfocusout="f1()" />
123          <p style="color:#dfdfdf">Email-Id</p><input type="email" name="email"
                required="" id="email1" onfocusout="f1()"/>
```

```
124         <p style="color:#dfdfdf">Password</p><input type="text"
                 name="password" placeholder="6 Character minimum"
                 pattern=".{6,}" id="pass" onfocusout="f1()"/>
125     <p style="color:#dfdfdf">Home Adress</p><input type="text" name="
            adress" required="" id="addr" onfocusout="f1()"/>
126     <p style="color:#dfdfdf">Aadhar Number</p><input type="text" name="
            aadhar_number" minlength="12" maxlength="12" required pattern="
            [123456789][0-9]{11}" id="aadh" onfocusout="f1()"/>
127     <div class="left-w3-agile">
128       <p style="color:#dfdfdf">Gender</p><select class="form-control" name
              ="gender">
129       <option>Male</option>
130       <option>Female</option>
131       <option>Others</option>
132       </select>
133     </div>
134     <div class="right-agileits">
135       <p style="color:#dfdfdf">Mobile</p><input type="text" name="
              mobile_number" required pattern="[6789][0-9]{9}" minlength="10"
              maxlength="10" id="mobno" onfocusout="f1()"/>
136     </div>
137     <input type="submit" value="Submit" name="s">
138     </form>
139   </div>
140   </div>
141  </div>
142 </div>
143 <script type="text/javascript" src="https://code.jquery.com/jquery-2.1.4.js"></
        script>
144 <script type="text/javascript" src="https://maxcdn.bootstrapcdn.com/bootstrap
        /3.3.5/js/bootstrap.min.js"></script>
145 </body>
146 </html>
```

6.2   User Login

Figure 6.2: User Login

6.3   Police Login
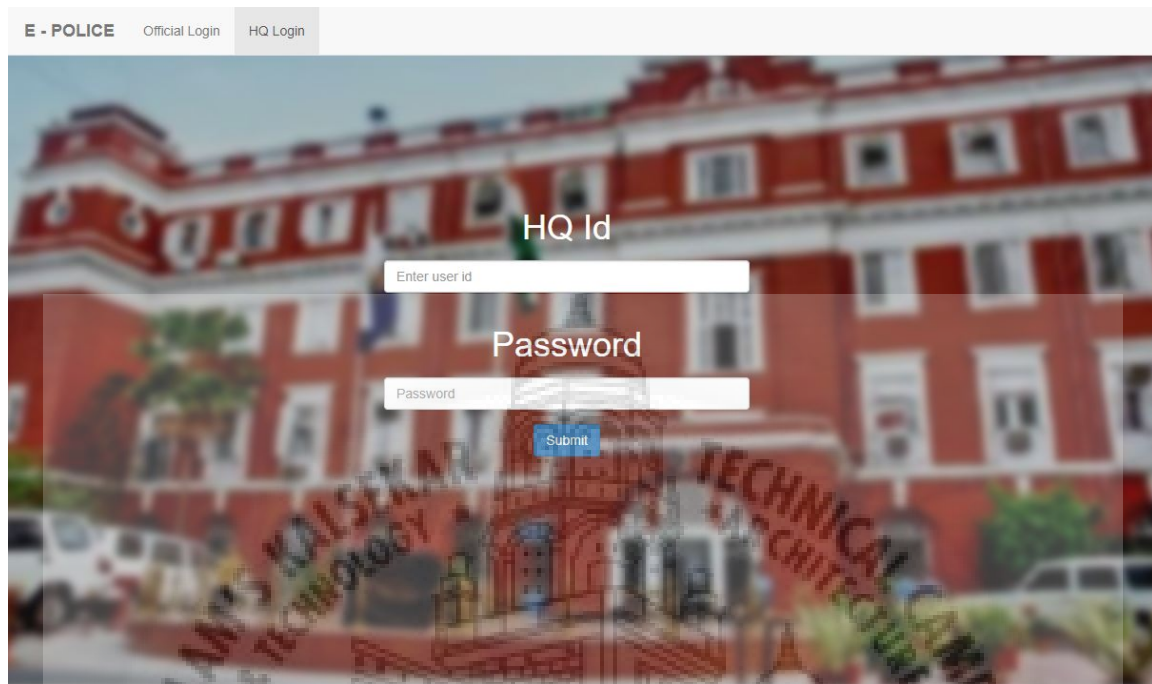
Figure 6.3: Police Login

6.4   Admin Login

Figure 6.4: Admin Login

6.5 Incharge Login

Figure 6.5: Incharge Login
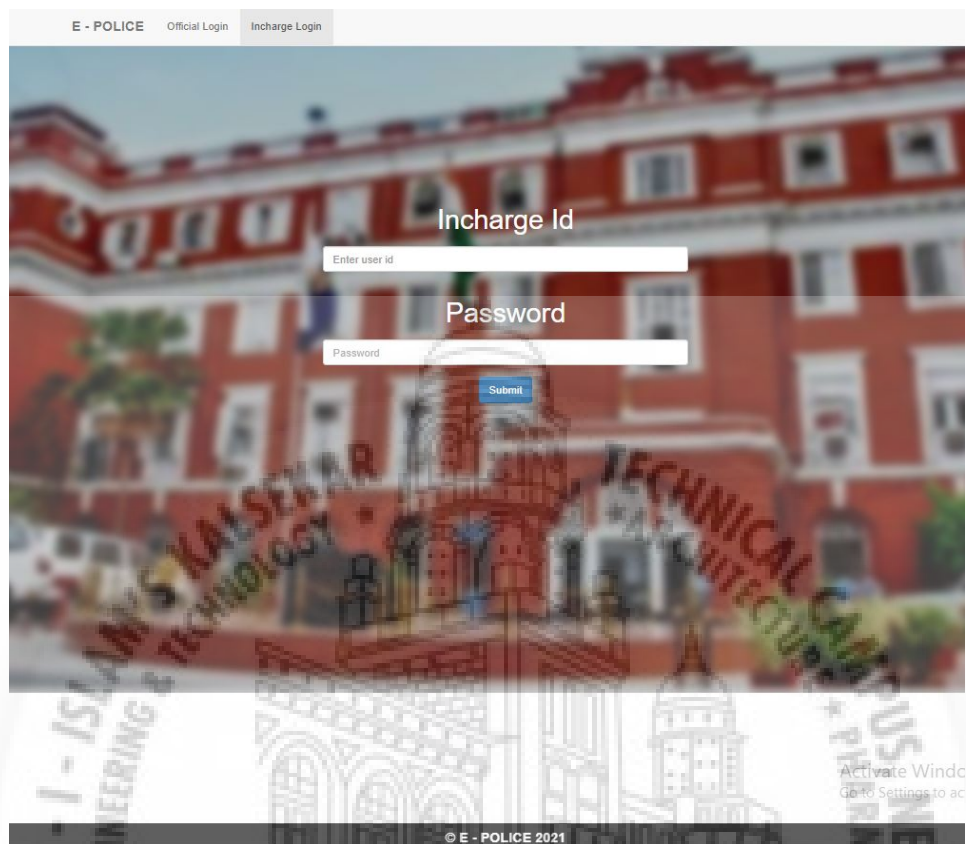
```php
1   <!DOCTYPE html>
2  <html>
3  <head>
4  <?php
5
6
7  if(isset($_POST['s']))
8  {
9      session_start();
10     $_SESSION['x']=1;
11     $con=mysqli_connect('localhost','root','','crime_portal');
12     if(!$con)
13     {
14         die('could not connect: '.mysqli_error());
15     }
16     //mysqli_select_db("crime_portal",$con);
17
18     if($_SERVER["REQUEST_METHOD"]=="POST")
```

```php
19      {
20          $name=$_POST['email'];
21          $pass=$_POST['password'];
22          $u_id=$_POST['email'];
23          $_SESSION['u_id']=$u_id;
24          $result=mysqli_query($con,"SELECT u_id,u_pass FROM user where u_id='
                $name' and u_pass='$pass' ");
25
26
27
28
29          if(!$result || mysqli_num_rows($result)==0)
30          {
31              $message = "Id or Password not Matched.";
32              echo "<script type='text/javascript'>alert('$message');</script>";
33
34
35          }
36          else
37          {
38              header("location:complainer_page.php");
39
40          }
41      }
42  }
43  ?>
44      <link rel="stylesheet" type="text/css" href="https://maxcdn.bootstrapcdn.com/
            bootstrap/3.3.5/css/bootstrap.min.css">
45      <link rel="stylesheet" type="text/css" href="https://maxcdn.bootstrapcdn.com/
            font-awesome/4.4.0/css/font-awesome.min.css">
46      <link href="http://fonts.googleapis.com/css?family=Lato:300,400,700,300italic
            ,400italic,700italic" rel="stylesheet" type="text/css">
47
48      <script>
49        function f1()
50          {
51              var sta2=document.getElementById("exampleInputEmail1").value;
52              var sta3=document.getElementById("exampleInputPassword1").value;
53              var x2=sta2.indexOf(' ');
54  var x3=sta3.indexOf(' ');
55      if(sta2!="" && x2>=0){
```

```
56    document.getElementById("exampleInputEmail1").value="";
57    document.getElementById("exampleInputEmail1").focus();
58      alert("Space Not Allowed");
59        }
60        else if(sta3!="" && x3>=0){
61    document.getElementById("exampleInputPassword1").value="";
62    document.getElementById("exampleInputPassword1").focus();
63      alert("Space Not Allowed");
64        }
65
66 }
67    </script>
68
69  <title>Complainant Login</title>
70 </head>
71 <body style="background-size: cover;
72    background-image: url(regi_bg.jpeg);
73    background-position: center;">
74  <nav class="navbar navbar-default navbar-fixed-top" style="height: 60px;">
75  <div class="container">
76    <div class="navbar-header">
77
78      <a class="navbar-brand" href="home.php" style="margin-top: 5%;"><b>E -
          POLICE</b></a>
79    </div>
80    <div id="navbar" class="collapse navbar-collapse">
81      <ul class="nav navbar-nav">
82        <li class="active" style="margin-top: 5%;"><a href="userlogin.php">
            Complainer Login</a></li>
83      </ul>
84
85
86    </div>
87   </div>
88  </nav>
89  <div  align="center" >
90  <div class="form" style="margin-top: 15%">
91    <form method="post">
92  <div class="form-group" style="width: 30%">
93    <label for="exampleInputEmail1"><h1 style="color: #fff;">User Id</h1></label
        >
```

```
94    <input type="email" class="form-control" id="exampleInputEmail1" aria-
          describedby="emailHelp" size="5" placeholder="Enter Email id" required
          name="email" onfocusout="f1()">
95      </div>
96   <div class="form-group" style="width:30%">
97     <label for="exampleInputPassword1"><h1 style="color: #fff;">Password </h1></
          label>
98     <input type="password" class="form-control" id="exampleInputPassword1"
          placeholder="Password" required name="password" onfocusout="f1()">
99   </div>
100
101  <button type="submit" class="btn btn-primary" name="s" onclick="f1()">Submit</
          button>
102 </form>
103    </div>
104 </div>
105 <div style="position: fixed;
106     left: 0;
107     bottom: 0;
108     width: 100%;
109     background-color: rgba(0,0,0,0.7);
110     color: white;
111     text-align: center;">
112  <h4 style="color: white;">&copy <b>E - POLICE 2021</b></h4>
113 </div>
114
115 </body>
116 </html>
```

6.6 Police

Figure 6.6: Case Details

Figure 6.7: Complaint History

Complaint Id	Type of Crime	Date of Crime	Location of Crime	Complainant Mobile	Complainant Address

E - POLICE   Official Login   Police Login   Police Home   Pending Complaints   Completed Complaints   Logout

Figure 6.8: Completed Case

```php
1  <!DOCTYPE html>
2  <html>
3  <head>
4
5      <?php
6      session_start();
7      if(!isset($_SESSION['x']))
8          header("location:policelogin.php");
9
10     $conn=mysqli_connect("localhost","root","","crime_portal");
11     if(!$conn)
12     {
13         die("could not connect".mysqli_error());
14     }
15     // mysqli_select_db("crime_portal",$conn);
16
17     $cid=$_SESSION['cid'];
18     $p_id=$_SESSION['pol'];
19
20     $query="select c_id,type_crime,d_o_c,description,mob,u_addr from complaint
           natural join user where c_id='$cid' and p_id='$p_id'";
21     $result=mysqli_query($conn,$query);
22
23     if(isset($_POST['status'])){
24         if($_SERVER["REQUEST_METHOD"]=="POST")
25         {
26             $upd=$_POST['update'];
27             $qu1=mysqli_query($conn,"insert into update_case(c_id,case_update)
                   values('$cid','$upd')");
28         }
```

```
29        }

30

31        if ( isset ($_POST['close'])){
32            if ($_SERVER["REQUEST_METHOD"]=="POST")
33            {
34                $up=$_POST['final_report'];
35                $qu2=mysqli_query($conn,"insert into update_case(c_id,case_update)
                      values('$cid','$up')");
36                $q2=mysqli_query($conn,"update complaint set pol_status='ChargeSheet
                      Filed' where c_id='$cid'");

37
38            }
39        }
40        $res2=mysqli_query($conn,"select d_o_u,case_update from update_case where
                c_id='$cid'");

41
42        ?>

43
44    <title>Incharge Homepage</title>
45    <link rel="stylesheet" type="text/css" href="https://maxcdn.bootstrapcdn.com/
            bootstrap/3.3.5/css/bootstrap.min.css">
46    <link rel="stylesheet" type="text/css" href="https://maxcdn.bootstrapcdn.com/
            font-awesome/4.4.0/css/font-awesome.min.css">
47    <link href="http://fonts.googleapis.com/css?family=Lato:300,400,700,300italic
            ,400italic,700italic" rel="stylesheet" type="text/css">
48 <script>
49        function f1()
50            {
51            var sta2=document.getElementById("ciid").value;
52            var x2=sta2.indexOf('/');
53            if(sta2=="" && x2>=0){
54                document.getElementById("ciid").value="";
55                alert("Blank FIeld Not Allowed");
56            }
57        }
58    </script>
59 </head>
60 <body>
61    <nav class="navbar navbar-default navbar-fixed-top">
62    <div class="container">
63        <div class="navbar-header">
```

```html
64        <button type="button" class="navbar-toggle collapsed" data-toggle="
             collapse" data-target="#navbar" aria-expanded="false" aria-controls="
             navbar">
65          <span class="sr-only">Toggle navigation </span>
66          <span class="icon-bar"></span>
67          <span class="icon-bar"></span>
68          <span class="icon-bar"></span>
69         </button>
70         <a class="navbar-brand" href="home.php"><b>E - POLICE</b></a>
71       </div>
72       <div id="navbar" class="collapse navbar-collapse">

74        <ul class="nav navbar-nav navbar-right">
75          <li ><a href="police_pending_complain.php">View Complaints </a></li>
76          <li class="active" ><a href="police_complainDetails.php">Complaints
               Details </a></li>
77          <li ><a href="p_logout.php">Logout &nbsp <i class="fa fa-sign-out" aria-
               hidden="true"></i></a></li>
78        </ul>
79       </div>
80     </div>
81   </nav>
82 <div style="padding:50px; margin-top:10px;">
83   <table class="table table-bordered">
84   <thead class="thead-dark" style="background-color: black; color: white;">
85   <tr>
86     <th scope="col">Complaint Id</th>
87     <th scope="col">Type of Crime</th>
88     <th scope="col">Date of Crime</th>
89     <th scope="col">Description </th>
90      <th scope="col">Complainant Mobile</th>
91      <th scope="col">Complainant Address </th>
92   </tr>
93     </thead>
94     <?php
95          while($rows=mysqli_fetch_assoc($result)){
96          ?>
97   <tbody style="background-color: white; color: black;">
98     <tr>
99     <td><?php echo $rows['c_id']; ?></td>
100    <td><?php echo $rows['type_crime']; ?></td>
```

```
101        <td><?php echo $rows['d_o_c']; ?></td>
102        <td><?php echo $rows['description']; ?></td>
103        <td><?php echo $rows['mob']; ?></td>
104        <td><?php echo $rows['u_addr']; ?></td>
105      </tr>
106       </tbody>
107        <?php
108 }
109 ?>
110
111 </table>
112   </div>
113
114 <div style="padding:50px; margin-top:8px;">
115    <table class="table table-bordered">
116        <thead class="thead-dark" style="background-color: black; color: white;"
             >
117    <tr>
118      <th scope="col">Date Of Update</th>
119      <th scope="col">Case Update</th>
120    </tr>
121       </thead>
122       <?php
123            while($rows1=mysqli_fetch_assoc($res2)){
124            ?>
125      <tbody style="background-color: white; color: black;">
126    <tr>
127
128      <td><?php echo $rows1['d_o_u']; ?></td>
129      <td><?php echo $rows1['case_update']; ?></td>
130
131
132    </tr>
133       </tbody>
134        <?php
135 }
136 ?>
137
138 </table>
139   </div>
140
```

```
141   <div style="width: 100%; height: 250px;">

142

143     <div style="width: 50%;float: left;height: 250px; background-color: #dcdcdc"
          >

144

145      <form method="post">

146

147       <h5 style="text-align: center;"><b>Complaint ID</b></h5>
148       <input type="text" name="cid" style="margin-left: 47%; width: 50px;"
            disabled value="<?php echo "$cid" ?>">

149

150

151       <select class="form-control" style="align-content: center;margin-top: 20px
            ; margin-left: 35%; width: 180px;" name="update">
152          <option>Criminal Verified</option>
153          <option>Criminal Caught</option>
154          <option>Criminal Interrogated</option>
155          <option>Criminal Accepted the Crime</option>
156          <option>Criminal Charged</option>
157       </select>

158

159       <input class="btn btn-primary btn-sm" type="submit" value="Update Case
            Status" name="status" style="margin-top: 10px; margin-left: 40%;">

160

161     </form>
162     </div>
163      <div style="width: 50%;float: right;height: 250px; background-color: #
            dfdfdf;">
164     <form method="post">
165     <textarea name="final_report" cols="40" rows="5" placeholder="Final Report"
            style="margin-top: 20px;margin-left: 20px;" id="ciid" onfocusout="f1()
            " required></textarea>
166     <div>
167      <input  class="btn btn-danger" type="submit" value="Close Case" name="
            close" style="margin-left: 20px; margin-top: 10px; margin-bottom:20px;
            ">
168      </div>
169     </form>
170    </div>

171

172   </div>
```

```
173      <div style="position: relative;
174       float: left;
175       margin-bottom: 0px;
176      left: 0;
177      bottom: 0;
178      width: 100%;
179      height: 30px;
180      background-color: rgba(0,0,0,0.8);
181      color: white;
182      text-align: center;">
183    <h4 style="color: white;">&copy <b>E - POLICE 2021</b></h4>
184  </div>
185
186  <script type="text/javascript" src="https://code.jquery.com/jquery-2.1.4.js"></
         script>
187  <script type="text/javascript" src="https://maxcdn.bootstrapcdn.com/bootstrap
         /3.3.5/js/bootstrap.min.js"></script>
188  </body>
189  </html>
```

6.7   Admin

Figure 6.9: Admin Home Page

Figure 6.10: Tracking Of Case And Status

E - POLICE   Official Login   Head Login   HQ Home   View Complaints   Police Station   Logout

Add Police Station

Incharge Id	Incharge Name	Location of Police Station
a103	Nameera	Mumbra
aalamara	Aalamara	Kurla
aanam	Aanam	Kalyan
rehal	Rehal	Kalamboli
saniya	Saniya	Panvel

Figure 6.11: Add New Police Station

```php
1   <!DOCTYPE html>
2   <html>
3   <head>
4
5   <?php
6   session_start();
7       if(!isset($_SESSION['x']))
8           header("location:headlogin.php");
9
10  $conn=mysqli_connect("localhost","root","","crime_portal");
11      if(!$conn)
12      {
13          die("could not connect".mysqli_error());
14      }
15  mysqli_select_db($conn,"crime_portal");
16
17      if(isset($_POST['s1']))
18      {
19      if($_SERVER["REQUEST_METHOD"]=="POST")
20      {
21          $cid=$_POST['cid'];
22          $_SESSION['cid']=$cid;
23          header("location:head_case_details.php");
24      }
25      }
26
```

```
27    if(isset($_POST['s2']))
28    {
29    if($_SERVER["REQUEST_METHOD"]=="POST")
30    {
31        $loc=$_POST['loc'];
32        $_SESSION['loc']=$loc;
33        header("location:headHome1.php");
34    }
35    }
36
37
38  ?>
39
40    <title>HQ Homepage</title>
41    <link rel="stylesheet" type="text/css" href="https://maxcdn.bootstrapcdn.com/
          bootstrap/3.3.5/css/bootstrap.min.css">
42    <link rel="stylesheet" type="text/css" href="https://maxcdn.bootstrapcdn.com/
          font-awesome/4.4.0/css/font-awesome.min.css">
43    <link href="http://fonts.googleapis.com/css?family=Lato:300,400,700,300italic
          ,400italic,700italic" rel="stylesheet" type="text/css">
44
45
46    <script>
47    function f1()
48        {
49
50            var sta2=document.getElementById("ciid").value;
51
52
53
54
55  var x2=sta2.indexOf(' ');
56
57
58
59
60
61    if(sta2!="" && x2>=0){
62    document.getElementById("ciid").value="";
63        alert("Blank Field Not Allowed");
64        }
```

```
65

66

67  }

68

69

70

71        </script>

72  </head>

73  <body style="background-image: url(search1.jpeg); ">

74    <nav  class="navbar navbar-default navbar-fixed-top">

75    <div class="container">

76      <div class="navbar-header">

77        <button type="button" class="navbar-toggle collapsed" data-toggle="
                collapse" data-target="#navbar" aria-expanded="false" aria-controls="
                navbar">

78          <span class="sr-only">Toggle navigation </span>

79          <span class="icon-bar"></span>

80          <span class="icon-bar"></span>

81          <span class="icon-bar"></span>

82        </button>

83        <a class="navbar-brand" href="home.php"><b>E - POLICE</b></a>

84      </div>

85      <div id="navbar" class="collapse navbar-collapse">

86        <ul class="nav navbar-nav">

87          <li ><a href="official_login.php">Official Login </a></li>

88          <li ><a href="headlogin.php">HQ Login </a></li>

89          <li class="active"><a href="headHome.php">HQ Home</a></li>

90        </ul>

91        <ul class="nav navbar-nav navbar-right">

92          <li class="active" ><a href="headHome.php">View Complaints </a></li>

93          <li ><a href="head_view_police_station.php">Police Station </a></li>

94          <li><a href="h_logout.php">Logout &nbsp <i class="fa fa-sign-out" aria-
                hidden="true"></i></a></li>

95        </ul>

96      </div>

97    </div>

98    </nav>

99

100  <div>

101      <form style="margin-top: 10%; margin-left: 40%;" method="post">
```

```
102       <input type="text" name="cid" style="width: 250px; height: 30px;"
              placeholder="&nbsp Complaint Id" id="ciid" onfocusout="f1()" required>
103         <div>
104         <input class="btn btn-primary" type="submit" value="Search" name="s1"
                 style="margin-top: 10px; margin-left: 11%;">
105       </div>
106       </form>
107
108       <form style="margin-top: 3%; margin-left: 40%;" method="post">
109       <select name="loc" class="form-control" style="width: 250px;">
110
111             <?php
112                        $loc=mysqli_query("select location from police_station")
                           ;
113                        while($row=mysqli_fetch_array($loc))
114                        {
115                        ?>
116                            <option> <?php echo $row[0]; ?> </option>
117                        <?php
118                        }
119                        ?>
120       </select>
121
122           <input class="btn btn-primary" type="submit" value="Search" name="s2"
                 style="margin-top: 10px; margin-left: 11%;">
123       </form>
124   </div>
125
126 <div style="position: fixed;
127     left: 0;
128     bottom: 0;
129     width: 100%;
130     background-color: rgba(0,0,0,0.5);
131     color: white;
132     text-align: center;">
133   <h4 style="color: white;">&copy <b>E - POLICE 2021</b></h4>
134 </div>
135
136
137 <script type="text/javascript" src="https://code.jquery.com/jquery-2.1.4.js"></
        script>
```

```
138  <script type="text/javascript" src="https://maxcdn.bootstrapcdn.com/bootstrap
         /3.3.5/js/bootstrap.min.js"></script>
139  </body>
140  </html>
```

Chapter 7

System Testing

WRITE HERE.

7.1 Test Cases and Test Results

Test ID	Test Case Title	Test Condition	System Behavior	Expected Result
T01	User Registration	Valid	GOOD	Valid
T02	User Login	Valid	GOOD	Valid
T03	Complaints	Registered Successfully	GOOD	Registered Successfully

7.2 Sample of a Test Case

Title: Login Page – Authenticate Successfully on gmail.com

Description: A registered user should be able to successfully login at gmail.com.

Precondition: the user must already be registered with an email address and password.

Assumption: a supported browser is being used.

Test Steps:

1. In the 'email' field, enter the email of the registered user.

2. Enter the password of the registered user

3. Click 'Sign In'

Expected Result: A page displaying the user name and registration of new complaint **Actual Result:**

Figure 7.1: Registration Of New Complaint

Chapter 8
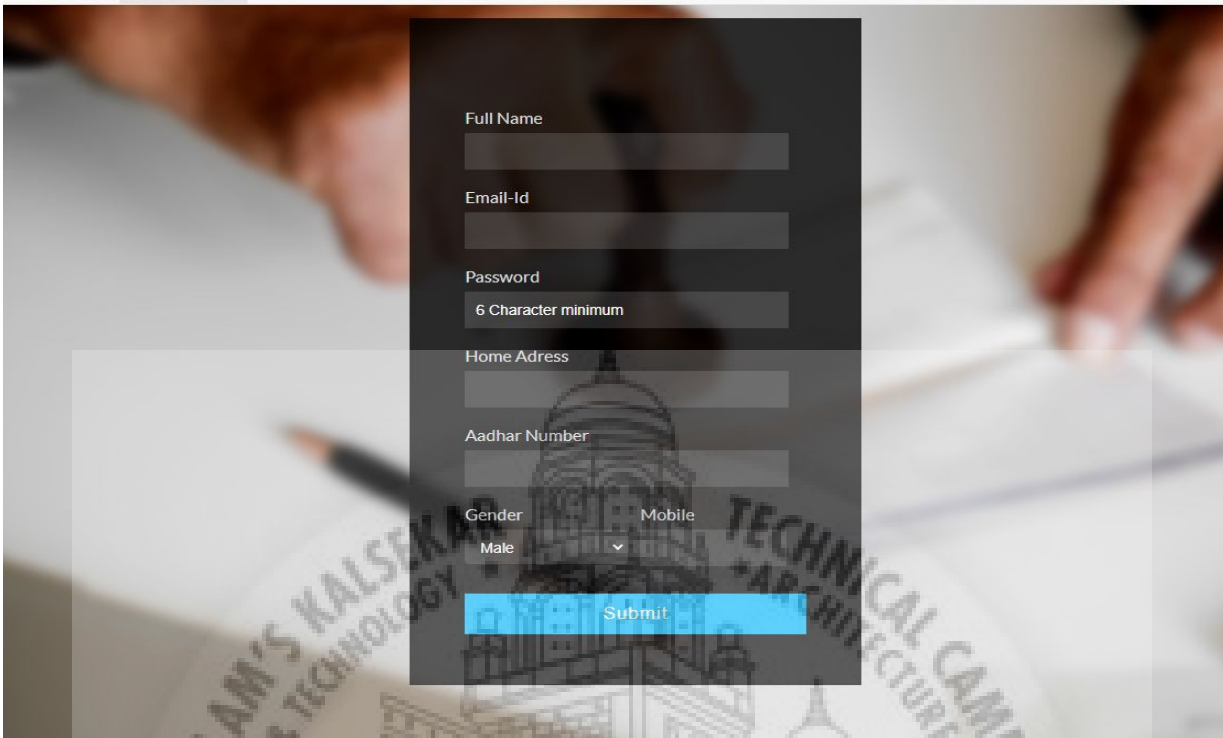
Screenshots of Project

8.1   SECTION NAME

E - POLICE   Registration
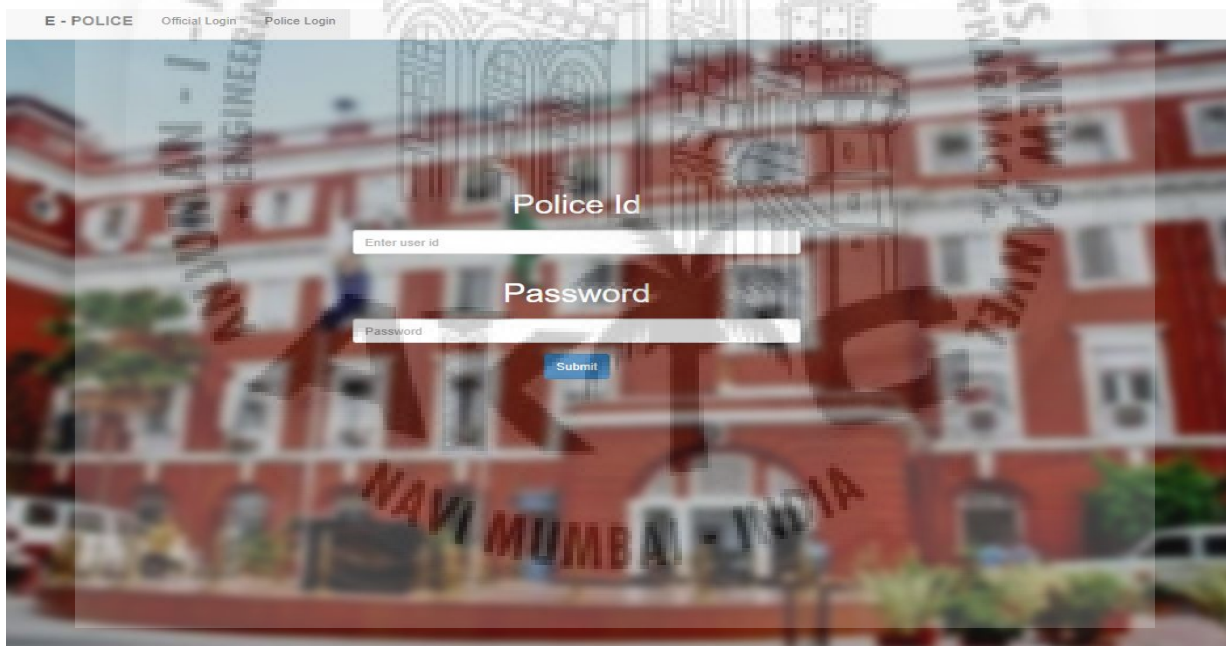
Full Name

Email-Id
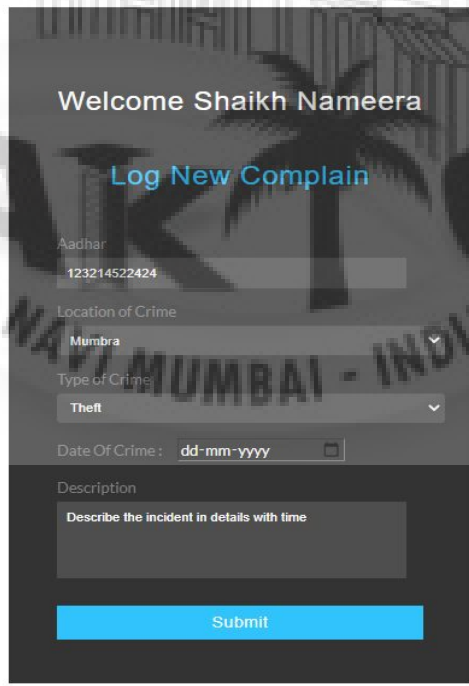
Password

6 Character minimum

Home Adress

Aadhar Number

Gender   Mobile
Male

Submit

Home   User Login   User Home   Log New Complain   Complaint History   Logout

Welcome Shaikh Nameera

Log New Complain

Aadhar
123214522424

Location of Crime
Mumbra

Type of Crime
Theft

Date Of Crime : dd-mm-yyyy

Description
Describe the incident in details with time

Submit

© E - POLICE 2021

E - POLICE   Official Login

Police Login

[Police Login]
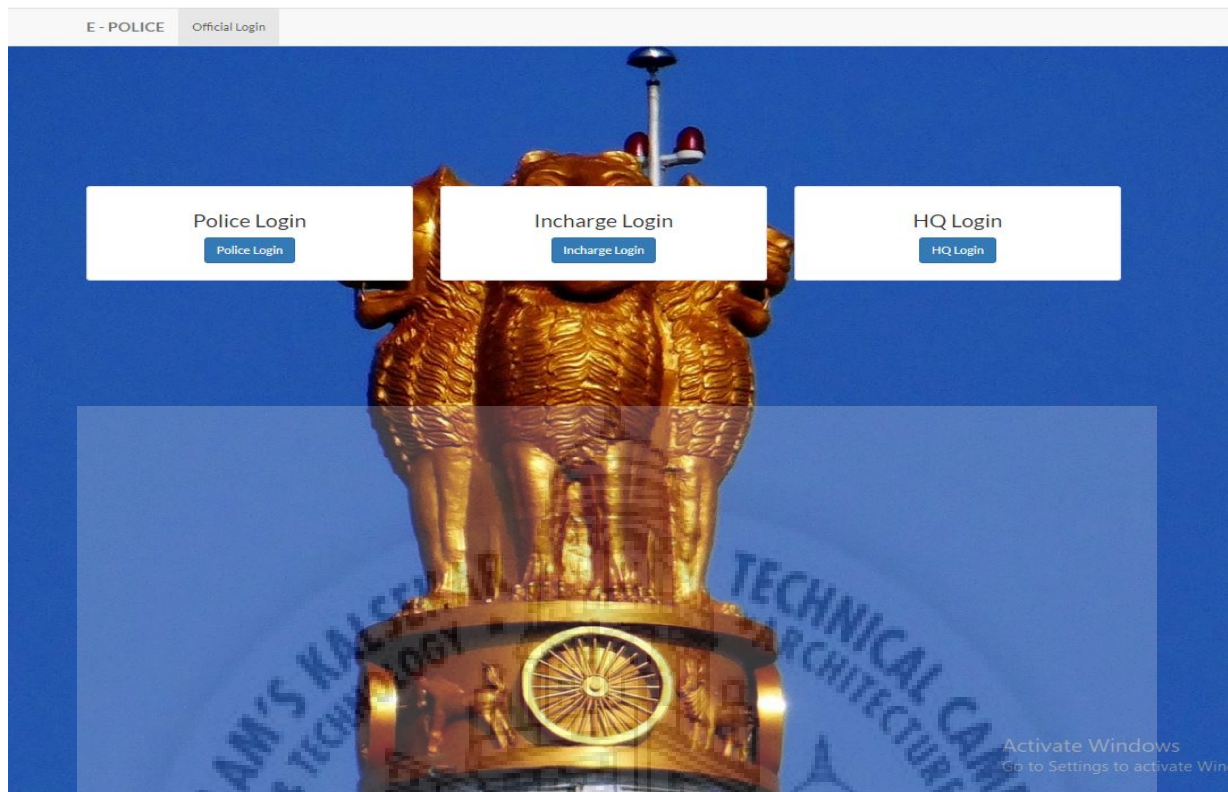
Incharge Login

[Incharge Login]

HQ Login

[HQ Login]

E - POLICE   Official Login   Incharge Login   Incharge Home   View Complaints   Police Officers   Logout

[Add Police Officers]

Police Id	Police Name	Specialist	Location
aalamara	Aalamara	Theft	Mumbra
aanam	Aanam	Robery	Mumbra
nameera	Nameera	Murder	Mumbra
saniya	Saniya	All	Mumbra

Police Id

[Delete Police]

E - POLICE   View Complaints   Complaints Details   Logout ⤶

Complaint Id	Type of Crime	Date of Crime	Description	Complainant Mobile	Complainant Address

Date Of Update	Case Update
2021-05-23 22:02:08	Pending
2021-05-24 22:19:17	Criminal Interrogated
2021-05-24 22:19:30	Criminal Caught
2021-05-24 22:20:28	Criminal Interrogated
2021-05-24 22:20:44	Criminal Interrogated

Complaint ID

2

Criminal Verified ⌄

Final Report

Update Case Status

Close Case

© E - POLICE 2021

Chapter 9

Conclusion

9.1   Conclusion

E-police station application system provides simple and user-friendly interface. The development of the interface that will help citizens in area to communicate with security services (police departments) quickly and easily. Users can report a crime or a complaint from anywhere online. The police officials can view the reports and take appropriate actions against the crimes or complaints by applying a systematic, quick and easy approach. This project could be later integrated into the Smart e-Government system in other states of India and is available in other languages like Hindi, Marathi, etc.

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