International Journal of Advance Research in Computer Science and Management Studies

Online Crime Reporting System

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Abstract: Crime is part of human activities and needs to be managed. No human society as ever been totally free of deviants and it is unlikely that society will ever be. The more populated and complex a society becomes the wider the range of antisocial conducts that must be controlled by the government through the armed forces and other agencies especially the Police Force. The victims can file the case through the website under various sections and the user can send photo evidence if any online. Overall, the Online Crime Reporting System project is an essential step towards improving the efficiency and effectiveness of law enforcement in managing crime.

Keywords: manage case, reduce crimes, proper investigations.

I. INTRODUCTION

Modern society is characterized by increasing levels of global social mobility and uncertainty relating to levels of risk posed by internal and external security threats. Within this climate security driven by technology is increasingly being used by governments, corporate bodies and individuals to monitor and reduce risk. Online Crime Reporting System is developed on HTML, PHP and SQL database. This project's primary goal is to make all crime management options freely accessible to everyone. Online crime reporting system can lead to error free, secure, reliable and fast management system and it can assist the user to concentrate on the other activities rather than to concentrate on the record keeping. The purpose of the project is to automate the existing manual system with the help of computerized equipment and to fulfill the requirements so that the data can be stored for long period with easy accessing and manipulation.

The system, has each the user likewise the Admin half, the role of admin is to merely check all the three modules or classes and update their standing likewise. this technique helps the users in following any report filed to the law and take a bonus of reportage any grievance from anyplace conveyance the complete system on-line.

The "Online Crime Reporting System" has been developed to override the problems in the manual system. This project helps the people who are shy or scared to visit the police station and helps them to register the complaint. In the manual system, it is hard to maintain the case files and evidence, when the case investigation grows managing the data will be difficult.

II. LITERATURE SURVEY

This system is designed for particular need of the company to carry out operations in a smooth and effective manner. The application is reduced as much as possible to avoid errors while entering the data and it also provide error message while entering invalid data. No formal knowledge is needed for the user to use this system and hence it proves it is user friendly. Online crime reporting system can lead to error free, secure, reliable and fast management system and it can assist the user to concentrate on the other activities rather than to concentrate on the record keeping. The purpose of the project is to automate the existing manual system with the help of computerized equipment's and to fulfil the requirements so that the data can be stored for long period with easy accessing and manipulation.

The number of crime incidents reported per day in India is increasing dramatically. The criminals use various advanced technologies and commit crimes in tactful ways and this makes crime investigation more complicated process and the police officers perform lot of manual tasks to get thread for investigation.

III. RESEARCH METHODOLOGY

The existing system in which a victim has to visit the nearest police station makes crime reporting a very strenuous action as a result of difficulties involved before information on a particular crime is lodged. Most victims prefer to report directly to court as to maintain law and order in a bid to seek justice. The police approach as regards FIR (FIRST INVESTIGATION REPORT) encumbers rigid investigation and analysis of crime thereby render innocent sometime culprit. Also, protecting the files of important records requires huge amount of money is expended for the physical safety of the important files/records. Thus there are various challenges for manually maintaining the records instead of the modern computer systems. Structured System Analysis and Design Method (SSADM) can be thought to represent pinnacle of the rigorous document led approach to system design, and contrasts with more contemporary Rapid Application Development methods such as DSDM Sampson et.al (2019). System design methods are a discipline within the software development industry which seeks to provide a framework for activity and the capture, storage, transformation and dissemination of information so as to enable the economic development of computer systems that are fit for purpose.

Functional Requirements:

The functional requirements highlight the specific functions the system should be able to carry out. These include:

- Add users (police officers and background screening companies) and assign them their different level of privileges.

- Validate user login details and ensure user-level privileges to information.

- Store and retrieve information about crime and criminals.

- Perform search functions based on some specified criteria.

- Perform crime analysis and statistics as well as to generate adequate reports. vi. Generate criminal's report.

IV. PROJECT PLANNING AND SCHEDULING

The project will follow a structured development process with weekly progress milestones:

- Week 1: Requirement gathering and analysis

- Week 2: Designing user interface and database schema

- Week 3: Implementing core functionalities (user registration, complaint filing)

- Week 4: Testing and debugging initial prototype

- Week 5: Enhancing system features based on user feedback

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- Week 6: Final testing and bug fixing

- Week 7: Deployment and launch of the system
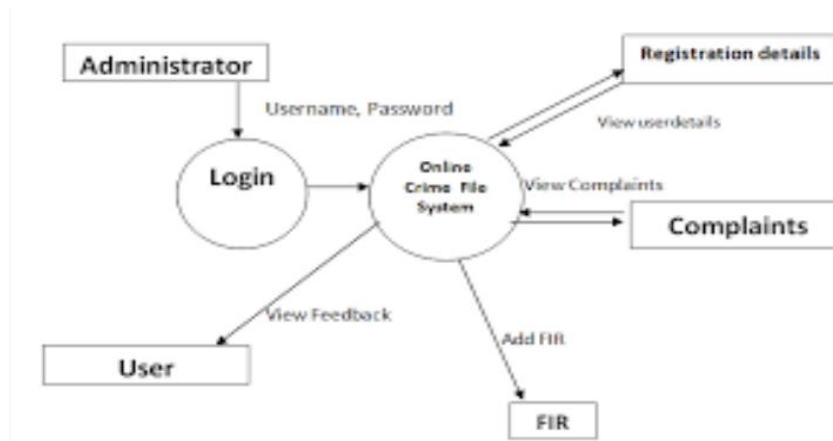
V. DATA FLOW DIAGRAM

Fig 1.1 DFD of Administrator's Module
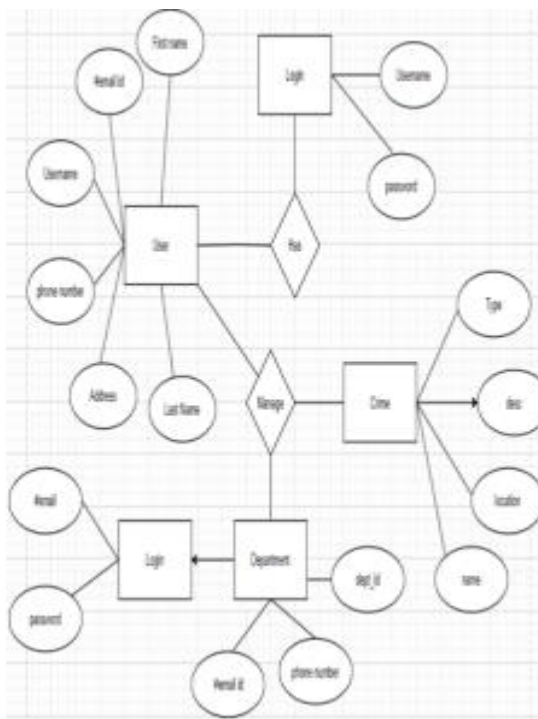

Fig.1.2 An Entity- Relationship diagram (E R diagram)
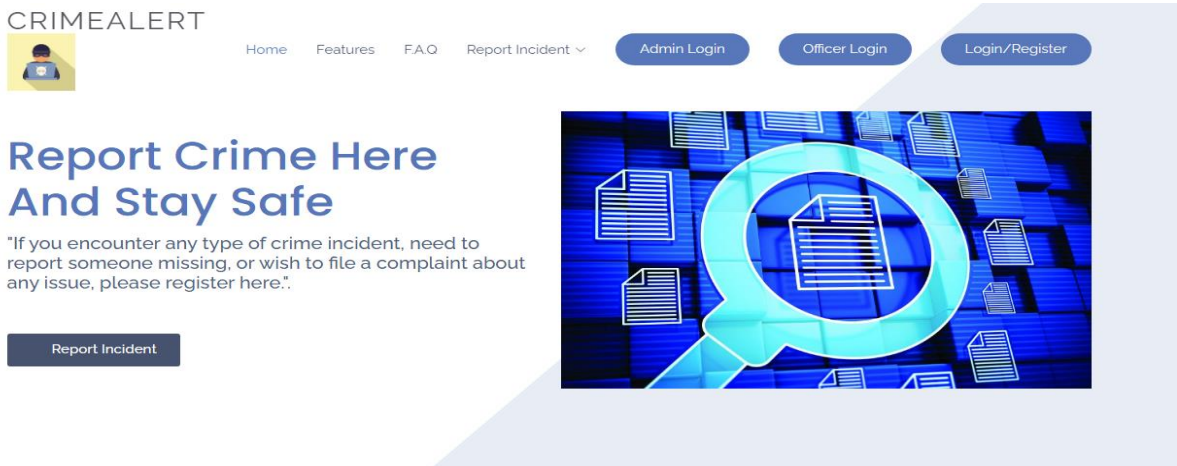

Fig 1.3 Use-Case Diagram

VI. RESULT AND DISCUSSION

❖ **User Engagement**: Initial user engagement metrics indicate a positive response to the Crime Reporting System, with a steady increase in the number of incident reports submitted and user interactions observed since the system's launch.

❖ **Incident Response Times**: Analysis of incident response times shows promising results, with a significant reduction in the average time taken to process and resolve reported incidents compared to traditional reporting methods.

❖ **User Satisfaction**: Feedback from users suggests a high level of satisfaction with the system's ease of use, accessibility, and responsiveness. Users appreciate the convenience of reporting incidents online and receiving timely updates on their reported cases.

❖ **System Performance**: Preliminary performance tests indicate satisfactory system performance under typical usage scenarios, with minimal downtime and acceptable response times for user interactions such as incident reporting and status tracking.
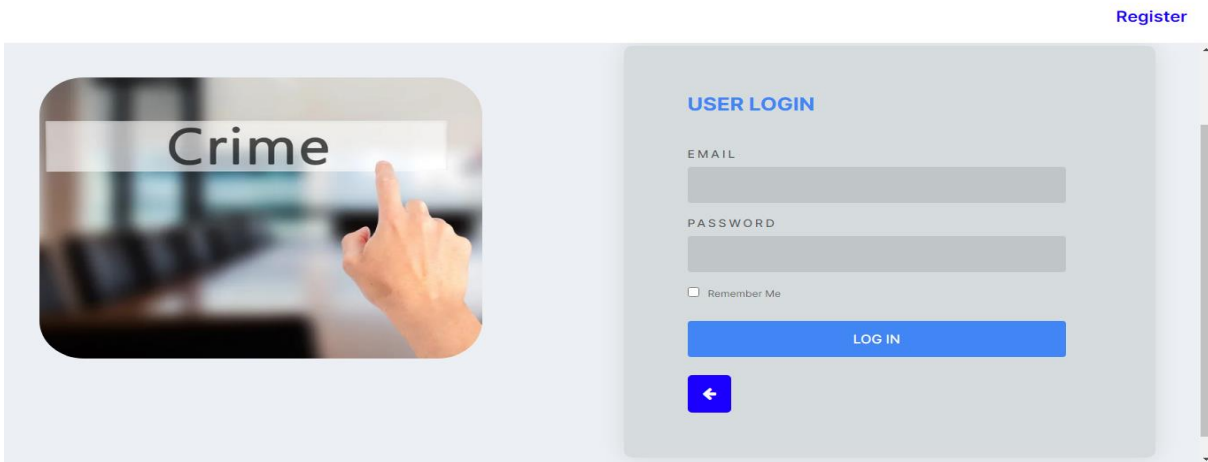
Discussion on Implications of the Results:

1. **Enhanced Public Safety**: The positive user engagement and quick incident response times signify the potential of the Crime Reporting System to enhance public safety by facilitating timely reporting and resolution of incidents. This can lead to a more proactive approach to crime prevention and law enforcement.

2. **Improved Community Trust**: The high level of user satisfaction reflects positively on the credibility and reliability of the system. Building and maintaining trust among users are essential for ensuring continued participation and adoption of the system within the community.

3. **Efficiency Gains**: The reduction in incident response times indicates improved operational efficiency within law enforcement agencies and other relevant organizations. By streamlining reporting processes and enabling real-time communication, the system can optimize resource allocation and minimize delays in incident resolution.

4. **Data-Driven Insights**: The Crime Reporting System generates valuable data insights that can inform strategic decision-making and resource planning. Analysis of reported incidents, trends, and patterns can help identify high-risk areas, allocate resources effectively, and implement targeted interventions to address community safety concerns.

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LOGIN PAGE

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USER PROFILE

USER COMPLAINT STATUS

VII. CONCLUSION

Summary of Project Objectives and Achievements:

1. **Objective**: The primary objective of the Crime Reporting System project was to develop a user-friendly and efficient platform for reporting and managing various types of incidents, including complaints, crime reports, and missing person reports.

2. **Achievements**: Throughout the project lifecycle, significant progress has been made in achieving this objective. Key achievements include the successful design, development, and implementation of the Crime Reporting System, which provides users with a centralized platform for incident reporting, tracking, and communication.

3. **User Engagement**: The system has demonstrated promising levels of user engagement, as evidenced by the increasing number of incident reports submitted and positive feedback received from users regarding the system's ease of use and responsiveness.

4. **Operational Efficiency**: The Crime Reporting System has also contributed to improving operational efficiency within law enforcement agencies and other relevant organizations by streamlining reporting processes and enabling real-time communication and data analysis.

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