CRIME MANAGEMENT SYSTEM

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Abstract: The "Crime Management System" is a web based website for online complaining and computerized management of crime records. Here in this website a person who wishes to file a complaint or report an incident must register before log in and once the admin authenticates the user he or she can login into the website and file a complaint. This complaint will be received by police and police can send a message regarding status of the complaint to the user who filed the complaint. Police can use this software to manage different crimes and some of the works which is done in police station manually. Police gets their login password from admin directly. Some of the modules like news, safety tips, missing persons and most wanted criminals can be viewed through the website without logging in. So this website helps police to find out the problems in the society without them actually coming to the police station.

Keywords— Introduction, Proposed System, System Design, Technology Description, Advantages.

Introduction (Heading 1)

The crime management system can help in storing the records related to the criminals, cases, complaint record, case history and so on. This can allow a person to enter or delete the records if necessary. All these records can be maintained in a single database. Security is maintained so as to ensure that only the authorized users will have access to the system. This application will be one of the useful projects that the police can rely on. This website can help in getting the information of the criminals of many years back. It can also help in minimizing most of the work of the police. The features that can be included in this website are as follows:

- 1.1 Criminal record: This website can contain the details related to the criminals in the particular case.
- 1.2 Complaint registration: The details of the complaints that are registered can also be stored through this website.
- 1.3 Police database management: The details of the police in the particular police station can be maintained through this website.
- 2. PROPOSED SYSTEM
- 2.1 MODULES
- 2.1 Station module:

Each of the station must first register with the website.

Once the prospective station registers with the website they can avail the existing records.

2.2 Citizen module:

Each of the citizens, who has a complaint to register, must first register on the Website.

Once the registration is complete, the citizen can sign-in to the website & register their complaint.

2.3 Crime module:

This module is used for entering all details about the crime.

2.4 Administrators Module:

The module will be focusing on the maintenance like Master Data Maintenance, Removal of old and outdated data from the software etc.

2.2 ACTORS OF THE PROJECT:

User: Posting the complaints, Posting the reminders and View the status of his complaint.

Administrator: Viewing the complaints, viewing reminders, Generating the reports.

Department: Detect the criminals and punish them according to the police laws.

3. SYSTEM DESIGN

Fig. 3.1 System Flow Diagram Illustrating the sequential flow of operations, this diagram visually outlines the dynamic interactions and processes within the Crime Management System.

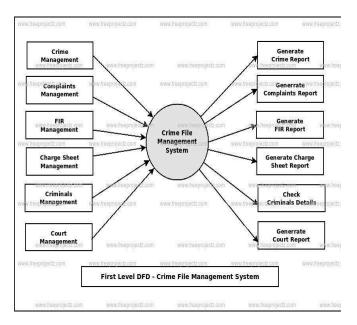
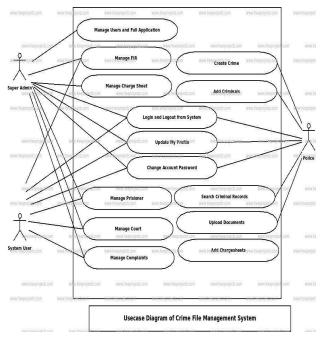


Fig. 3.2 Use Case Diagrams: Visitor use case Diagram Admin use case Diagram



4. TECHNOLOGY DESCRIPTION:

4.1 Java:

Java, a versatile and object-oriented programming language, is well-suited for developing robust and scalable web applications. Known for its platform independence, Java allows developers to write code that can run on any device with the Java Virtual Machine (JVM). Its extensive libraries and frameworks contribute to the creation of feature-rich and maintainable applications. In the context of the Crime Management System, Java provides the foundation for building a secure and efficient backend, handling complex functionalities seamlessly

4.2 Spring Boot:

Spring Boot, a framework built on top of the Java programming language, is specifically designed to simplify and accelerate the development of Java applications. It follows the convention over configuration paradigm, reducing the need for boilerplate code and allowing developers to focus on application logic. In the Crime Management System, Spring Boot facilitates the creation of a scalable and easily maintainable backend. It streamlines the development process, providing a comprehensive set of tools and conventions for building enterprise-grade applications.

4.3 **MySQL**:

MySQL, an open-source relational database management system, plays a crucial role in the efficient processing and storage of data within the Crime Management System. MySQL's reliability, speed, and support for SQL queries make it an ideal choice for managing complex relational databases. It ensures data integrity and enables seamless retrieval and storage of information related to criminal records, complaints, and police personnel.

4.4 JavaScript:

JavaScript, a lightweight and versatile scripting language, enhances the user interface and interaction on the Crime Management System website. As a client-side scripting language, JavaScript allows for dynamic content creation, real-time updates, and improved user experiences. In conjunction with HTML and CSS, JavaScript contributes to the responsiveness and interactivity of the web pages, making the Crime Management System more user-friendly and engaging for both citizens and law enforcement personnel.

5. Snapshots:



Fig 5.1 Page Name : Admin signin. The entry point for administrators, offering secure access to the backend functionalities of the Crime Management System



Fig 5.2 Page Name: Application homepage. The central hub for users, providing an intuitive interface to navigate and access key features within the Crime Management System

(RIMINAL RECORD	
Fullnames		
Gender	Male 🔻	
Age		
Nationality	Nigerian 🔻	Upload Image
Type of Offense	Suicide Attempt	
Case/ File Number		
Bail Status	Yes	
Jail Term	1-5 years	

Fig 5.3 Page Name: add criminal page. THIS

PAGE FACILITATES THE SEAMLESS ADDITION OF NEW CRIMINAL RECORDS, ENHANCING THE CRIME MANAGEMENT SYSTEM'S DATA INPUT FUNCTIONALITY."



Fig 5.4 Page Name :edit criminal record page. This page enables authorized users to modify and update existing criminal records, ensuring accurate and up-to-date information within the Crime Management System.

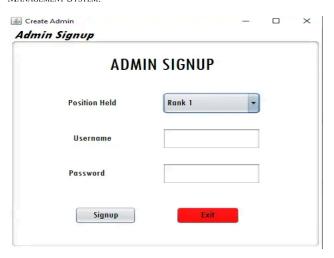


Fig 5.5 Page Name :Admin Signup. This page serves as the interface for administrator registration, enhancing security measures and access control within the Crime Management System

6. Advantages:

- Reduced time consumption.
- Elimination of paperwork.
- Prevention of record loss.
- Centralized database management.

7. FUTURESCOPE:

- Provision of databases for different product ranges and storage.
- Implementation of multilingual support.
- Addition of more graphics for enhanced user-friendliness.
- Management and backup of document versions online.

CONCLUSION:

In conclusion, the Crime Management System, developed using Java and complemented by Spring Boot, MySQL, and JavaScript, represents a cutting-edge solution for modernizing complaint registration and crime record management. This system not only overcomes the drawbacks of traditional approaches but also ensures efficiency, accuracy, and user-friendly interactions. Leveraging Java's versatility, Spring Boot's streamlined development, MySQL's robust database management, and JavaScript's dynamic user interface, the Crime Management System stands as a powerful tool for law enforcement agencies. Its commitment to scalability, accessibility, and real-time interaction sets a new standard, providing a comprehensive and efficient platform for the vital task of managing crime-related information.

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