

# Online Crime Reporting System

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**ABSTRACT**

Everyone, including police stations and higher authorities, may use the web programme that makes up the online crime reporting system. The Indian public is understandably anxious and reluctant to report suspicious activity to the authorities. The general people in a certain area might be able to lodge grievances and establish contact with the government using an online registration system. The Online Crime Reporting system allows users to lodge complaints against criminals using many areas of a web-based programme. The website will remain visible to the administrator, who may then take the appropriate steps to display the complaint's status and address it.



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## I. INTRODUCTION

The rate of crime is clearly rising on a global scale; yet, we are working to alleviate the caseload for both government officials and the general public in an effort to decrease crime rates. Numerous crime management systems encounter numerous challenges due to the lack of an immediate means of reporting crimes other than phone calls or in-person complaint forms. For a variety of reasons, many individuals choose to ignore minor crimes that occur in their neighbourhood rather than report them to the police. Most people don't pay attention to their surroundings enough to know who's wanted and who's stealing. As a result, we suggest an online reporting system where users may report a variety of crimes, such as missing persons, stolen vehicles, murder, robbery, snatchers, etc. It may record First Information Reports (FIRs). Those in the community and law enforcement officials alike may benefit greatly from this service as it allows citizens to lodge complaints online, eliminating the need to physically visit a police station. In order to use them, users must first authenticate them by entering their details (name, address, phone number, picture, etc.). Javascript, Django, SQL, HTML, and CSS were used in its development. A user, a police officer, and an administrator account may all log in. The action of each lower-level official may be monitored by the person in charge, allowing them to keep the job flowing smoothly. Implementation Methodology:

- ❖ **Model** - The lowest level of the pattern which is responsible for maintaining data .
- ❖ **View** - This is responsible for displaying all or a portion of the data to the user.
- ❖ **Controller** - Software that controls interactions between the Model and View.

## II. LITERATURE SURVEY

Every region of India is seeing an alarming rise in crime rates. In order to effectively decrease crime, it is designed for both public and police stations. This would greatly assist in minimising the occurrence of fraudulent registrations on the website. At the time of registration, individuals must provide accurate and verified information while inputting their credentials. This system is designed to be user-friendly since it does not need any prior knowledge to utilise. The administration is quick, there are no mistakes, it is safe, and it is easy to use. Security personnel will not be able to see any personal information. This system's primary objective is to bring the present manual system online. Officers and members of the public alike will save time as a result. Data may be stored for an extended duration, allowing us to access and change it for an extended length of time. According to new statistics released by the NCRB, the crime rate is rising rapidly, particularly among women. There has been a roughly doubling in crime rates in the last decade. Despite the fact that several surveys have been conducted, none of them have discovered that identifying the pattern is advantageous. Looking at crime statistics from 2001 to 2014 reveals a dramatic increase, particularly in crimes committed against women. Using a map clustering approach, this assesses the efficacy of the crime. A technique that finds solutions using graph theory is known as a graph clustering algorithm. This algorithm treats every entity, whether it's a union territory or a state, as a node. node by node. The similarity between the nodes indicates the crime which is of similar type. In the beginning, it will register crimes that are based on real-time and date and solve them as quickly as possible with help of the police department.

### II.1 Analysis of Crimes by a newspaper article

In order to reduce crime rates in India, it is necessary to analyse past crimes and manage relevant data in order to uphold laws and regulations. Data is king in the present, and this aids the system's work flow. Data, both local and international, is gathered all over the globe.

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## 2.2 Message summarization using a graph-based clustering algorithm

- 3 Daily, millions of tweets are posted by members of various social networking sites. As one of the most rapid means of disseminating news, it records and catalogues all recent occurrences. A keyword matching pattern may be used to find information on a certain object, and there are several terms with the same pattern. Finding the desired result or search becomes much easier for the user. It is able to detect and connect tweets of a similar kind by using a graph clustering technique. It uses tweets of a similar kind organised into nodes, with the goal of selecting one result from each node to add to the final result. Internet word Synsets is a method for discovering commonalities in tweets. An current approach that does not have high performance compared to the suggested system is some fundamental technique. India is seeing a tremendous increase in the number of cases on a daily basis. Criminals nowadays are tech-savvy enough to pull off a wide variety of crimes. This is why the investigation of crimes is becoming more challenging as a result of the increasing complexity of crime. Personnel needs will be decreased while record security is maintained. Police personnel are able to use a transparent approach, such as clustering, for the effectiveness investigation thanks to a mining-based system that analyses and collects data.

## III. MODULES

Three different types of users may interact with this system: the general public, individual police officers, and the higher-ups in the police department. The public may register on the website, and when the public sector has been verified, they can lodge a complaint. Officials from the government utilise the other two, private portals to manage the system. •Therefore, this method will greatly assist and simplify the process where members of the public may submit a complaint online. Prior to proceeding, they must complete the registration procedure. - Records are securely preserved for future use. - The website stores all information regarding offenders. - This keeps the public informed about the crimes occurring in society. - Anyone, including government officials, can add an incident to the system. 3.1 Sign Up The user has to sign up before they can lodge a complaint. A user's address, email address, phone number, password (both temporary and permanent), and confirmation password are all mandatory entries in the registration form. All of those sections are mandatory, and users may also add a self-image; users cannot login or submit a complaint unless they register. 3.2 Sign in The login form requires two fields: an email address and a password. If any of these fields is invalid or if a certain email address is not registered, an error message will be shown. After verifying their email and password, users are sent to the main page where they have the option to submit a complaint, make profile updates, see missing persons and criminals lists, and more.

3.3.1 Account Manager Admin, short for "administrative interface," is where authorised site administrators may make changes to and publish material, as well as manage site users and carry out other administrative duties. Admin has the ability to register and edit the complaint. The administrator has complete control and may change the criminal report's status as needed, such as responding to a complaint. The administrator has the ability to upload images and information on sought and missing offenders. Module for Users 3.4 To aid in the verification and authentication process, an authentication interface is made available to the user. We will proceed with the registration procedure if the user satisfies all of the requirements. It will check whether the specified data exists in the database, and if it does, it will authenticate or confirm the user's identity; otherwise, it will reject their login attempt. Each officer is also linked to the system so they can see crime data and track the progress of complaints. Their personal information (name, phone number, email, etc.) is required upon registration. To facilitate the entry of data into the system, this interface details the public's login and how the system operates. Module 3.5: Complaints Using the details provided by the user at registration, this module allows an unlimited number of users to lodge complaints. The user is required to provide a detailed account of the crime, including any relevant pictures. It information that will aid the police stations in their investigation, including the time and location of the incident as well as its specifics, will be available. After reviewing the report, the police will respond appropriately. If the complaint has been resolved or is pending further action, the user will be notified via email with the complaint's registration number. Website statuses may be changed by the admin in the system to pending, closed, or in progress. By using it, the user may stay informed about what's happening right now.

The benefits listed in section 3.3 are as follows: better service, accurate data, less manual data input, user-friendliness, minimum time necessary, and control by higher authorities.

#### **IV. PURPOSE OF THE SYSTEM**

Ensuring safety and streamlining the reporting of crimes are the primary goals of the system. The amount of time spent at the police station will be decreased. Nowadays, people often have a hard time putting their faith in the government; as a result, they skip out on reporting minor infractions and instead let them fester. Reestablishing communication between the government and the public will make it easier for the latter to lodge complaints without physically visiting a police station. It may be feasible to do this from the comfort of your own home with the aid of this website. Anyone over the age of eighteen may easily register and submit a complaint on the website. The website is designed to be user-friendly, even for those with less education. Every user has a profile that they may edit to change their information. No one may abuse their profile, and users will be able to lodge complaints more easily.

#### **V. FEASIBILITY STUDY**

Whether or whether the project can be realised is decided by it. The project's viability is dependent on three key factors.

Your system's minimal configuration is determined by the operational feasibility study. A decent processor—ideally one that is on par with or better than a Pentium—and at least 512 MB of RAM are necessities. Database storage and access are two technical terms that could be used in a feasibility study. In order to meet the system requirements, it requires a high-quality processor in GHz with the appropriate technologies.

Checking whether a project can be produced for less money and if it would be helpful is one aspect of feasibility. We need to develop the project inside the budget so that we may cut down on unnecessary expenses.

#### **VI. CONCLUSION**

A small and completely integrated system is created in this work. It is designed to be user-friendly, making it suitable for both civilians and law enforcement. They both stand to gain from this arrangement. In India, both the government and regular citizens may make use of this capability. This project's strength lies in the new features it incorporates while keeping the original system's traits. For example, it has three login modules—one for users and two for administrators.

#### **VII. FUTURE SCOPE**

Eventually, the system will let users exchange messages, and video conferencing is something that can be added to make the project more exciting. The ability to instantly download complaints by scanning QR codes is something we can include into future systems.

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