

A Mini Project Synopsis on
E-Crime Reporting System
S.E. - I.T Engineering

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CERTIFICATE

This to certify that the Mini Project report on e-Crime Reporting System has been submitted by Pranil Patil(20104121), Akash Patil (20104075) ,Sahil Shetty (20104122) and Sushant Waghmare(20104113)who are a Bonafede students of A. P. Shah Institute of Technology, Thane, Mumbai, as a partial fulfilment of the requirement for the degree in **Information Technology**, during the academic year **2021-2022** in the satisfactory manner as per the curriculum laid down by University of Mumbai.

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Chapter 1

Introduction

Cybercrime is an ever-increasing part of the criminal activities in human life. As more people are using internet, cybercrime or e-crimes have grown exponentially in recent times. Sometimes, the victim may feel that reporting cybercrimes to the police station is a lengthy process and may hesitate to lodge a complaint. E-crime reporting system helps the victim communicate with the authorities smoothly and without any lapse in communication. In our app, the user has to fill in their details and simply lodge a complaint in the report panel which is then verified by the police. The cost of travel and paperwork becomes extinct.

1.1 Purpose:

The purpose of our application is to help the user to lodge a complaint regarding cybercrime and the authority to access the complaints and verify it and take further actions. Our objective is to save time and paperwork and make the process easy and efficient. The application is user friendly for all users. Our application helps the user to report without the need of travelling. Every single user and case is stored in the database and can be viewed anytime by the authority. The simple UI helps even the elderly to report the case. The Aadhaar card functionality can be used to verify if the user is a real person and not a bot thus reducing spam accounts.

1.2 Scope:

Our application is useful in many aspects. The application is designed to be so simple it can be used by anyone. The application is useful in the following ways:

- 1.Users: They can simply add their complaint from the user panel.
- 2.Officer: The officer or higher authority can simply track the complaints from the database and can then either approve/reject after verifying the authenticity of the complaint.
- 3.Authority: If a case is ignored or not seen by the officer for at least 7 days, it is then moved to the authority who can view the pending case and then further investigate.

Chapter 2

Problem Definition

In today's time, there has been a significant increase in cyber-crimes, as the technology gets better, the criminals have started using the mode of internet to exploit people. As a result, it is more than necessary to report even the smallest cyber-crimes to the authorities. It has been found by a survey that 60% of victims don't report these crimes to the police as they are not taken seriously. This, we have made an application that helps the victims to report even the smallest crimes to police without the need to travelling, this helps not only the victims but also the society in eradicating the cyber - crimes. The biggest feature of this application is that even the smallest of the small crimes are taken in investigation and if ignored by the police, it is reported to the higher authority where the case simply cannot be ignored. If there is no action taken by the police or if they ignore the case then after 7 days of interval the case which are not taken into consideration will be transferred to the higher authorities and then authorities can take the investigation of that particular case further so that the victim wouldn't have to suffer for the crime that has happened with him. Authorities as well as police can have the information of user in their respective panels. The credentials of the users are only known to the authority so as to avoid fake accounts and thus making it easier to distinguish between a real case and a fake one.

Chapter 3

The aim of proposed system is to help the user add and view their complaint as well as allowing the officer to approve/reject it.

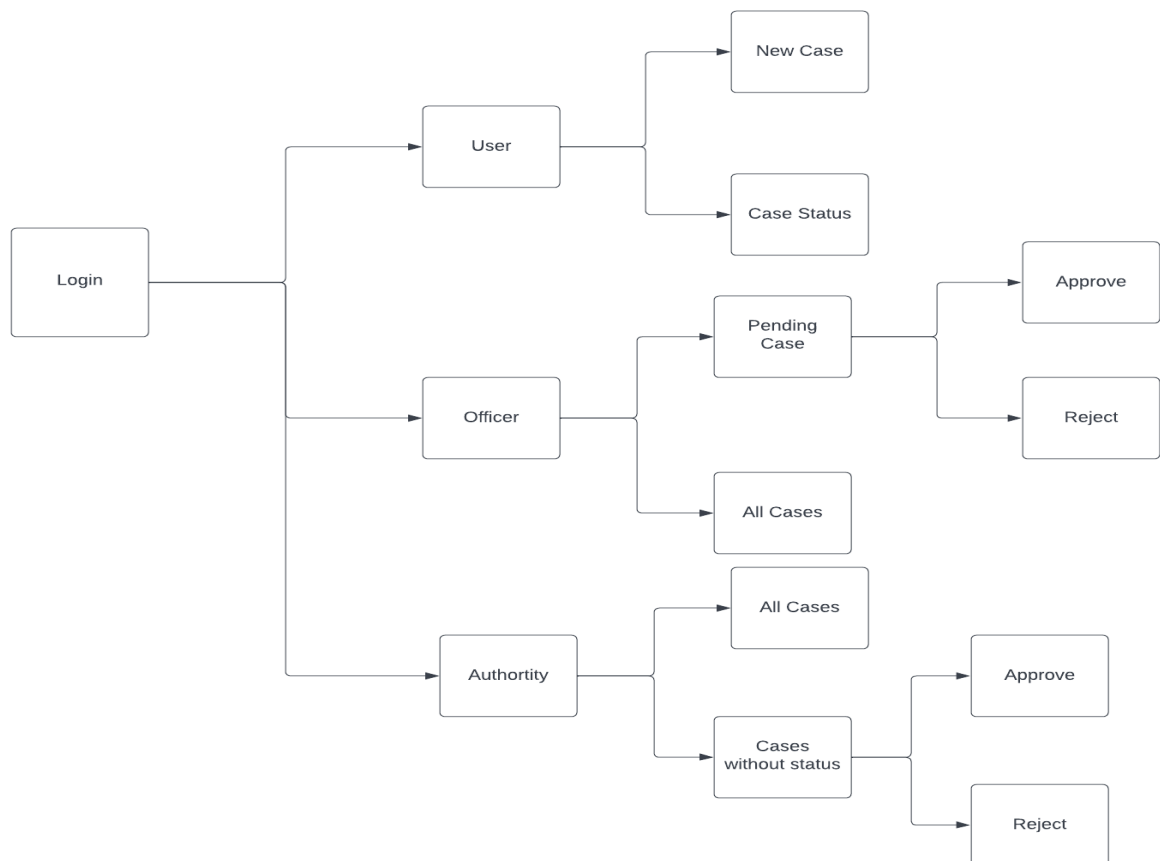


Figure 3.1 ER Diagram

Entities in the above diagram:

- User
- Officer
- Authority

The above diagram shows that both the users and officer have to log in to browse through their respective panels. Before logging in, user has to first register with their Aadhaar card and mobile number which is then validated. The user then has to create new username and password. After the user logs in, he/she can report their respective cases from the new case panel. User can later view the status of the case from view cases panel. The officer can see all the pending cases from pending case section where he can approve/reject the case, the all cases panel views every single cases ever added by all the users combined. Finally, in the authority panel, the authority after logging in, can see all cases, all users and a non-action panel is used to check every single pending case that has been in the database for more than a week. In this, the authority can even approve/reject the case. The status of cases can then be checked from case status in user panel, pending cases from officer panel and non-action cases from authority panel. If a fake complaint is created, officer and authority can investigate on that user and then after concluding they can delete the case from the panel. This adds extra security and helps in quick investigation. Authority entity using the application can add admin functionality to the application. The functionality would allow administrator to approve or reject the organized goal from the system.

3.1 Features and Functionality:

- Registration is quite simple, user has to using e-mail ID, name, Aadhaar card, address, phone number, username and password.
- User has to simply put his/her Aadhaar details and full name and rest of the details are automatically generated.
- The above feature adds extra security.
- User can add their type of crime & details about it.
- The user portal contains File two panels: new case and All cases.
- New case allows them to lodge a complaint whereas All cases is used to check the status.
- In Data management admin can sort all their complaints and approve or reject them.

Chapter 4

Project Outcome:

- User has to register for the first time to manage.
- User has to add adhaar card number and mobile number for verification
- User then can login after registration at any time of his/her choice.
- User can add complaint.
- User can change their password.
- User can also view complaints.
- Authorities using the application can add admin functionality to the application.
- The functionality would allow administrator to approve or reject the organized goal from the system.
- Authority can view all the non-action cases so none of the cases fall to deaf ears.
- Institute can track the complaint of user from different area and can store them in database. It has simple user friendly ui to done all works easily. Lastly, logout option is available for user to exit

Chapter 5

Software Requirements:

- Programming language: Python
- Operating System: Windows 11
- Development Environment: Visual Studio
- Database: MySQL (PHPMYADMIN)

Chapter 6

Project Design:

In this phase, a logical system is built which fulfils the given requirements. Design phase of software development deals with transforming the client's requirements into a logically working system. Normally, design is performed in the following in the following two steps:

1. Primary Design Phase:

In this phase, the system is designed at block level. The blocks are created on the basis of analysis done in the problem identification phase. Different blocks are created for different functions emphasis is put on minimizing the information flow between blocks. Thus, all activities which require more interaction are kept in one block.

2. Secondary Design Phase:

In the secondary phase the detailed design of every block is performed.

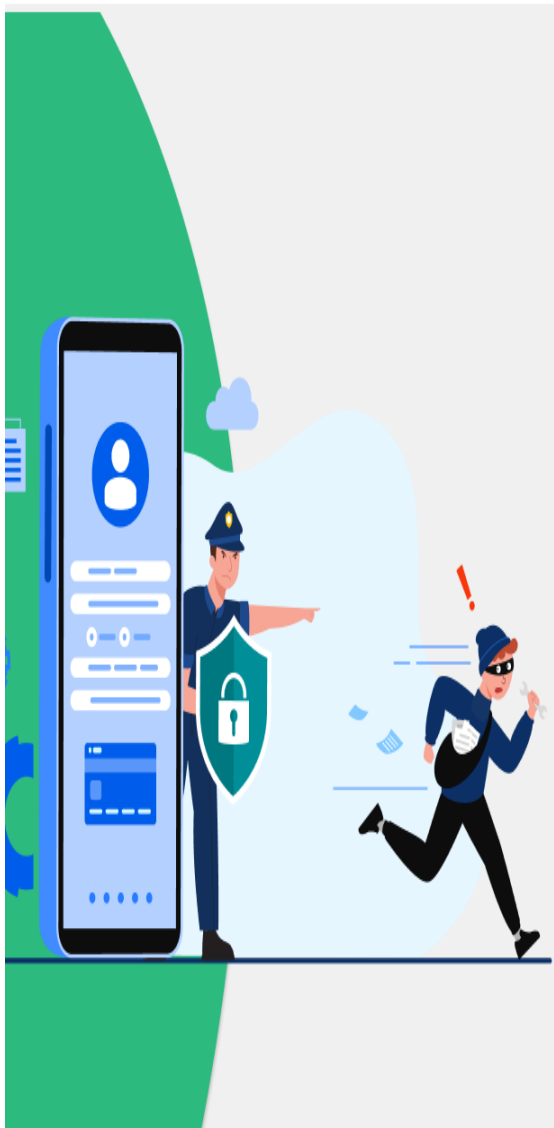
The general tasks involved in the design process are the following:

- Design various panels like login, institute and student panel for overall system processes.
- Design smaller, compact and workable modules in each panel.
- Design tables to view the required data.
- Using images in the form of button so that it can be attractive.
- Centrally aligning all the pages to look systematic.

User Interface Design

User Interface Design is concerned with the dialogue between a user and the computer. It is concerned with everything from starting the system or logging into the system to the eventually presentation of desired inputs and outputs. The overall flow of screens and messages is called a dialogue.

Dialog



Login

Username

Password

☐ User

☐ Admin

☐ Authority

LOGIN

Doesn't have an account yet ? Sign Up

Login Page

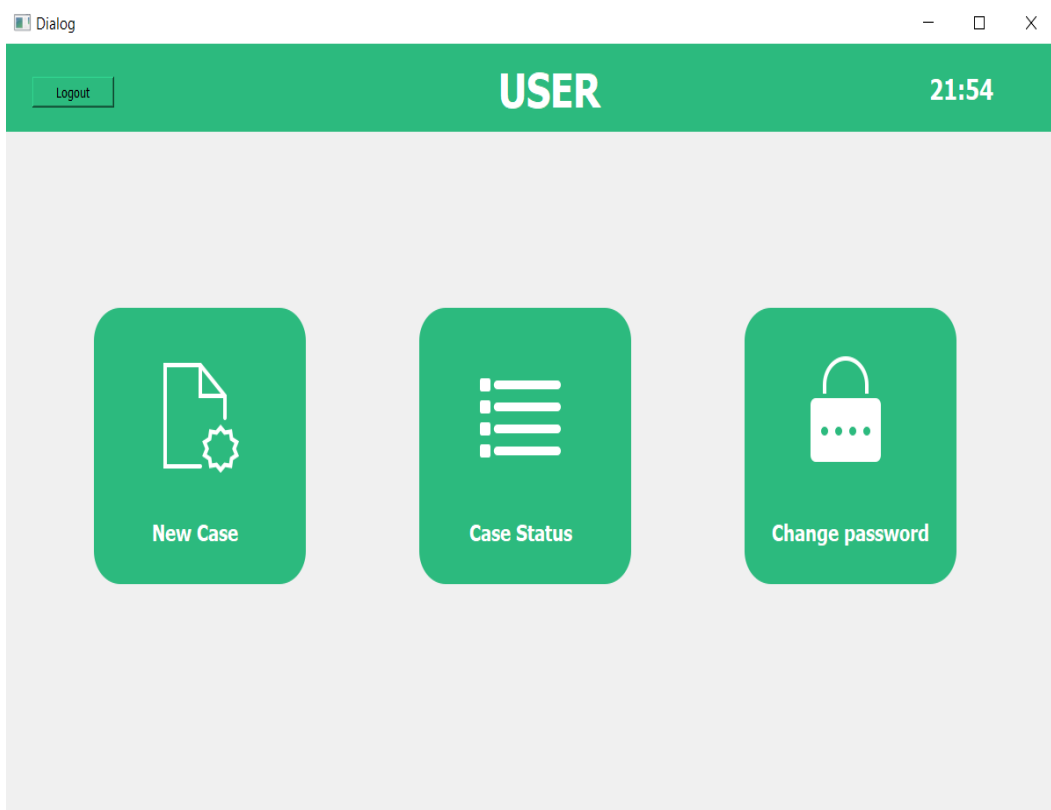
The very first panel of the application is the login page where the user/admin/authority can add their credentials to login using the radiobutton,if login is successful a pop-up is shown, this UI is very simple and easy to understand for people not well versed in technology.

REGISTER HERE

Full Name**E-mail****Address****Username****Password****Confirm Password**

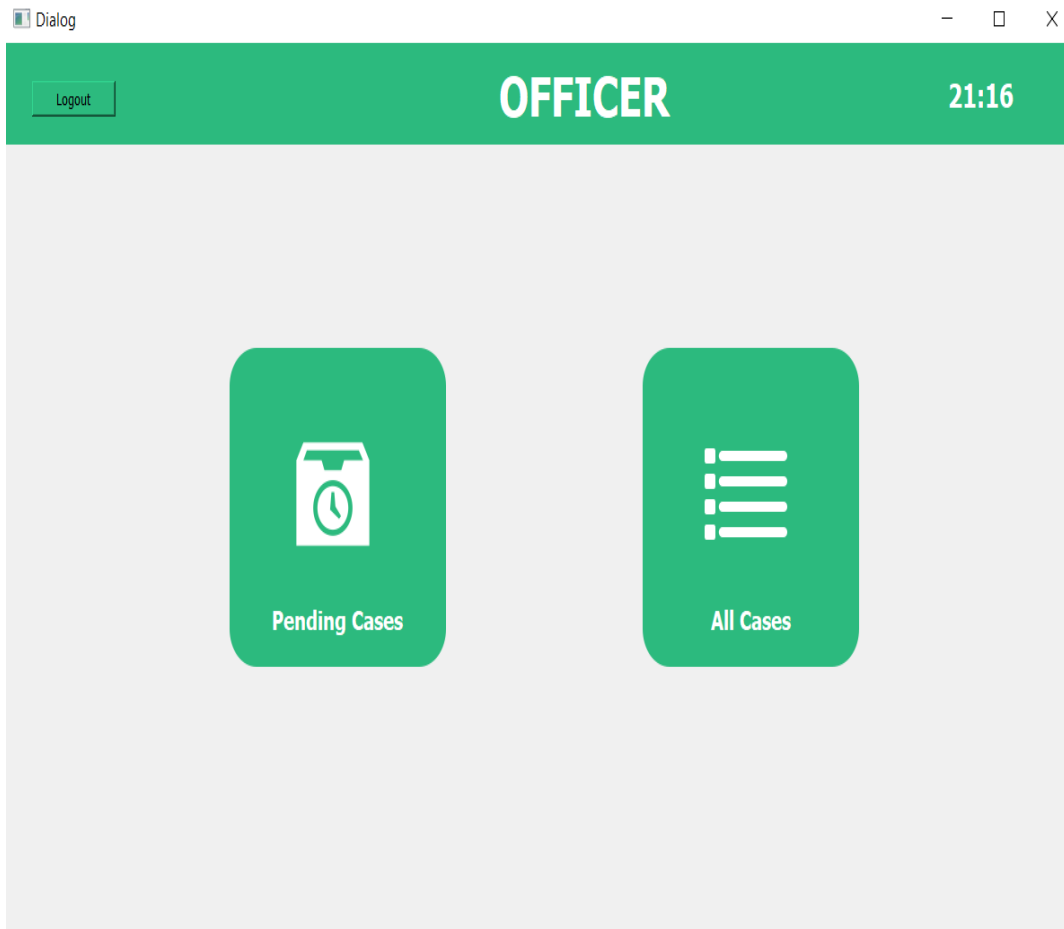
Registration Page

Here, the user has to register using their Aadhaar card number and mobile number, after pressing on the validate button, their full name, email ID, address is automatically added. After this, user has to add their username and password.



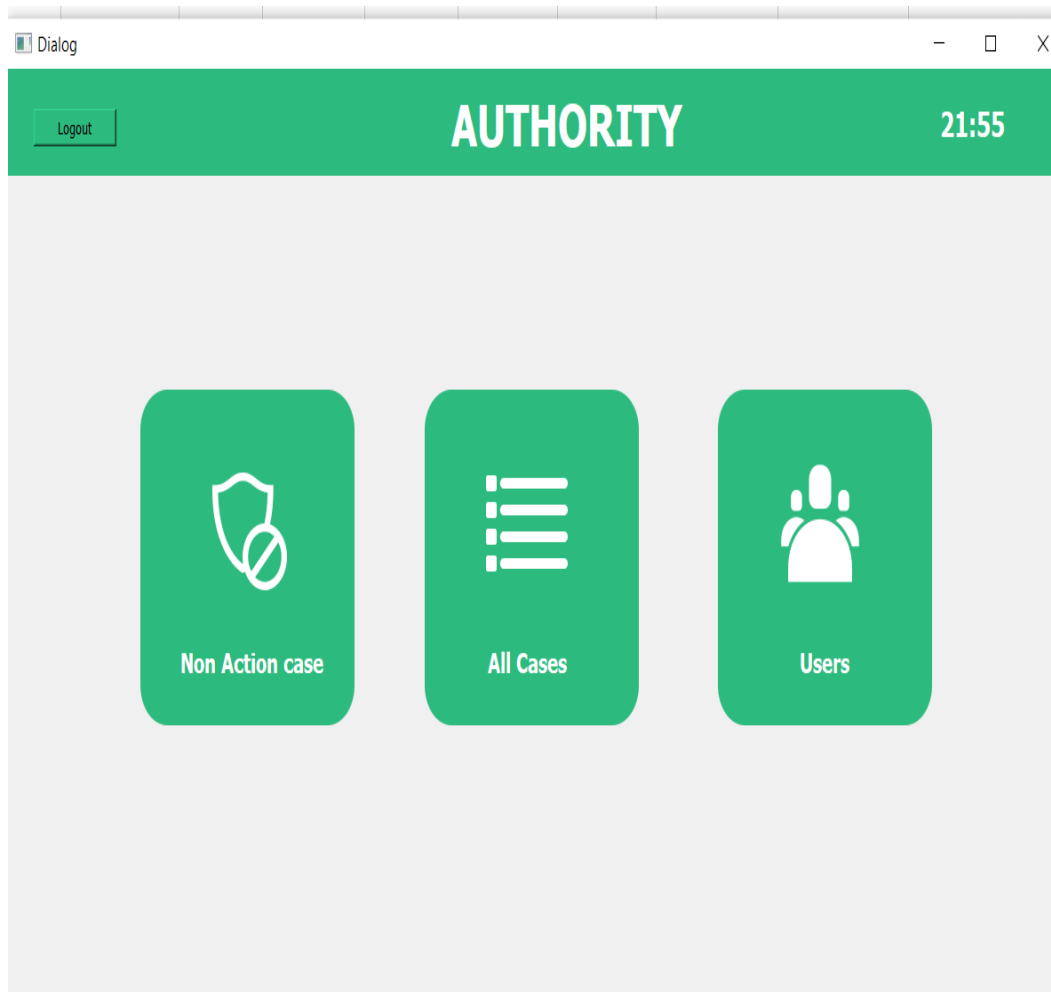
User Panel

This is the user panel. The user can add their complaint from new case where they can add description, location and the type of crime. The cases status panel is then used by the user to view if their case has been approved or rejected or still pending. Finally, the change password panel is used to change the user's password.



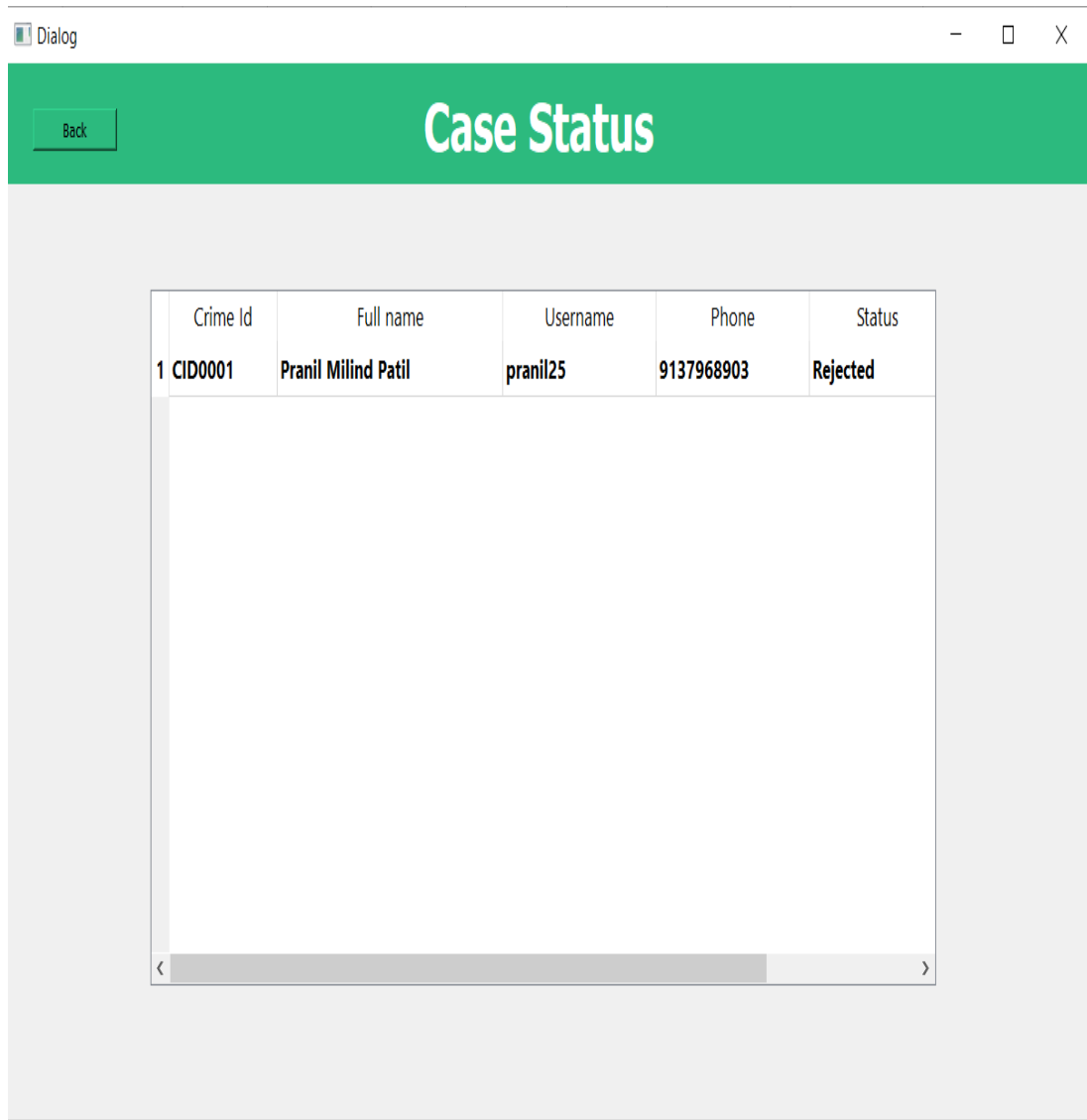
Officer Panel

This panel is seen after officer logs in with their credentials. Here, the two panels are pending cases and all cases. The pending cases panel is used to view all the cases that have not been approved or rejected yet. From this panel, the officer can make their decision to approve/reject the case or simply add pending status for future use. The all cases panel is used to view every single case reported by all the users. There is a logout option available on top left and time on top right.



Authority Panel

This panel can only be used by the authority. After logging in, the authority can view every single user ever registered in the database including the officers. Non-action case panel is used to view all the pending cases (cases without status) from the last week. From this table, the authority can then add the final status to the case. The all-cases panel is a table used to view every single case (approved or rejected).



Case Status

This is one of the tables from the user panel where the user can see his/her case details and check whether or not their case has been rejected/approved/pending. The user can double click the case to view the details.

Chapter 7

Project Scheduling Template

SR NO	Group Member	Time Duration	Work Done
1	Akash Patil	1 st week of February	Designing the Login page, Registration page and the home page includes add, Edit. and implementing the logout/exit button on each page.
2	Pranil Patil	2nd week of February	Designing the database and linking for Registration.
	Pranil Patil and Sahil Shetty	3rd week of February	Testing the linking of database to Registration and Login.
3	Akash Patil	1st week of March	Designing the all cases and pending cases panel and connecting it to the database. Adding Aadhaar Card implementation and linking with Login details.
4	Sahil Shetty and Sushant Waghmare	2nd week of March	Adding the panel to check the status of the complaints and connecting with database.

Chapter 8

Conclusion:

In all the e-crime reporting system is bringing a great difference in the lives of the victims, and the officer. Good management offers better productivity and hence more progress towards development. Seeing its demands and benefits, we have come forward with best-featured the e-crime reporting system. It helps the organization as well as the student to achieve the target, reduce work, increase efficiency, eliminating error, and monitoring progress. It helps the users as well as the officer to achieve the target, reduce work, increase efficiency, eliminating error, and monitoring process and increases the urgency in cybercrimes.

A description of the background and context of the project and its relation to work already done in the area. We define the problem on which we are working in the project. We describe the requirement Specifications of the system and the actions that can be done on these things. We understand the problem domain and produce a model of the system, which describes operations that can be performed on the system. We included features and operations in detail, including screen layouts. We designed user interface and security issues related to system. Finally, the system is implemented and tested according to test cases.

References

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- [2] <https://doc.qt.io/qtforpython-5/PySide2/QtWidgets/QTableWidget.html>
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