

CRIME MANAGEMENT SYSTEM

**A PROJECT REPORT SUBMITTED IN PARTIAL
FULFILMENT OF REQUIREMENT
FOR THE AWARD OF THE DEGREE
MASTER OF COMPUTER APPLICATION(MCA)**

OF

MAHATMA GANDHI UNIVERSITY, KOTTAYAM

BY

Vineetha S

Reg No : 22PMC158



**MARIAN COLLEGE
KUTTIKKANAM**

(AUTONOMOUS)

MAKING COMPLETE

Marian College Kuttikkanam Autonomous

Peermade, Kerala – 685 531

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CERTIFICATE

This is to certify that the project work entitled

ONLINE SPICE SHOPPING

is a bonafide record of work done by

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During the academic year 2022-2023

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VINEETHA S

ABSTRACT

The Crime Management System is an integrated web-based platform designed to facilitate efficient management of crime-related activities and provide support for police and users. It aims to streamline the process of reporting crimes, managing complaints, and maintaining criminal records. The system incorporates features such as profile management, police details, complaint and crime reporting, news uploading, complaint status updates, criminal detail management, and user support.

OBJECTIVE AND SCOPE OF THE PROJECT

The objective of the Crime Management System project is to develop a comprehensive software solution that addresses the following goals:

- **Efficient Management:** To streamline and enhance the management of criminal activities, including the recording, tracking, and updating of criminal records and related information.
- **Effective Complaint Handling:** To provide a user-friendly platform for individuals to file complaints regarding criminal activities, enabling prompt and accurate processing of complaints by authorized personnel.
- **Transparency and Accountability:** To ensure transparency in the handling of complaints by allowing users to track the status of their complaints and receive updates on the progress of investigations.
- **Centralized Data Repository:** To establish a centralized database of criminal records, enabling quick and easy access to relevant information for authorized Police and users.
- The overall objective of the project is to enhance the efficiency, effectiveness, and transparency of crime management processes, ultimately contributing to improved crime prevention, law enforcement, and public safety.

METHODOLOGY OF THE PROJECT

This project crime management system has three main modules user , police and admin.

It has done using python as frond end and sqlite3 as backend. And Django-Jazzmin to customize django-admin.

HARDWARE SPECIFICATION:

- Processor: intel i5
- Hard Disk:1TB
- Ram:8GB

SOFTWATE SPECIFICATION:

- Database server: Sqlite3
- Client: Microsoft Internet Explorer or any browser
- Development Tools: Pycharm. Microsoft visual studio code
- Programming Language: Python

CONCLUSION

The Crime Management System is a web-based software application designed to facilitate efficient and organized management of crime-related information. It serves as a valuable tool for managing news uploads, criminal details, complaints, and profiles, providing a reliable platform for reporting and addressing complaints and crimes within the specified domain.

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1.INTRODUCTION

1.1 PROBLEM STATEMENTS

The current manual methods of managing criminal activities and related processes pose several challenges, including inefficiency, lack of transparency, and difficulty in information sharing. These challenges can hinder effective crime prevention and law enforcement efforts. Therefore, there is a need for a comprehensive Crime Management System that addresses these issues and provides an integrated software solution to streamline and enhance crime management processes.

The key problems that the project aims to address are:

1. .Inefficient Data Management.
2. .Ineffective Complaint Handling.
3. Limited Information Sharing and Collaboration. 4. Insufficient User Support

1.2 PROPOSED PROJECT

The proposed Crime Management System aims to improve efficiency, transparency, and collaboration in crime management processes. By providing a centralized platform for data management, complaint handling, reporting, and analysis, the system will empower law enforcement agencies and contribute to enhanced crime prevention and public safety.

1.3 FEATURES OF PROPOSED SYSTEM

- **User-Friendly Interface:** The system will have an intuitive and user-friendly interface to ensure easy navigation and efficient use by authorized personnel and end-users.
- **Criminal Detail Management:** A centralized database will be implemented to store and manage criminal records. Authorized personnel can efficiently add, update, and search for criminal details, including personal information, aliases, physical attributes, known associates, and previous convictions.

- **Complaint Management:** The system will provide a platform for individuals to file complaints related to criminal activities. Users can submit details such as the date, time, location, description, and any supporting evidence. A unique complaint ID will be generated for efficient tracking and reference.
- **Status Tracking and Updates:** Authorized Policel can update the status of complaints based on the progress of investigations. Users will have the ability to track the status of their complaints and receive updates, ensuring transparency and timely communication.
- **News and Updates:** Admin can upload news articles and updates related to criminal incidents. Users will have access to the news section to stay informed about recent criminal activities and developments.
- **User Support:** The system will provide a dedicated user support.
- **Police Details:** The system will maintain a database of police personnel, including their names, ranks, contact information, and assigned areas of jurisdiction. Admin can add, update, and search for police details.

2.FUNCTIONAL REQUIREMENTS

1. News Uploading

- News Uploading Feature allows police and admin to add news, which can be viewed by users.

2. Criminal Detail Management

- Maintain a database to store and manage criminal records.
- Include details such as name, aliases, physical attributes, known associates, previous convictions, etc.
- Allow police to add, update, and search for criminal records efficiently.

3 Receive Complaints and Update status.

- Allow police to update the status of complaints based on investigation progress.
- Users can view the status of their complaints to stay informed about the progress made.

.4. Profile Management

- Users and police should be able to create and manage their profiles.
- Include personal information, contact details, and login credentials.
- Enable users to update their profiles and change passwords.
- Users can register their complaints Police can view respective complaints and update the complaint status.

5.Complaint and Crime Reporting

- Users can register their complaints Police can view respective complaints and update the complaint status.

6. User Support

- Offer a support system to address user queries, issues, or complaints.

7. Add Police Details

- Maintain a database of police personnel with their relevant details.
- Include information like name, rank, contact information, and assigned areas of jurisdiction.
- Allow admin to add, update, and search for police details.

3.NON FUNCTIONAL REQUIREMENS

3.1 RELIABILITY

The reliability of the overall project depends on the reliability of the separate components.

The main pillar of reliability of the system is the backup of the database which is continuously maintained and updated to reflect the most recent changes, Also the system will be functioning inside a container. Thus, the overall stability of the system depends on the stability of container and its underlying operating system.

3.2 AVAILABILITY

The system should be available at all times, meaning the user can access it using a web browser, only restricted by the down time of the server on which the system runs. A customer friendly system which is access of people around the world should work 24 hours. In case of a hardware failure or database corruption, a replacement page will be shown. Also in case of a hardware failure or database corruption, backup of the database should be retrieved from the server and saved by the Organizer. Then the services will be restarted. It means 24 X 7 availability.

3.3 MAINTAINABILITY

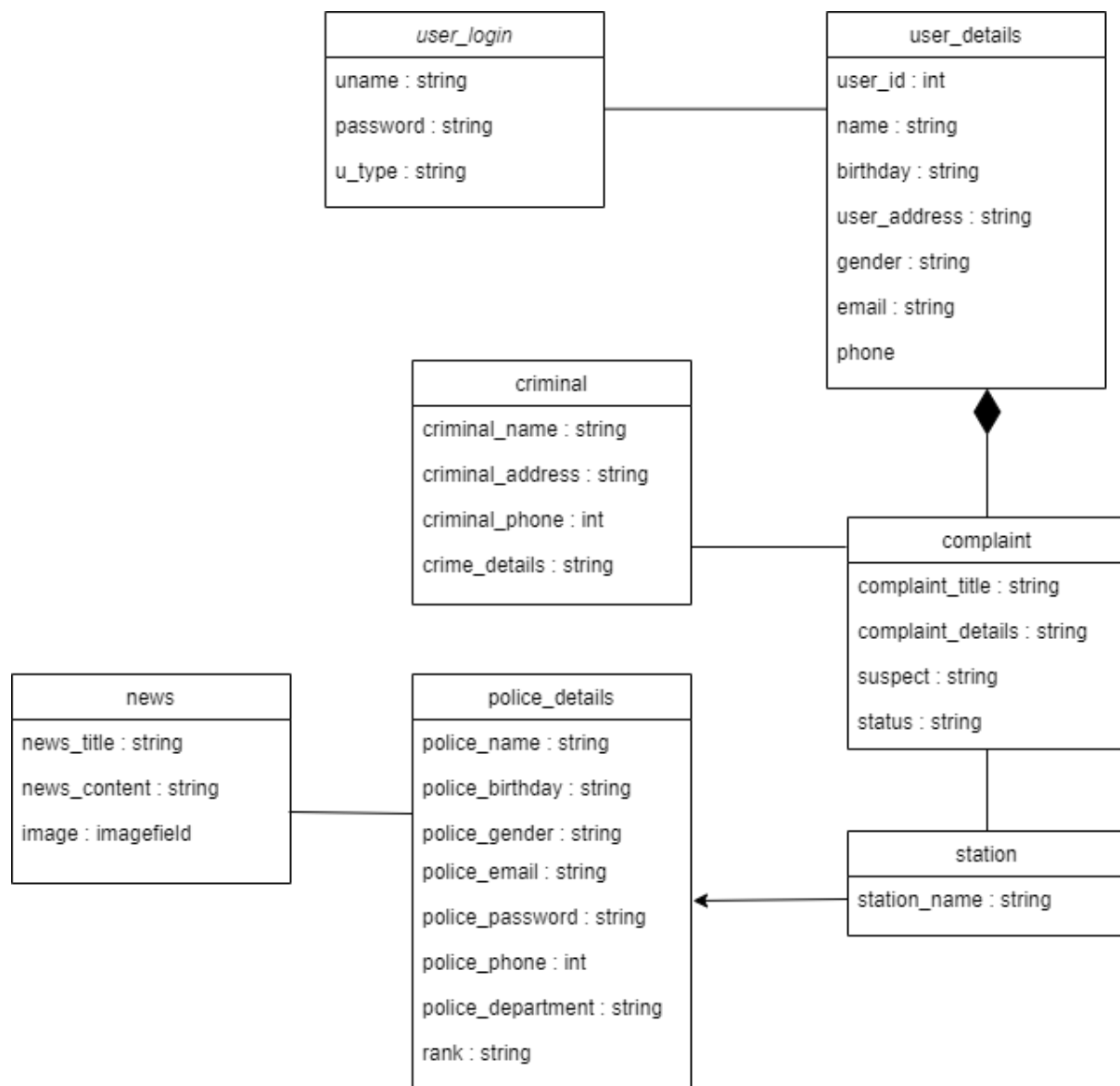
A commercial database is used for maintaining the database and the application server takes care of the site. In case of a failure, a re-initialization of the project will be done. Also, the software design is being done with modularity in mind so that maintainability can be done efficiently.

3.4 SUPPORTABILITY

The code and supporting modules of the system will be well documented and easy to understand. Online documentation and help system requirements

4.UML DIAGRAMS

4.1 CLASS DIAGRAMS



5.INPUT DESIGN AND OUTPUT DESIGN

INPUT DESIGN

Input design is one of the most important phase of the system design. Input design is the process where the input received in the system are planned and designed, so as to get necessary information from the user, eliminating the information that is not required. The aim of the input design is to ensure the maximum possible levels of accuracy and also ensures that the input is accessible that understood by the user.

OUTPUT DESIGN

Output design is very important concept in the computerized system, without reliable output the user may feel the entire system is unnecessary and avoids using it. The proper output design is important in any system and facilitates effective decision-making.

6.FUTURE ENHANCEMENT

6.FUTURE ENHANCEMENT

- **Capturing Images of Criminals Using Webcam:** Adding the functionality for police to capture the picture of criminals using a webcam during the process of adding their details can enhance the accuracy and completeness of criminal records. This visual identification can be valuable in investigations, identification lineups, and sharing information with other law enforcement agencies.
- **Machine Learning for Criminal Identification:** Integrating machine learning algorithms and facial recognition technology can significantly improve the system's capability to identify criminals. By training the system on a large dataset of criminal images, it can learn to recognize patterns and unique facial features associated with known criminals. This can assist in quick identification and linking of individuals to criminal activities.

9. CONCLUSION

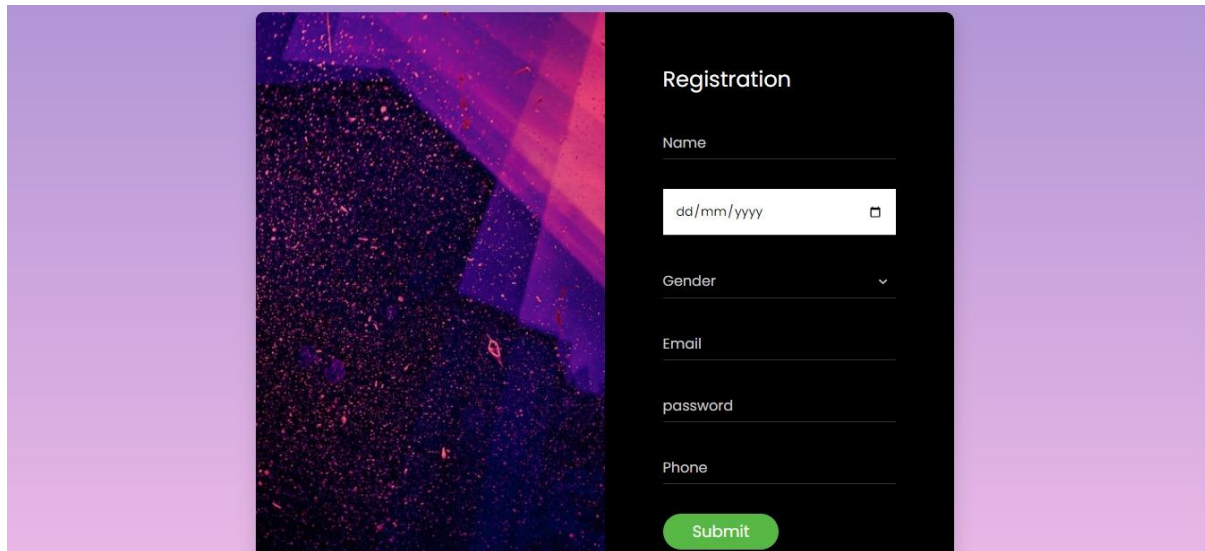
The Crime Management System project aimed to develop a comprehensive software solution to address the challenges and limitations of manual crime management methods. The system encompasses modules for news uploading, criminal detail management, complaint handling, profile management, complaint and crime reporting, user support, and police details. Through the implementation of the Crime Management System, several key objectives were achieved. The system provides a centralized repository for managing criminal records, ensuring efficient data management and easy access to relevant information. The complaint management module enables individuals to file complaints, while authorized personnel can update the status of complaints, promoting transparency and timely communication.

REFERENCES

- Stack Overflow: <https://stackoverflow.com/>
- ChatGPT
- Django Jazzmin Documentation:
- <https://django-jazzmin.readthedocs.io/>

11.ANNEXURE

FIGURE 1 : Registration



The registration form is displayed on a dark background with a vibrant, abstract purple and pink geometric pattern on the left. The form itself is a dark gray rectangle with white text and input fields. It includes fields for Name, a date of birth selector (dd/mm/yyyy), Gender (a dropdown menu), Email, password, and Phone. A green Submit button is located at the bottom right of the form.

Registration

Name

dd/mm/yyyy

Gender

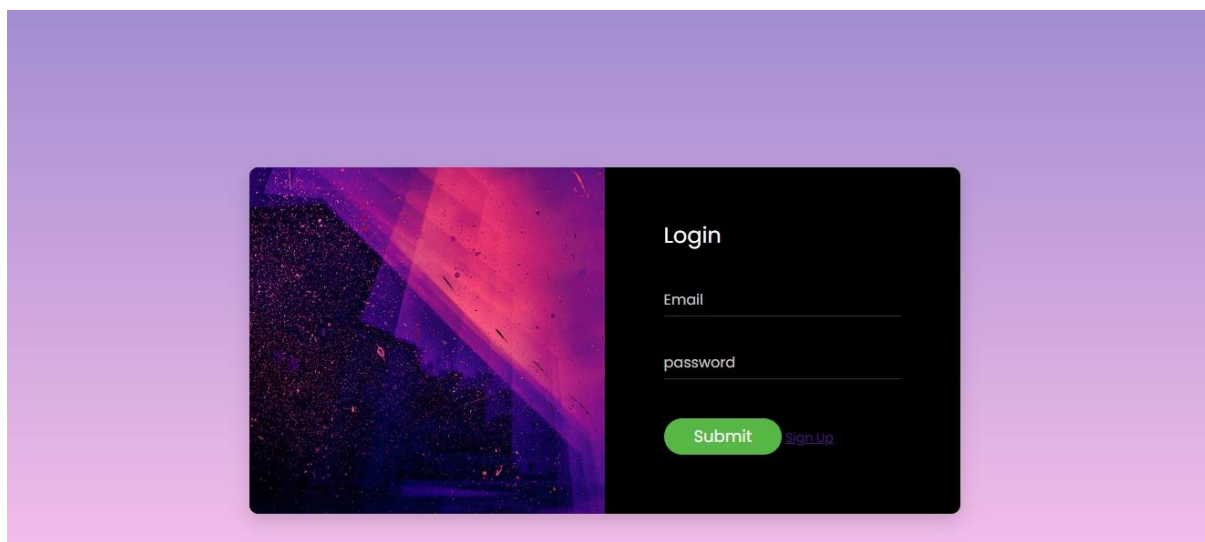
Email

password

Phone

Submit

FIGURE 2 : Login



The login form is displayed on a dark background with the same vibrant, abstract purple and pink geometric pattern on the left. The form is a dark gray rectangle with white text and input fields. It includes fields for Email and password. At the bottom, there is a green Submit button and a link labeled 'Sign Up' in blue text.

Login

Email

password

Submit Sign Up

FIGURE 3: Userhome

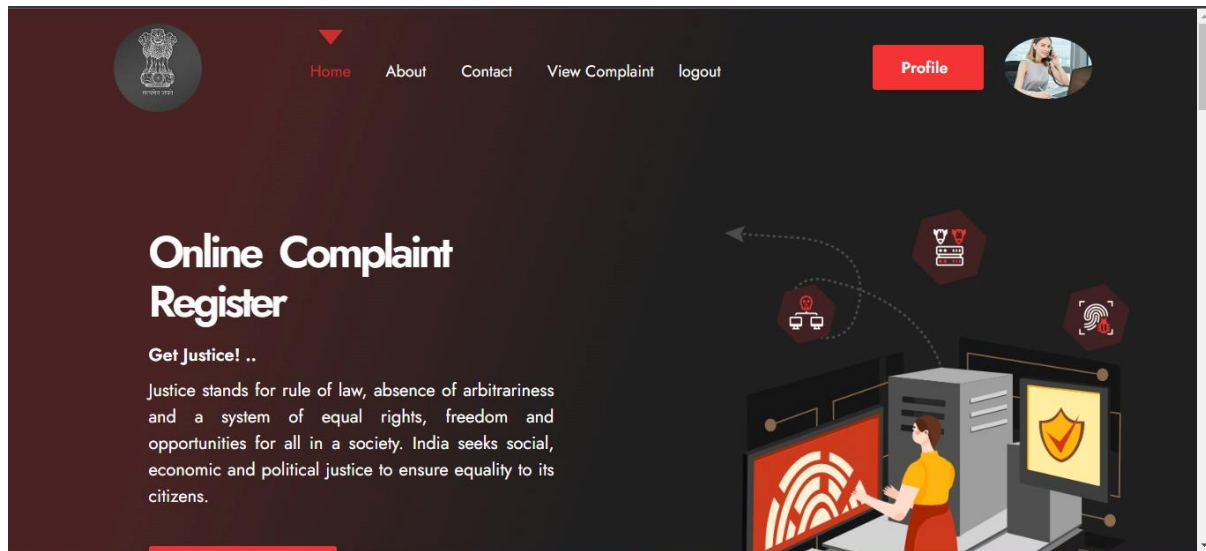


FIGURE 4 : User news view

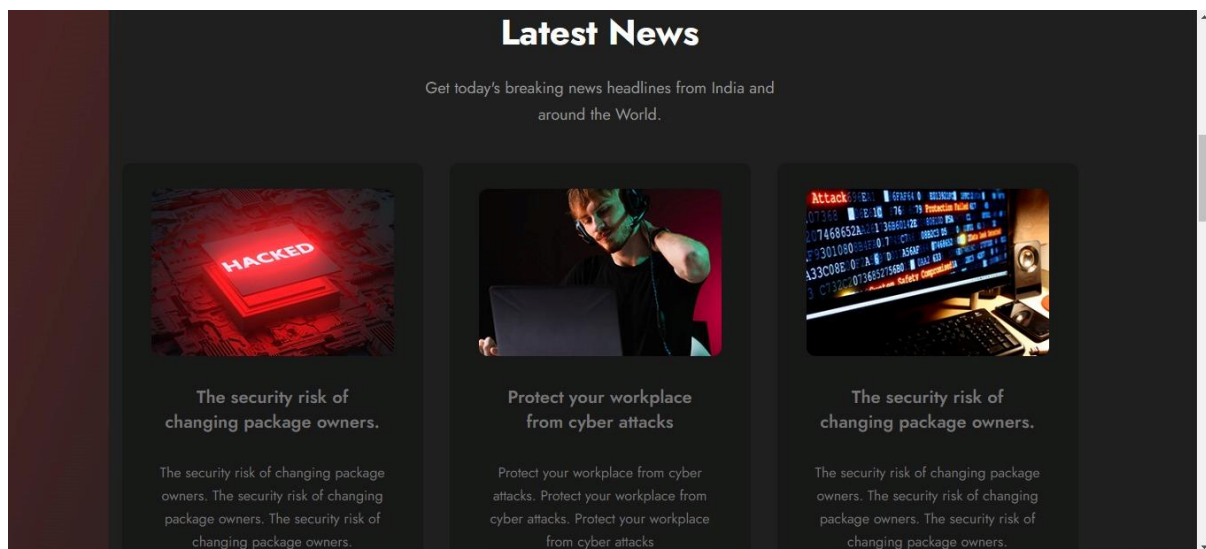



FIGURE 5: User Complaint Register


Complaint Registration



Get Iustice!

FIGURE 6: User View Complaints


Complaints



license pending

Date & Time : May 5, 2023, 12:42 p.m.


Complaint details : License missing
 Suspect : stranger
 User address : Idukki
 User name : testname
 Station : Idukki
 Complaint status : None



purchase property

Date & Time : April 17, 2023, 8:11 p.m.

Complaint details : Mr. Rahul told me that he would purchase property in my name and took pre-signed cheques an
 Suspect : John Wayne Gacy
 User address : Idukki
 User name : testname
 Station : Idukki
 Complaint status : None



The Station House Officer

Date & Time : April 17, 2023, 8:10 p.m.

Complaint details : Complaint against the following accused to register a FIR under section 403, 405, 406, 420, 120B and
 Suspect : stranger
 User address : Idukki
 User name : testname
 Station : Adimali
 Complaint status : None

FIGURE 7: User View Profile

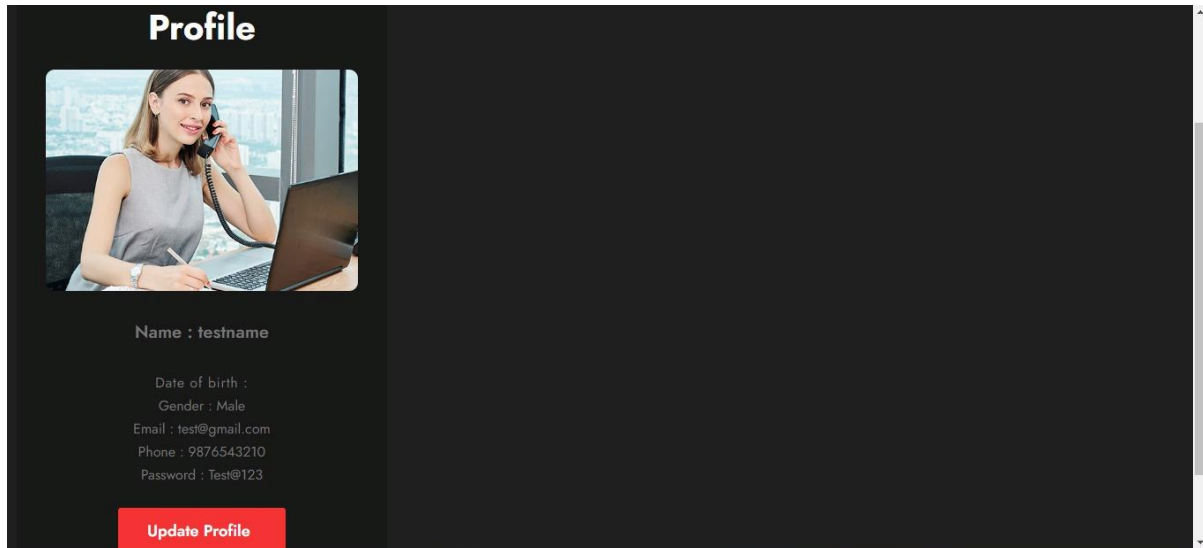


FIGURE 8: User Update Profile

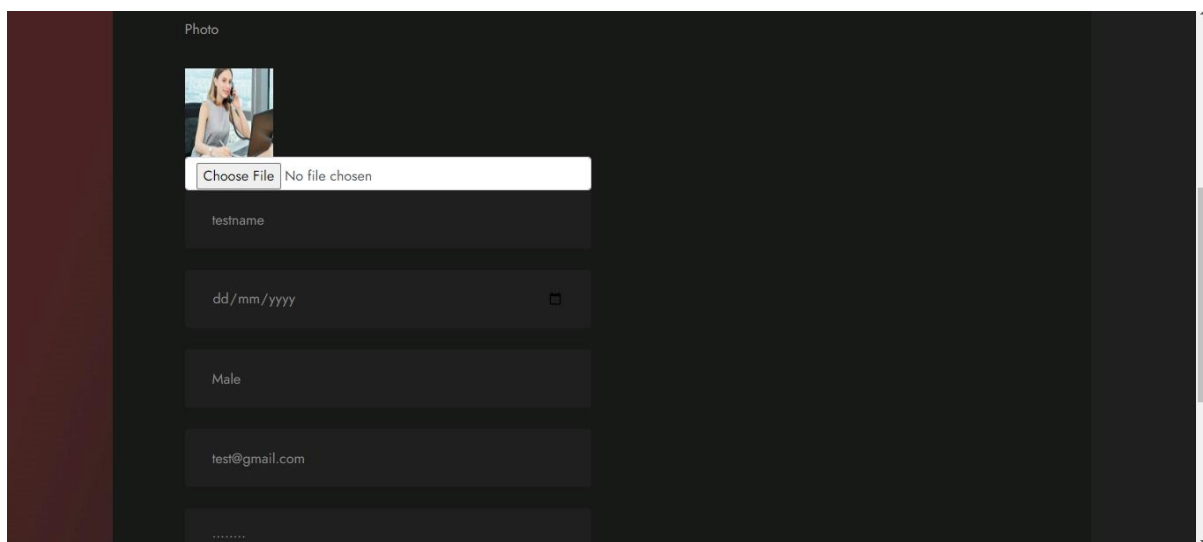
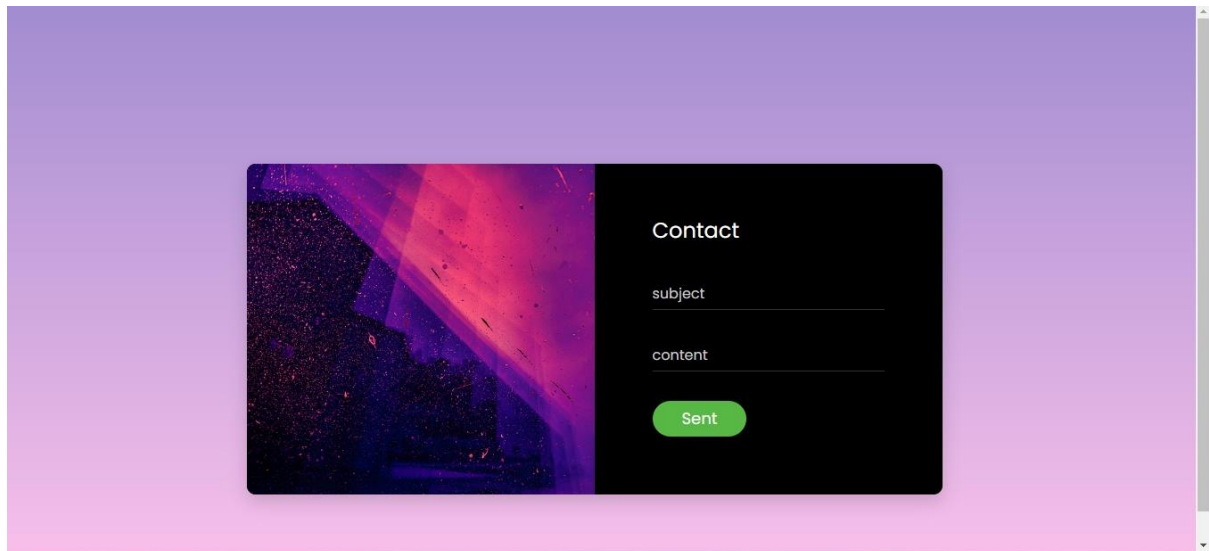


FIGURE 9: Contact



The image shows a contact form interface. On the left is a vertical rectangular image with a dark, abstract, purple and black pattern. To the right of this image is a dark gray rectangular box. Inside this box, the word "Contact" is written in white at the top. Below it are two input fields: the first is labeled "subject" and the second is labeled "content". Both labels are in a small, light gray font. Below the "content" field is a green rounded rectangular button with the word "Sent" in white.

FIGURE 10: Police Home

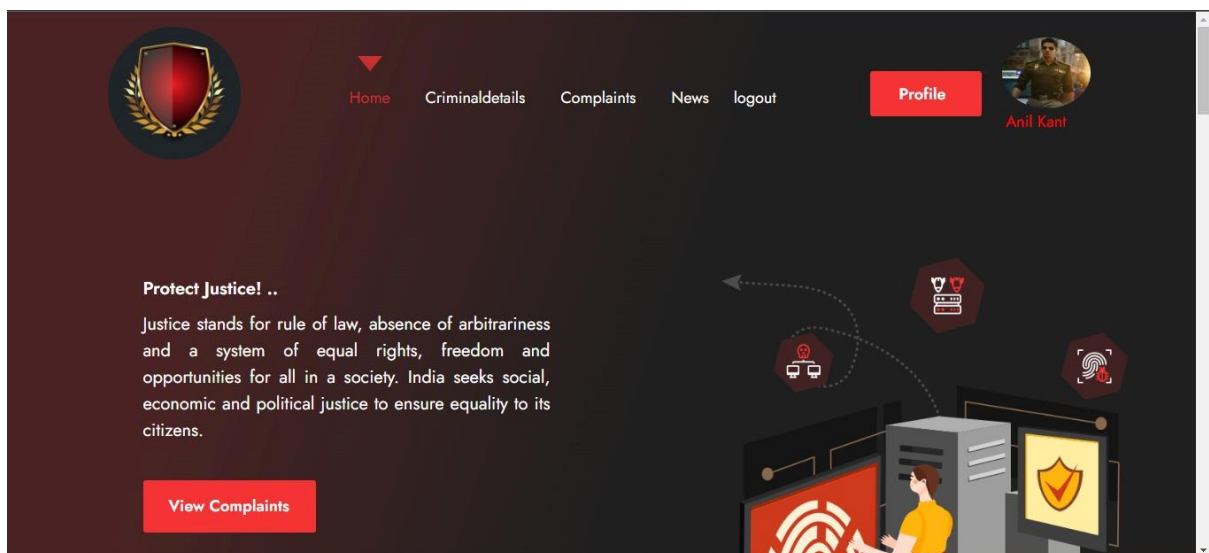


FIGURE 11: Police view complaints

Add Criminal Details

Name	Crime
Photo <input type="button" value="Choose File"/> No file chosen	
dd/mm/yyyy	Select Registered Station
Gender	Case Status

FIGURE 12: Police View Criminal details

Criminal Details

 <p>Name : Jesse James</p> <p>Date of birth : Sept. 13, 2001 Gender : Male Email : stranger@gmail.com Phone : 9876543234</p>	 <p>Name : John Wayne Gacy</p> <p>Date of birth : April 23, 2011 Gender : Male Email : vineetha@gmail.com Phone : 9999999999</p>	 <p>Name : Al Capone</p> <p>Date of birth : April 3, 2023 Gender : Male Email : vineetha@gmail.com Phone : 9999999999</p>
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FIGURE 13: Police view complaints

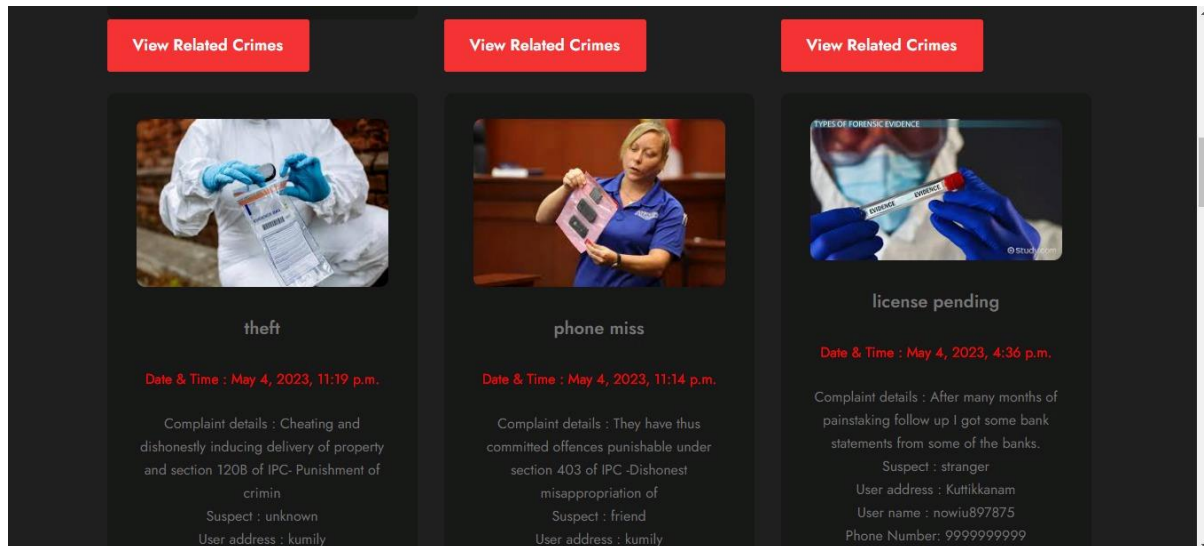


FIGURE 14: Related Crimes With Same Suspects

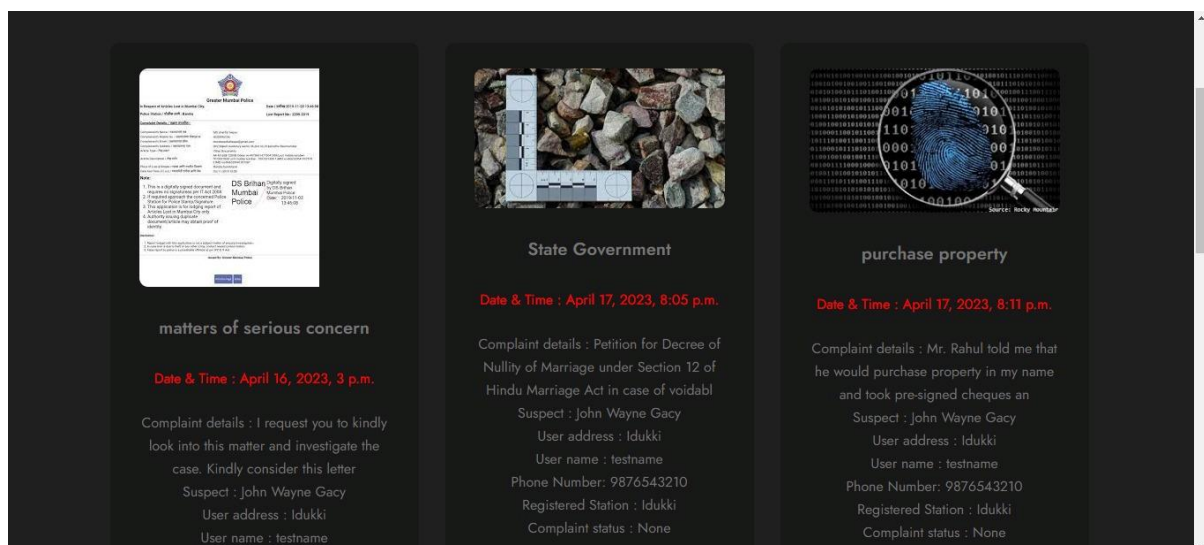
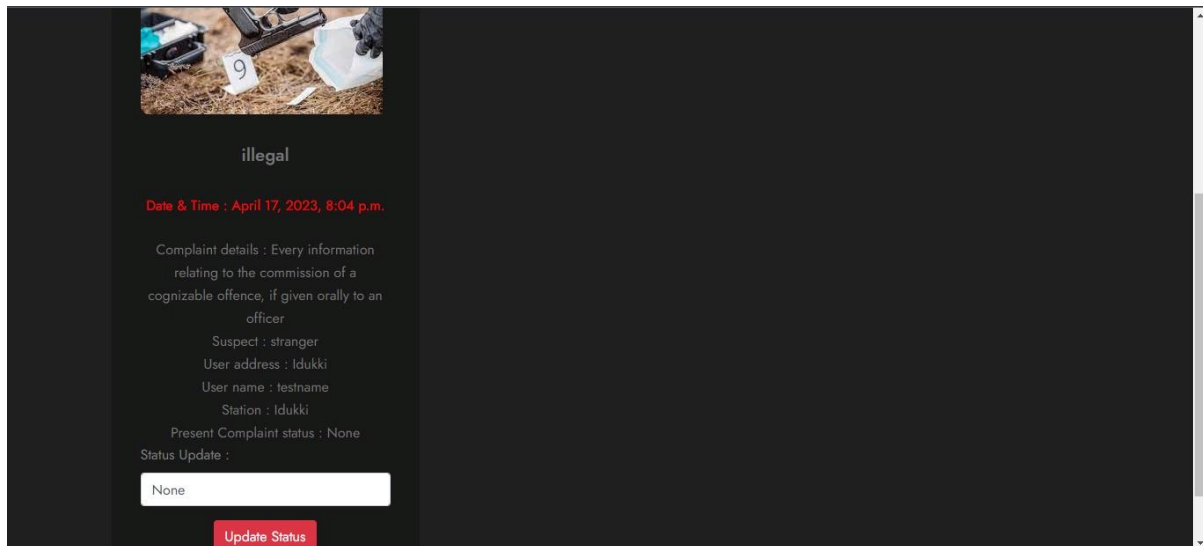


FIGURE 15: Update Complaint Status



illegal

Date & Time : April 17, 2023, 8:04 p.m.

Complaint details : Every information relating to the commission of a cognizable offence, if given orally to an officer

Suspect : stranger

User address : Idukki

User name : testname

Station : Idukki

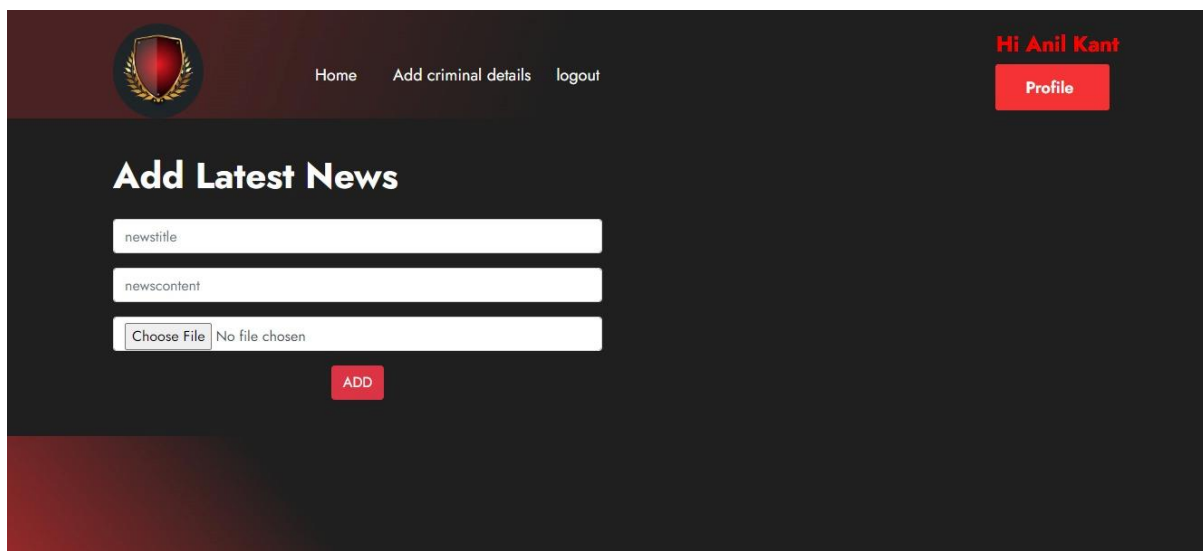
Present Complaint status : None

Status Update :

None

Update Status

FIGURE 15: Police add news



Home Add criminal details logout

Hi Anil Kant

Profile

Add Latest News

newstitle

newscontent

Choose File No file chosen

ADD