



**INSTITUTE FOR ADVANCED COMPUTING AND
SOFTWARE DEVELOPMENT, AKURDI, PUNE**

**Dial100.com
Crime Reporting Portal**

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Submitted By:
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ABSTRACT

The Dial-100 portal is an innovative web-based service designed to simplify the reporting and management of crime incidents, aiming to bolster public safety and strengthen community-law enforcement relations. This user-friendly platform allows individuals to effortlessly register, report crimes—either anonymously or with identification—and monitor the progress of their reports. By providing streamlined tools for case management, the portal enhances efficiency for law enforcement agencies.

Future enhancements will focus on optimizing the reporting process further and offering valuable insights to law enforcement for proactive crime prevention. The ultimate goal of Dial-100 is to create a comprehensive system that not only improves the efficiency and effectiveness of crime reporting but also fosters a closer connection between the community and those responsible for their safety.

ACKNOWLEDGEMENT

I take this occasion to thank God, almighty for blessing us with his grace and taking our endeavour to a successful culmination. I extend my sincere and heartfelt thanks to our esteemed guide, Mrs. Manjiri Deshpande for providing me with the right guidance and advice at the crucial juncture and for showing me the right way. I extend my sincere thanks to our respected Centre Co-Ordinator Mr. Rohit Puranik, for allowing us to use the facilities available. I would like to thank the other faculty members also, at this occasion. Last but not the least, I would like to thank my friends and family for the support and encouragement they have given me during the course of our work.

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1. INTRODUCTION

In today's digital age, effective communication and efficient management systems are critical in enhancing public safety and fostering strong community ties. The traditional methods of reporting and managing crime incidents often involve lengthy processes and can be challenging for both the public and law enforcement agencies. Recognizing these challenges, our Dial-100 portal emerges as a ground breaking solution designed to revolutionize crime reporting and case management.

Dial-100 is a user-friendly web service that simplifies the process of reporting crime incidents. The platform allows users to easily register, report incidents—either anonymously or with their identity—and track the status of their reports. This streamlined approach not only facilitates easier access for the public but also equips law enforcement authorities with powerful tools for efficient case management.

As technology continues to advance, Dial-100 stands ready to evolve alongside these changes. Future enhancements will focus on further optimizing the reporting process and providing law enforcement agencies with valuable insights to drive proactive crime prevention strategies. By bridging the gap between citizens and authorities, Dial-100 aims to enhance public safety and build stronger, more engaged communities.

2. SOFTWARE REQUIREMENT SPECIFICATION

2.1 Purpose

The purpose of this document is to provide a detailed specification of the features and functionalities of the Dial-100 portal. It outlines the requirements, system architecture, and user interactions to facilitate efficient crime reporting and management.

2.2 Scope

The Dial-100 portal is designed to manage crime incident reporting and tracking. It supports user registration, anonymous incident reporting, progress tracking, and provides case management tools for law enforcement authorities. Future enhancements will focus on optimizing the reporting process and offering insights for proactive crime prevention.

2.3 Objective of Project on Dial100.com :

The Dial-100 project is designed with clear objectives to enhance crime reporting and management. The primary goal is to provide a user-friendly platform that simplifies the reporting of crime incidents and allows users to track their progress from anywhere.

Key objectives include creating an intuitive interface for users and law enforcement, ensuring options for anonymous reporting, and offering robust case management tools. The system focuses on improving public safety, enhancing data accuracy and integrity, and fostering stronger connections between communities and law enforcement agencies.

By leveraging advanced technology and a forward-thinking approach, the project aims to create a reliable, transparent, and efficient platform that benefits all stakeholders involved in crime management.

2.4 Functionalities provided by Dial100.com are as follows:

The Dial-100 portal offers a range of functionalities designed to streamline crime reporting and management. Key functionalities include:

1. **User Registration and Authentication:** Users can create accounts and securely log in, with robust authentication mechanisms ensuring the protection of personal data.
2. **Incident Reporting:** Users can report crime incidents easily, with options for anonymous reporting if desired, ensuring privacy and accessibility.
3. **Progress Tracking:** The platform allows users to track the status of their reports in real time, providing updates on the investigation process.
4. **Case Management Tools:** Law enforcement authorities have access to efficient tools for managing and prioritizing cases, improving response times and coordination.
5. **Data Integrity:** The system maintains accurate and consistent data across the platform, reducing errors and ensuring reliable information.
6. **Future Enhancements:** Plans to further streamline the reporting process and provide actionable insights for proactive crime prevention.

In summary, the Dial-100 portal combines user-friendly features and advanced tools to enhance the crime reporting process, improve public safety, and strengthen community-law enforcement connections.

Functional Requirements

FR 1. User Registration and Authentication:

- Users can register by providing necessary details.
- User authentication is required to access the system.

FR 2. Crime Reporting Application:

- Plaintiff can easily register complaint and check for the updates.
- Authority can Investigate the complaint and provide the updates.

FR 3. Plaintiff and Authority Profiles:

- Both users can view and update their profiles.
- User profiles store personal information, contact details.

FR 4. Error Handling and Reporting:

- The system handles errors gracefully and provides appropriate error messages.

Non-Functional Requirements:**NFR 1. Security:**

- User passwords are securely stored using encryption techniques.
- Access controls ensure that users can only access authorized features.

NFR 2. Performance:

- The system should handle a large number of simultaneous users without significant slowdowns.
- Image loading and retrieval should be efficient for a smooth user experience.

NFR 3. Scalability:

- The system should be designed to accommodate future growth and increased user activity.

NFR 4. Usability:

- The user interface should be intuitive and user-friendly for both Plaintiff and Authority.
- Clear and concise error messages should guide users through any issues.

NFR 5. Reliability:

- The system should be available and operational 24/7 with minimal downtime.

NFR 6. Data Integrity:

- Data integrity and consistency are maintained through proper validation and database design.

NFR 7. Data Privacy:

- User data, especially personal and sensitive information, should be stored securely.

3. SOFTWARE AND HARDWARE REQUIREMENTS:

Hardware and Network Interfaces:

Back-end Server Configuration:

- Intel Pentium-IV Processor
- 128 MB RAM

Front-end Client Configuration:

- Intel Pentium-III @ 650 MHz Processor
- 128 MB SDRAM
- 10 GB Hard Disk Drive
- 104 Keys Keyboard
- PS2 Mouse with pad

Software Interfaces:

Software configuration for back-end Services:

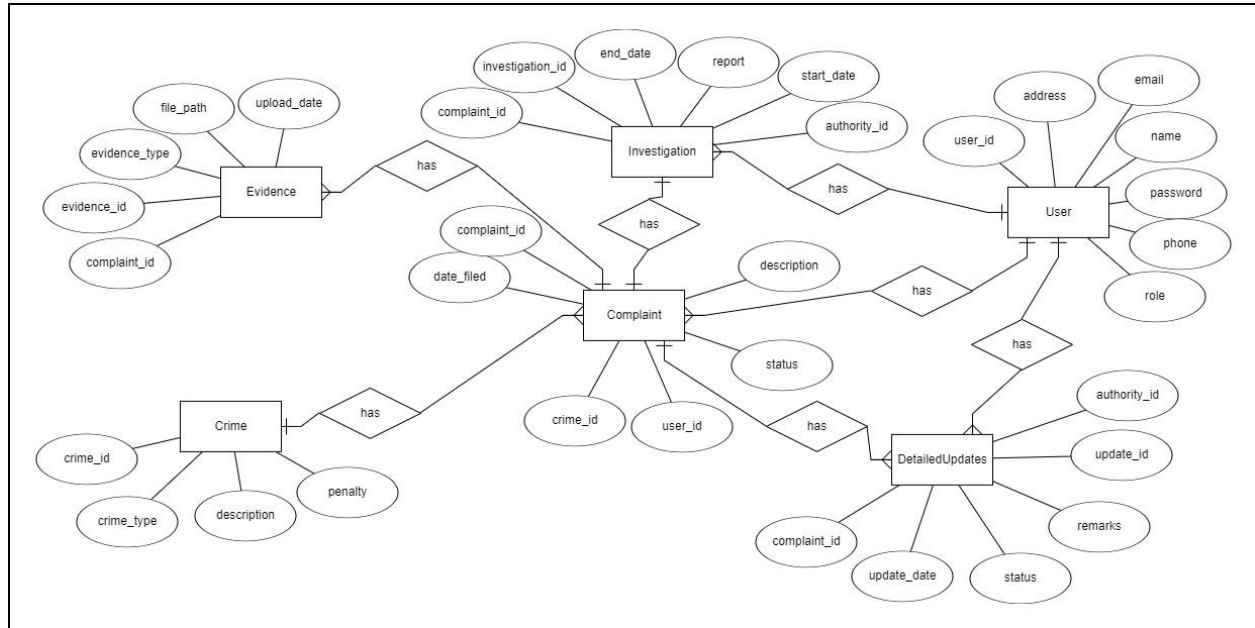
- Java EE
- Spring Boot, JPA
- MySQL
- STS 3.9.18

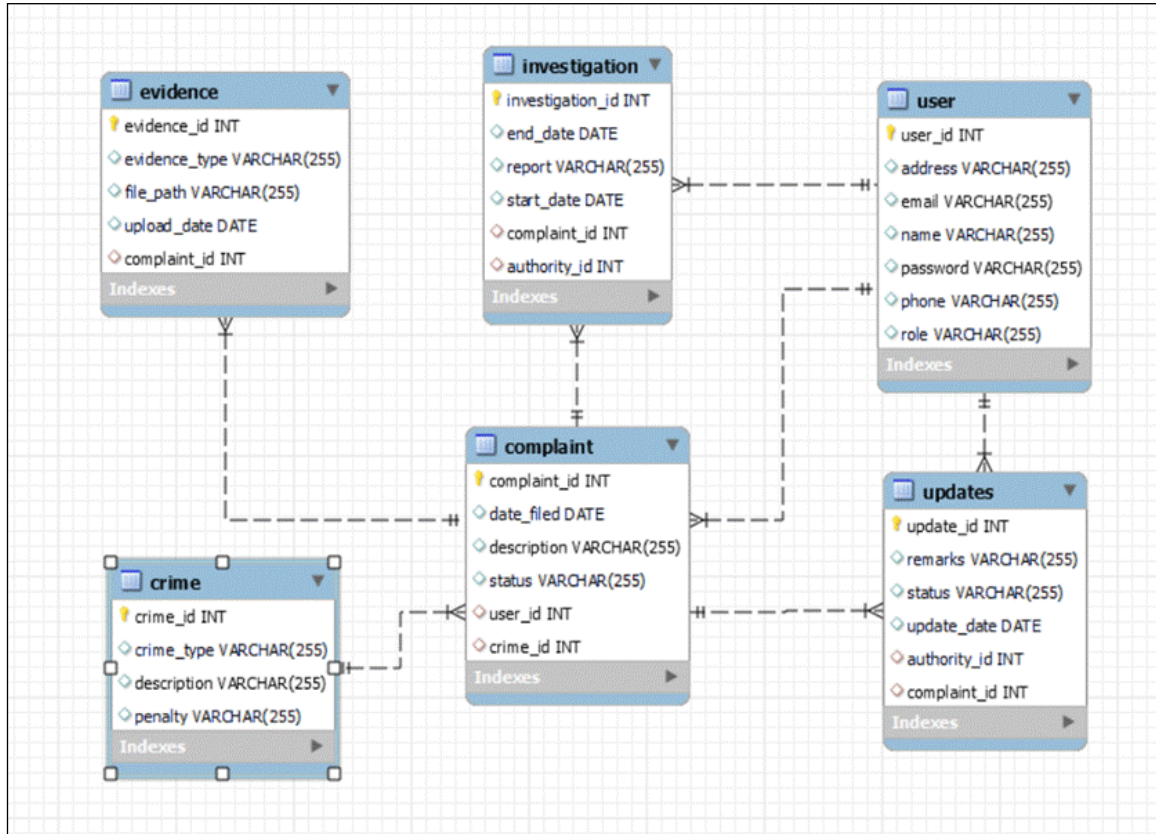
Software configuration for front-end Services:

- ReactJS
- HTML, CSS, JS
- Bootstrap
- VS Code

4. DIAGRAMS

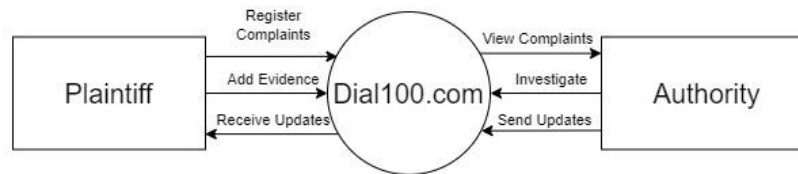
4.1 ER DIAGRAM:



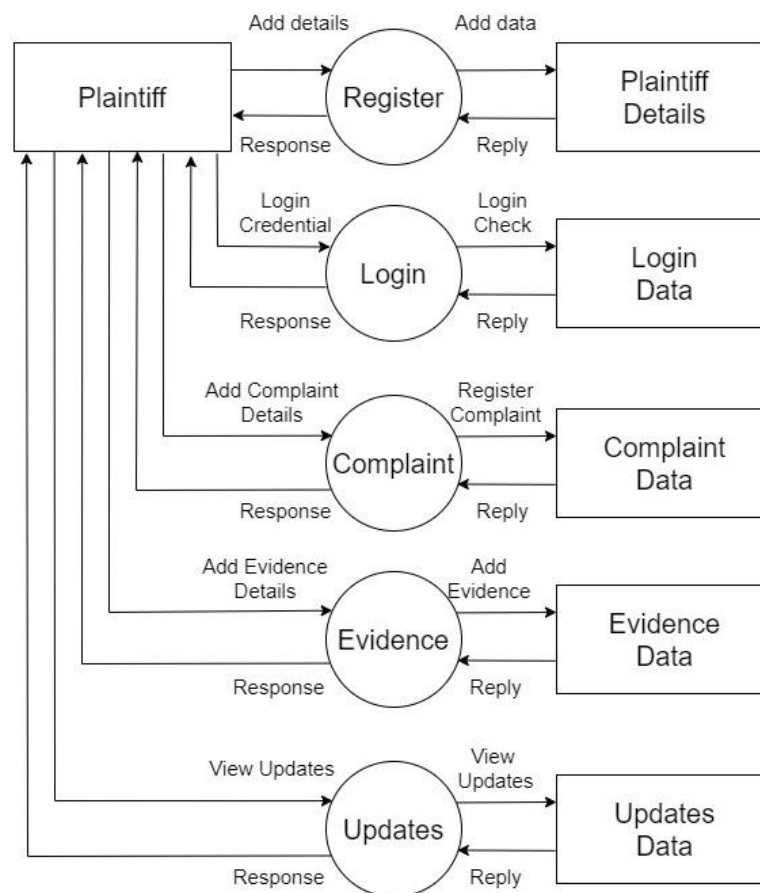
ER DIAGRAM:

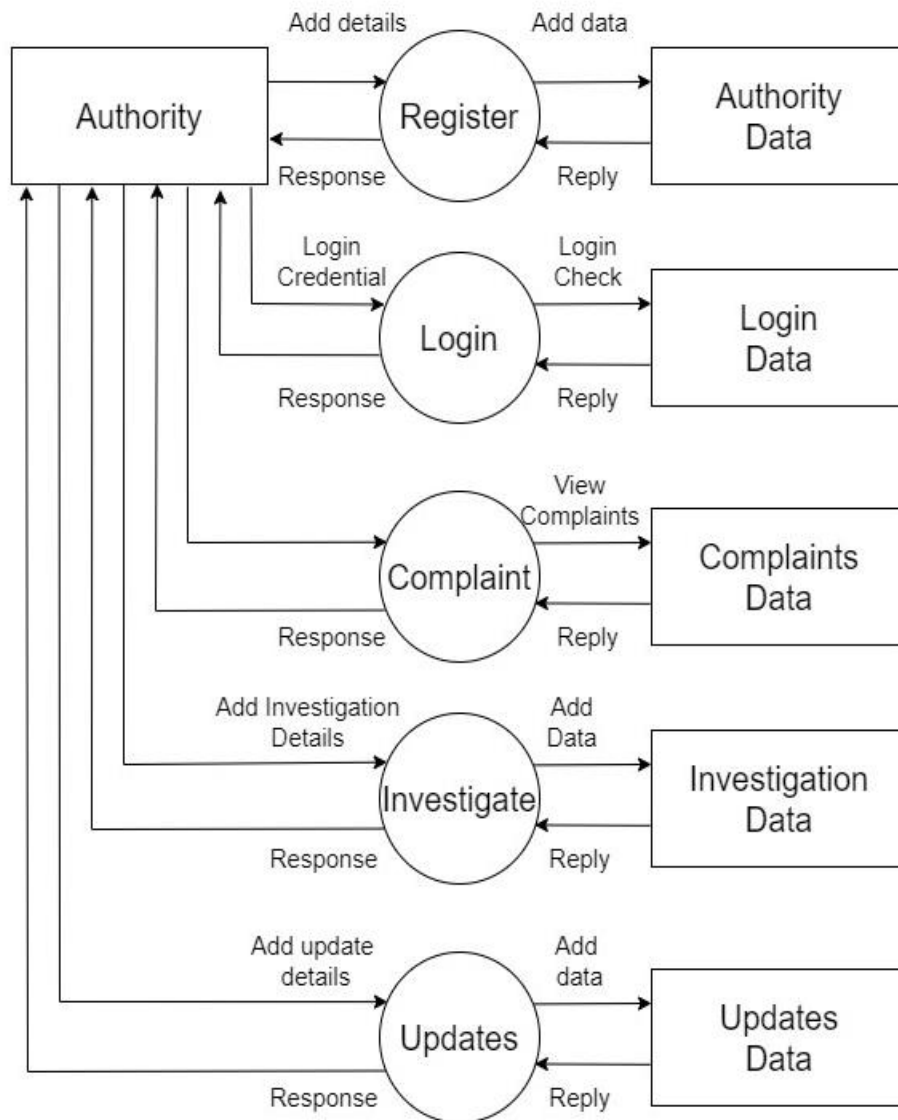
4.2 DATA FLOW DIAGRAM:

Level 0:



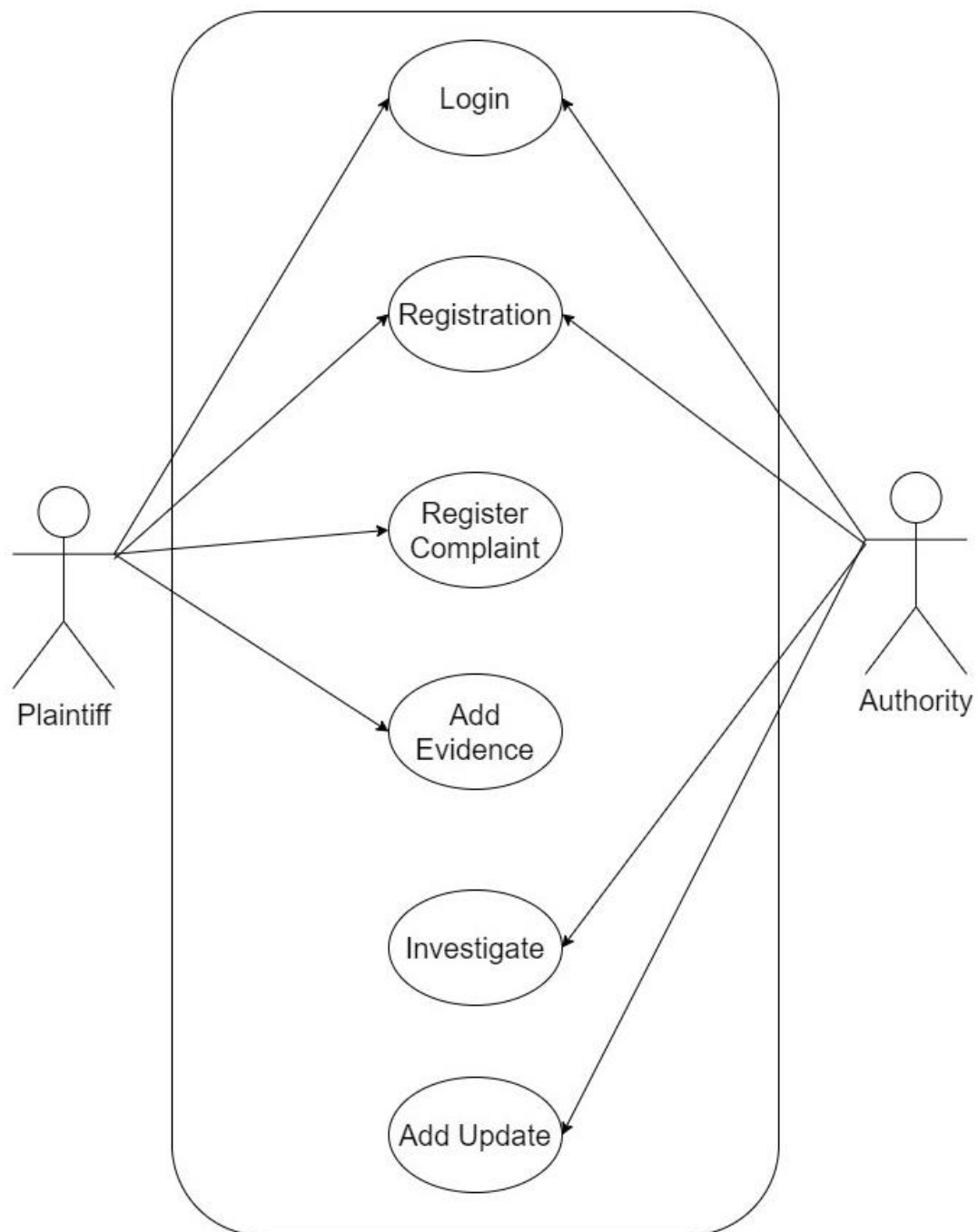
Plaintiff side DFD Level 1:



Authority side DFD Level 1:

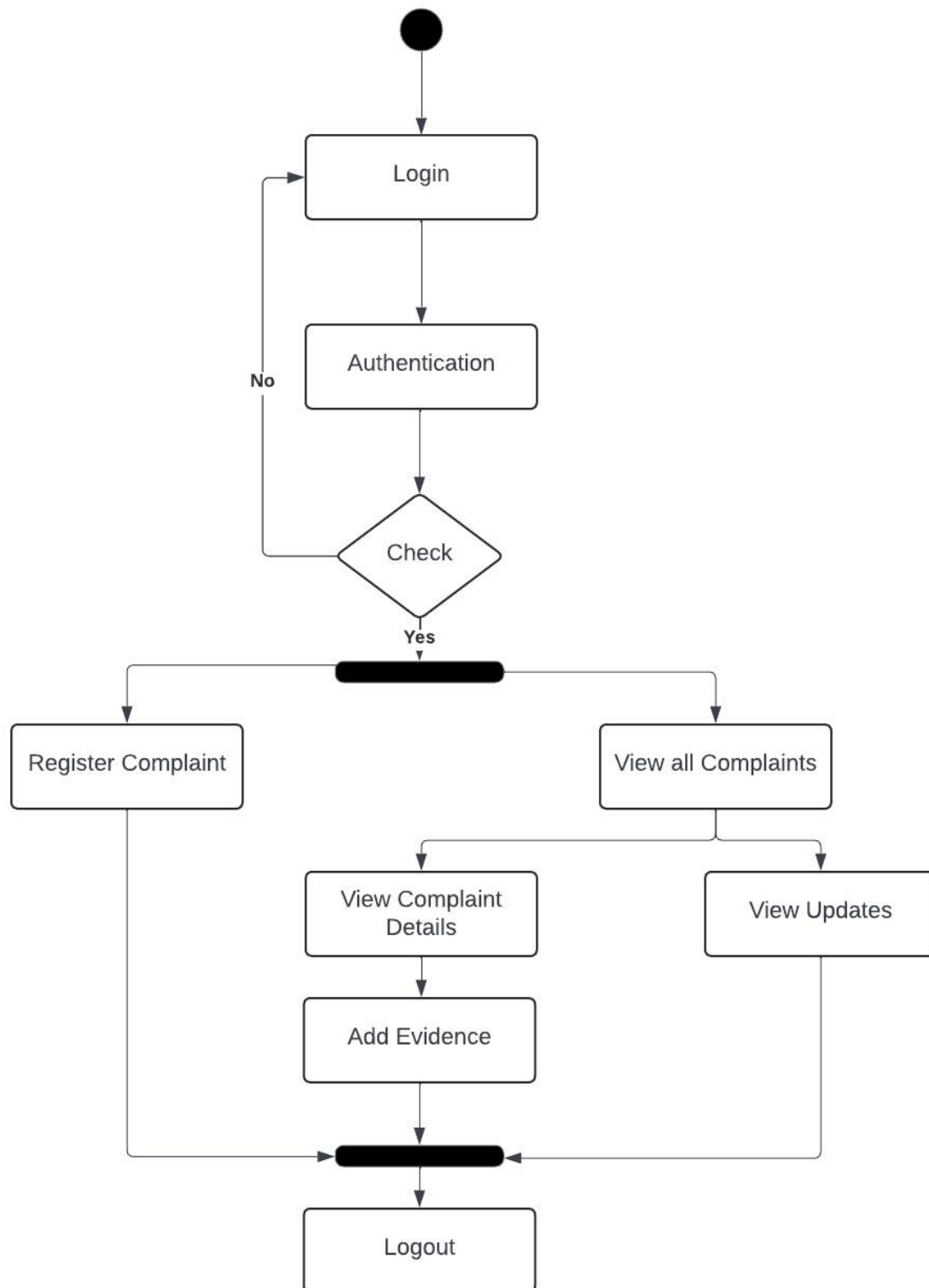
5. UML DIAGRAM:

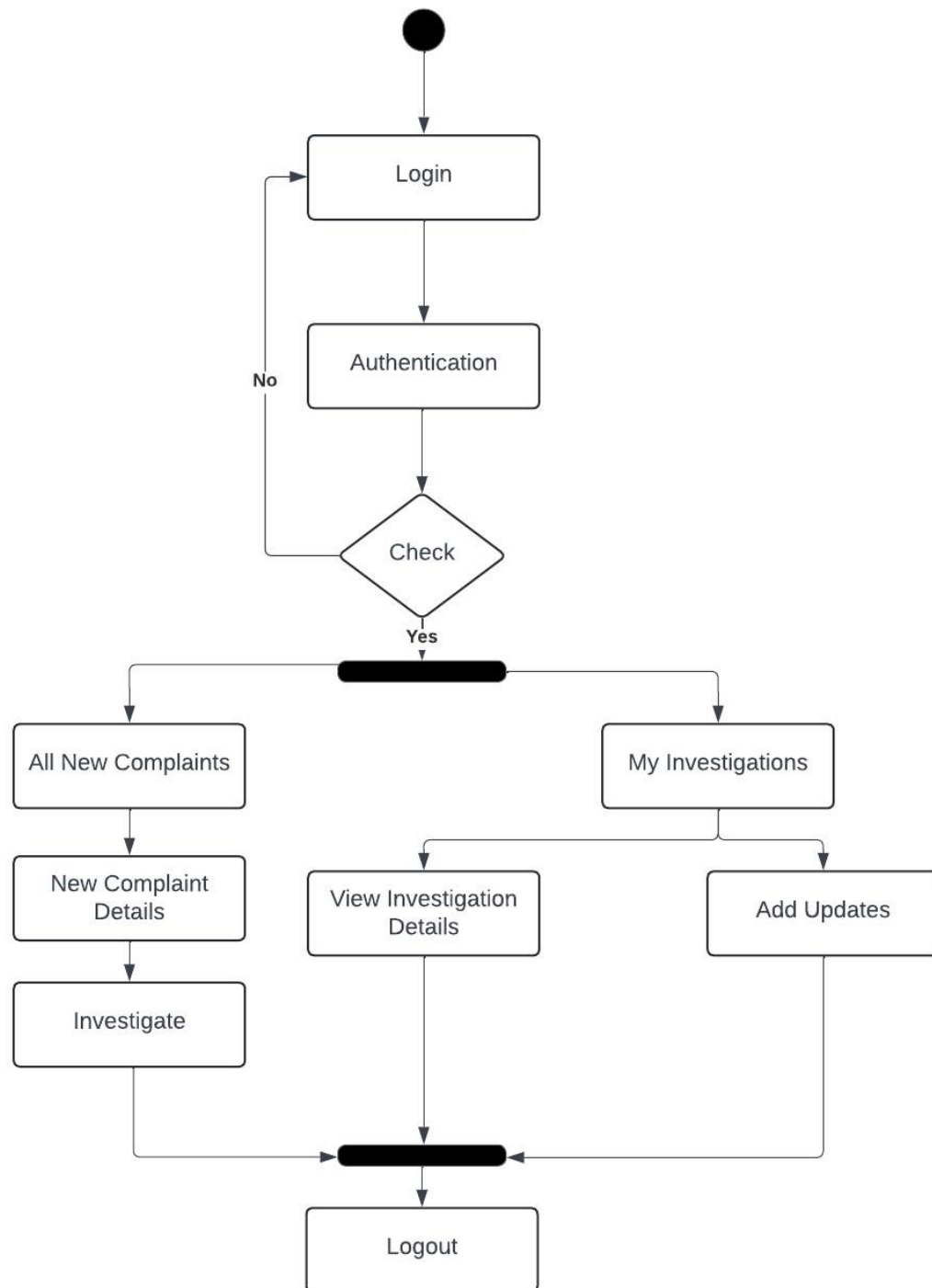
5.1 USE CASE DIAGRAM:



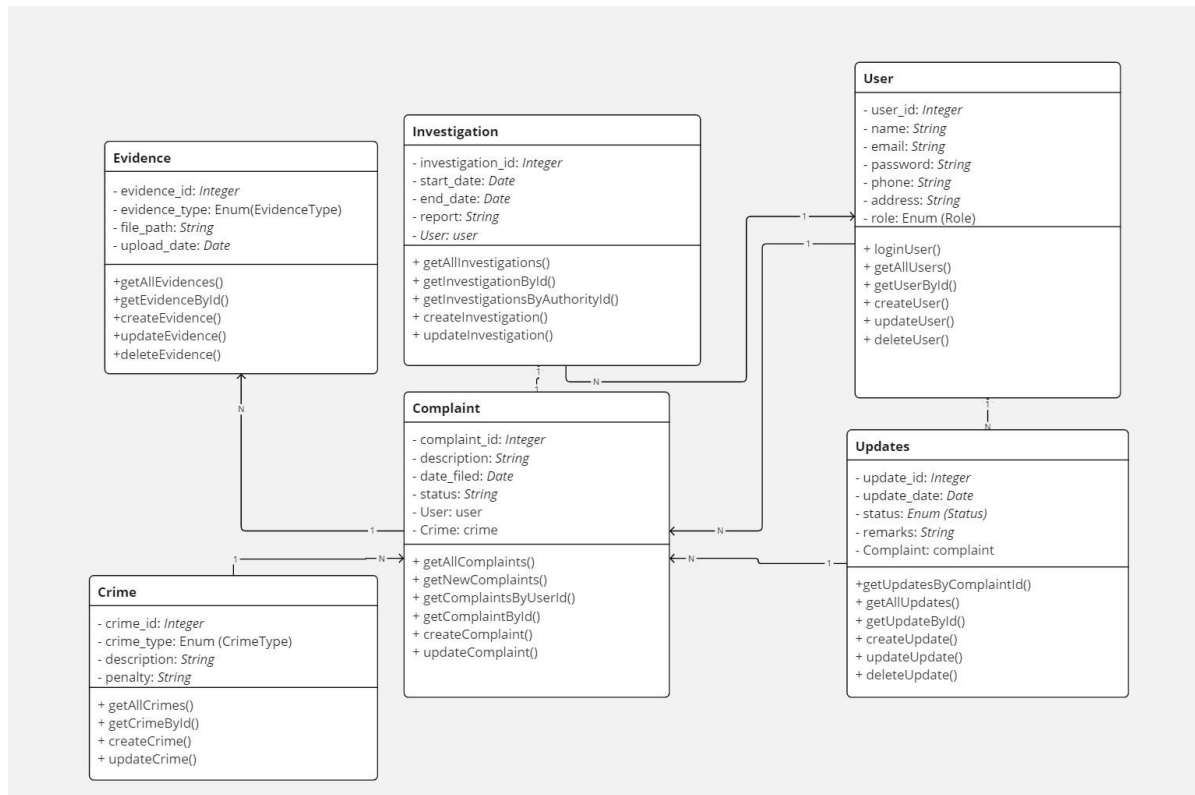
5.2 ACTIVITY DIAGRAM

Plaintiff Activity Diagram:

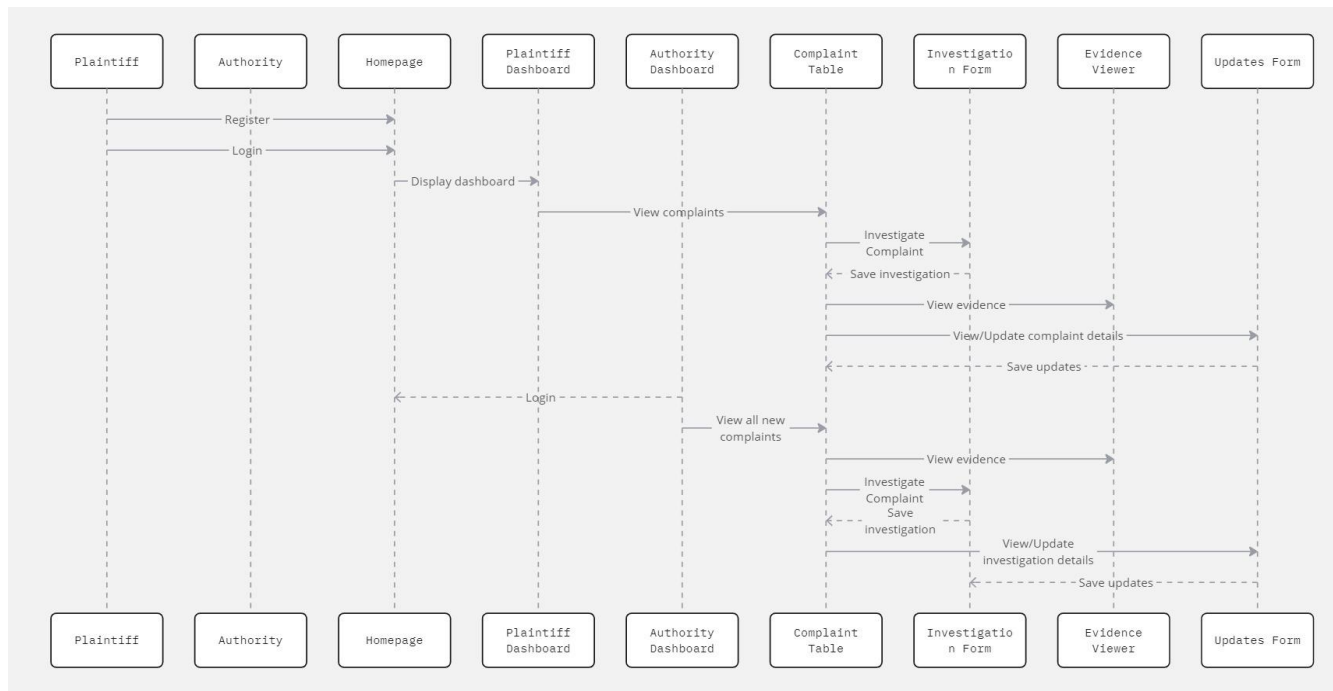


Authority Activity Diagram:

5.3 CLASS DIAGRAM



5.4 SEQUENCE DIAGRAM:



6. TABLE STRUCTURE

Database Design

The following table structures depict the database design.

Table 1: user:

```
mysql> desc user;
```

Field	Type	Null	Key	Default	Extra
user_id	int	NO	PRI	NULL	auto_increment
address	varchar(255)	YES		NULL	
email	varchar(255)	YES		NULL	
name	varchar(255)	YES		NULL	
password	varchar(255)	YES		NULL	
phone	varchar(255)	YES		NULL	
role	varchar(255)	YES		NULL	

7 rows in set (0.01 sec)

Table 2: complaint:

```
mysql> desc complaint;
```

Field	Type	Null	Key	Default	Extra
complaint_id	int	NO	PRI	NULL	auto_increment
date_filed	date	YES		NULL	
description	varchar(255)	YES		NULL	
status	varchar(255)	YES		NULL	
user_id	int	YES	MUL	NULL	
crime_id	int	YES	MUL	NULL	

6 rows in set (0.00 sec)

Table 3: crime:

```
mysql> desc crime;
```

Field	Type	Null	Key	Default	Extra
crime_id	int	NO	PRI	NULL	auto_increment
crime_type	varchar(255)	YES		NULL	
description	varchar(255)	YES		NULL	
penalty	varchar(255)	YES		NULL	

4 rows in set (0.00 sec)

Table 4: evidence:

```
mysql> desc evidence;
```

Field	Type	Null	Key	Default	Extra
evidence_id	int	NO	PRI	NULL	auto_increment
evidence_type	varchar(255)	YES		NULL	
file_path	varchar(255)	YES		NULL	
upload_date	date	YES		NULL	
complaint_id	int	YES	MUL	NULL	

5 rows in set (0.00 sec)

Table 5: investigaton:

```
mysql> desc investigation;
```

Field	Type	Null	Key	Default	Extra
investigation_id	int	NO	PRI	NULL	auto_increment
end_date	date	YES		NULL	
report	varchar(255)	YES		NULL	
start_date	date	YES		NULL	
complaint_id	int	YES	UNI	NULL	
authority_id	int	YES	MUL	NULL	

6 rows in set (0.01 sec)

Table 6: updates:

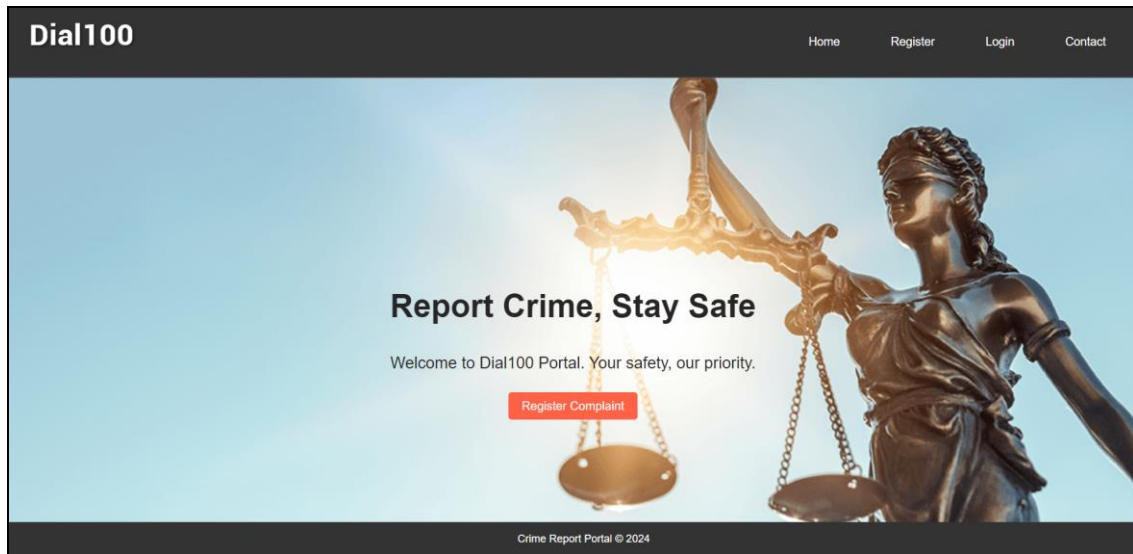
```
mysql> desc updates;
```

Field	Type	Null	Key	Default	Extra
update_id	int	NO	PRI	NULL	auto_increment
remarks	varchar(255)	YES		NULL	
status	varchar(255)	YES		NULL	
update_date	date	YES		NULL	
authority_id	int	YES	MUL	NULL	
complaint_id	int	YES	MUL	NULL	

6 rows in set (0.00 sec)

7. SNAPSHOTS

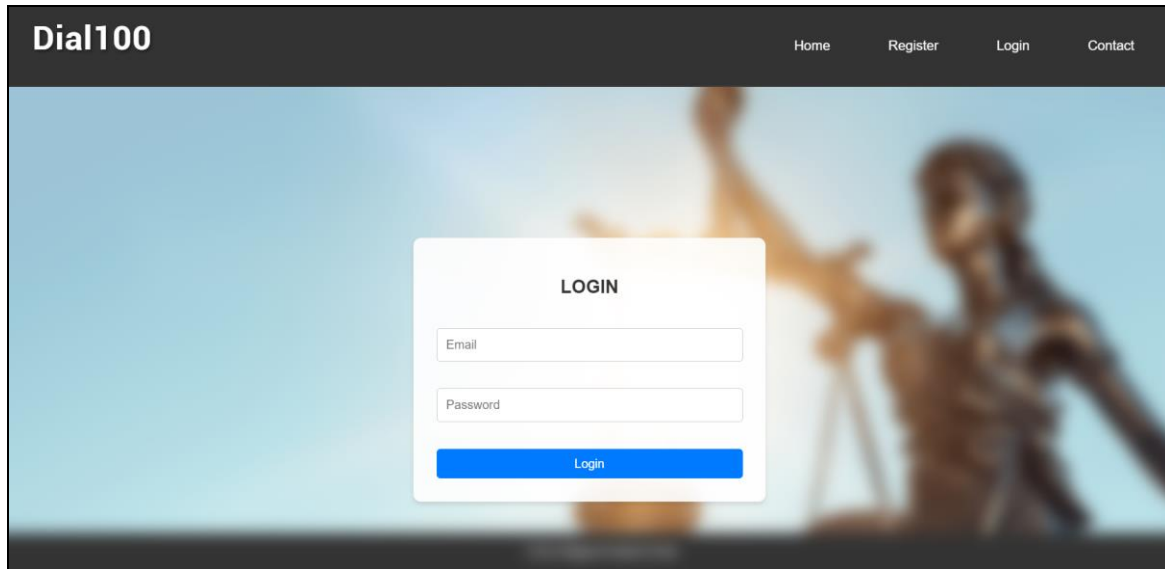
1. Home Page:



2. Registration Page:

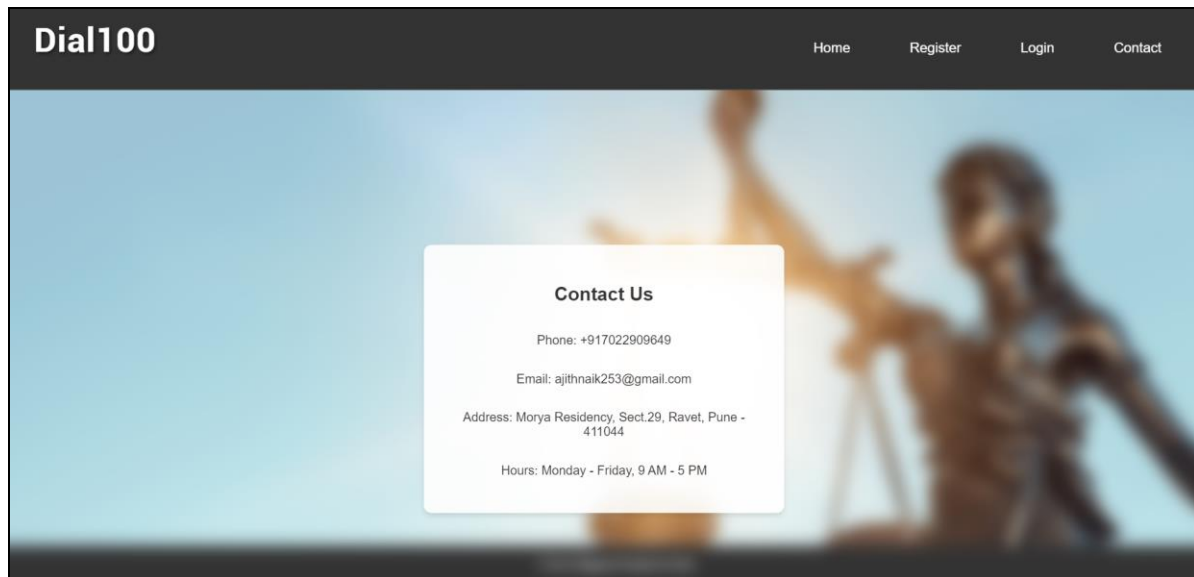
The screenshot shows the Dial100 Registration Page. The header is dark with the 'Dial100' logo on the left and navigation links 'Home', 'Register', 'Login', and 'Contact' on the right. The main content area features a large image of a golden statue of Lady Justice holding scales. Overlaid on this image is a white registration form titled 'REGISTRATION'. The form contains the following fields: 'Name' (text input), 'Plaintiff' (dropdown menu), 'Email' (text input), 'Phone' (text input), 'Address' (text input), 'Password' (text input), and 'Confirm Password' (text input). A blue button labeled 'Register' is located at the bottom of the form.

3. Login Page:



The screenshot shows the Dial100 website's login page. At the top, a dark navigation bar contains the 'Dial100' logo on the left and links for 'Home', 'Register', 'Login', and 'Contact' on the right. The main content area features a blurred background image of a person. Centered on the page is a white login form with the title 'LOGIN' in bold. The form includes two input fields: 'Email' and 'Password', each with a small eye icon for toggling visibility. Below these fields is a blue 'Login' button.

4. Contact Page:



The screenshot shows the Dial100 website's contact page. It has the same dark navigation bar as the login page, with the 'Dial100' logo and links for 'Home', 'Register', 'Login', and 'Contact'. The background is a blurred image of a person. Centered on the page is a white contact form titled 'Contact Us' in bold. The form displays the following contact information: 'Phone: +917022909649', 'Email: ajithnaik253@gmail.com', 'Address: Morya Residency, Sect.29, Ravet, Pune - 411044', and 'Hours: Monday - Friday, 9 AM - 5 PM'.

5. Plaintiff Dashboard Page:

The screenshot shows the Plaintiff Dashboard page. On the left is a sidebar with the 'Dial100' logo, a search bar, and links for 'Register Complaint' and 'View Complaints'. The main content area is titled 'Plaintiff Dashboard' and contains a welcome message: 'Welcome to the Plaintiff Dashboard. Here you can register complaints and view their status.' At the top right of the main area are 'Your Profile' and 'Logout' buttons. The footer of the page reads 'Crime Report Portal © 2024'.

6. Register complaint page:

The screenshot shows the Register Complaint page. It features a sidebar on the left with the 'Dial100' logo, a search bar, and links for 'Register Complaint' and 'View Complaints'. The main content area is titled 'Register Complaint' and contains a form with the following fields: 'Date Filed' (with a date picker), 'Description' (a text area), 'Status' (a dropdown menu), 'Crime ID' (a dropdown menu), 'Crime Type' (a text field), 'Crime Description' (a text area), and 'Penalty' (a text field). Below the form is a blue button labeled 'Submit Complaint'. The footer of the page reads 'Crime Report Portal © 2024'.

7. View Complaints Page:

Dial100

Register Complaint
View Complaints

[Your Profile](#) [Logout](#)

All Complaints

Complaint ID	Details	Updates
1	View	View
2	View	View

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8. Plaintiff Complaint Details Page:

Dial100

Register Complaint
View Complaints

[Your Profile](#) [Logout](#)

Complaint ID 1 Details:

Date Filed: 2024-08-19

Description: My bike is stolen last night. I have parked it outside the coffee shop.

Status: new

Crime ID: 2

Crime Type: PROPERTY

Crime Description: Property crimes affect personal property through theft, burglary, or vandalism. Theft involves stealing, burglary means breaking into buildings, and vandalism is damaging property.

Penalty: Penalties vary: theft can result in up to 3 years in prison; burglary may lead to up to 14 years; vandalism incurs fines and imprisonment based on damage severity.

[Add Evidence](#)

Crime Report Portal © 2024

9. Add Evidence Page:

The screenshot shows the 'Add Evidence for Complaint ID 1' page. The interface includes a sidebar with 'Dial100' and links for 'Register Complaint' and 'View Complaints'. A search bar is at the top. The main content area has a title 'Add Evidence for Complaint ID 1' and three input fields: 'Evidence Type' (a dropdown menu), 'File Path' (a text input), and 'Upload Date' (a date picker showing 'dd-mm-yyyy'). A green 'Submit Evidence' button is at the bottom. The footer reads 'Crime Report Portal © 2024'.

Dial100

Search here...

Register Complaint
View Complaints

Add Evidence for Complaint ID 1

Evidence Type:
Select Evidence Type

File Path:

Upload Date:
dd-mm-yyyy

Submit Evidence

Crime Report Portal © 2024

10. Plaintiff Updates Detail Page:

The screenshot shows the 'Complaints Updates' page. The interface is similar to the previous one, with a sidebar and a search bar. The main content area is titled 'Complaints Updates' and displays two update entries. Each entry shows the 'Update ID', 'Status', 'Remarks', and 'Update Date'. The footer reads 'Crime Report Portal © 2024'.

Dial100

Search here...

Register Complaint
View Complaints

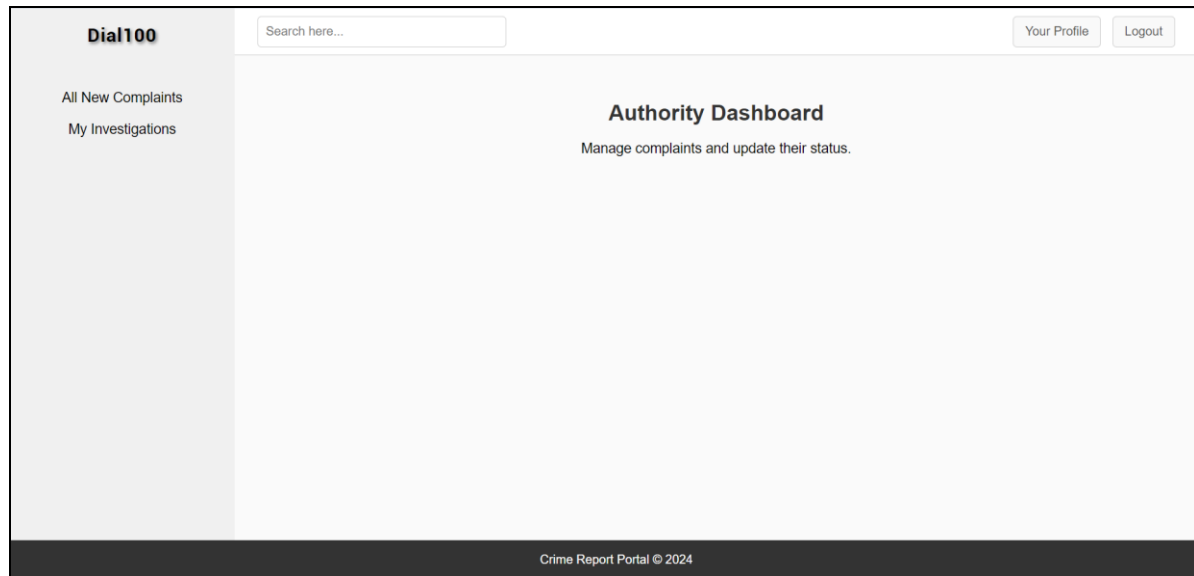
Complaints Updates

Update ID: 1
Status: OPEN
Remarks: Reviewed the complaint Report.
Update Date: 8/20/2024

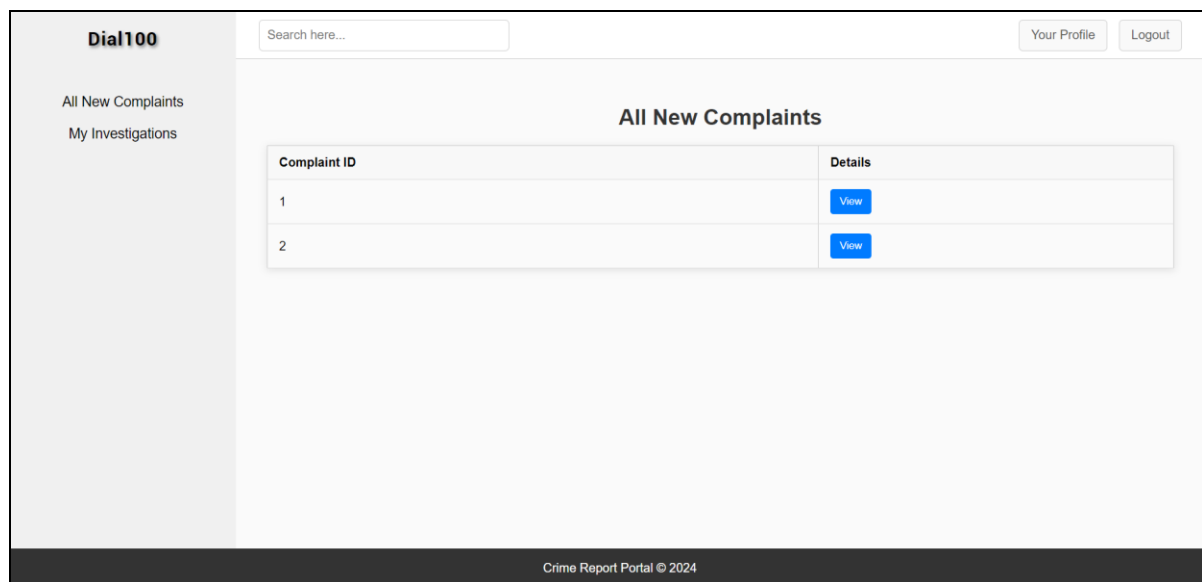
Update ID: 2
Status: INPROGRESS
Remarks: Checked the CCTV camera of the coffee shop.
Update Date: 8/21/2024

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11. Authority Dashboard Page:



12. All New Complaints Page:



13. Authority Complaint Details Page:

Dial100

Search here...

Your ProfileLogout

All New Complaints
My Investigations

Complaint ID 1 Details:

Date Filed: 2024-08-19

Description: My bike is stolen last night. I have parked it outside the coffee shop.

Status: new

Crime ID: 2

Crime Type: PROPERTY

Crime Description: Property crimes affect personal property through theft, burglary, or vandalism. Theft involves stealing, burglary means breaking into buildings, and vandalism is damaging property.

Penalty: Penalties vary; theft can result in up to 3 years in prison; burglary may lead to up to 14 years; vandalism incurs fines and imprisonment based on damage severity.

Investigate

Crime Report Portal © 2024

14. Investigate Form Page:

Dial100

Search here...

Your ProfileLogout

All New Complaints
My Investigations

Add Investigation Details

Start Date:

dd-mm-yyyy

End Date:

dd-mm-yyyy

Report:

Enter report details

Add Investigation

Crime Report Portal © 2024

15. My Investigations Page:

Dial100

Search here...

Your Profile Logout

All New Complaints
My Investigations

All Investigations:

Investigation ID	Details	Updates
1	View	Add
2	View	Add

Crime Report Portal © 2024

16. Investigation Details Page:

Dial100

Search here...

Your Profile Logout

All New Complaints
My Investigations

Investigation Details

Complaint ID: 1
Start Date: 2024-08-19
End Date: 2024-08-31
Report: Will be investigation based on the complaint registered.
[View Evidences](#)

Update ID 1 :
Status: OPEN
Remarks: Reviewed the complaint Report.
Update Date: 2024-08-20

Update ID 2 :
Status: INPROGRESS
Remarks: Checked the CCTV camera of the coffee shop.
Update Date: 2024-08-21

Crime Report Portal © 2024

17. View Evidences Page:

The screenshot shows the 'View Evidences Page' in the Dial100 system. The page has a header with the 'Dial100' logo, a search bar, and links for 'Your Profile' and 'Logout'. A sidebar on the left contains 'All New Complaints' and 'My Investigations'. The main content area is titled 'Complaint ID - 1 - Evidences' and displays two evidence items:

- Evidence ID: 1**
Evidence Type: DIGITAL
File Path: https://docs.google.com/document/d/1Ga8uMrcC95OnXJnSWN_ouHTHo5536sXP99DCVWyDhYk/edit
Upload Date: 8/20/2024
- Evidence ID: 2**
Evidence Type: FORENSIC
File Path: <https://www.nist.gov/forensic-science>
Upload Date: 8/21/2024

The footer of the page reads 'Crime Report Portal © 2024'.

18. Add Updates Form Page:

The screenshot shows the 'Add Updates Form Page' in the Dial100 system. The page has a header with the 'Dial100' logo, a search bar, and links for 'Your Profile' and 'Logout'. A sidebar on the left contains 'All Complaints' and 'My Investigations'. The main content area is titled 'Add Update Details:' and contains the following form fields:

- Status:** A dropdown menu with 'OPEN' selected.
- Remarks:** A text input field with the placeholder 'Enter your remark'.
- Update Date:** A date input field with the placeholder 'dd - mm - yyyy' and a calendar icon.

A blue button labeled 'Add update' is located at the bottom of the form. The footer of the page reads 'Crime Report Portal © 2024'.

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8. REFERENCES

[http://www.javatpoint.com/java-](http://www.javatpoint.com/java-tutorial)

tutorial <http://www.w3.org>

<http://www.wikipedia.org>

<https://www.tutorialspoint.com/java>

9. CONCLUSION

The Dial100.com Crime Report Portal effectively establishes a streamlined, user-friendly, and transparent platform that enables citizens to report crimes and actively interact with law enforcement agencies. By harnessing the power of technology, the portal significantly enhances the speed and efficiency of emergency responses, strengthens community safety measures, and builds trust between the public and law enforcement. This innovative solution not only simplifies the crime reporting process but also ensures that citizens are kept informed throughout the investigation, fostering a more engaged and secure community.

9.1. FUTURE SCOPE

The future scope of the Dial100 project includes several key enhancements. One of the primary goals is the development of a mobile app to facilitate easier and faster crime reporting. Additionally, the platform aims to include multilingual support to better serve a diverse population. Plans for integration with social media platforms will allow for the quick dissemination of alerts and updates, ensuring broader awareness. Enhanced security features, such as improved encryption and data protection, will further safeguard user privacy and system integrity. Finally, ongoing public awareness campaigns will be implemented to educate citizens about the platform and encourage its widespread use.