**ABSTRACT**

**Topic: - ECHO - Online Crime Reporting System**

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**Title: Online Crime Reporting System**

**Abstract:**

The Online Crime Reporting System using Python Django is a web-based platform designed to empower individuals to report criminal activities and incidents in a convenient and efficient manner. This project aims to bridge the gap between the general public and law enforcement in Kottayam district, ensuring a seamless process for reporting and addressing crimes. The system provides an easy-to-use interface where users can submit detailed information about criminal incidents, suspicious activities, or safety concerns.

The system offers several key features, including user registration and management, and administrative interfaces for Admin. Upon registration, users can log in securely and submit comprehensive details related to the incident, such as location, time, descriptions, and even multimedia evidence like photos. These reports are then stored in a centralized database, ensuring data integrity and easy access. The admin is equipped with a dedicated administrative panel where they can review, prioritize, and manage reported incidents

The project leverages the Django framework, which provides a robust foundation for building secure and scalable web applications. Django's authentication system ensures user privacy and data protection. Furthermore, the project focuses on creating an intuitive and user-friendly interface, making it accessible to individuals of all technical backgrounds.

**Underlying Technologies**

**Front End:** Html, CSS

**Back End:** Python Django

**Database:** Sqlite3

**GENERAL FUNCTIONALITIES**

**1. User Registration and Authentication:**

* Allow users to create accounts by providing necessary information.
* Implement secure authentication mechanisms to protect user accounts and data.
* Notify users about the status and progress of their reported incidents.

**2. Incident Submission:**

* Provide a user-friendly form for reporting incidents, with fields for incident details such as location, date, time, description, and any supporting media (photos, videos).
* Validate and sanitize user inputs to ensure accurate and reliable information.

**3. User Dashboard:**

* Provide users with a personalized dashboard where they can view their submitted incident reports, track their status, and access relevant updates.

**4. Administrative Interface:**

* + Develop an administrative panel for law enforcement personnel to review, manage, and prioritize reported incidents.
  + Enable filtering and searching of incidents based on various criteria.

**5. Privacy and Security:**

* + Implement proper data security measures to protect user data and sensitive incident information.
  + Provide options for users to report incidents anonymously if desired.

**6. Multimedia Handling:**

* + Support the uploading and storage of multimedia evidence (photos) along with incident reports.
  + Ensure proper handling and display of multimedia content.

**MINI PROJECT**

**Admin**

* **Login:** Admin can login in his account using id and password.
* Admin can update his account, change password and logout.
* Dashboard for Admin User
* **Manage Criminal**
* Adding new criminal
* Edit the existing criminal
* View details of the criminal
* Listing of all criminal
* Listing most wanted criminals
* **Manage Category of Crime**
* Adding new crime category
* Edit the exiting crime
* View details of the Crime
* List of crime category
* **Manage User**
* Adding new user
* Edit the exiting user
* View details of the User
* Listing of all User
* **Manage Crime**
* Adding new crime
* Edit the exiting case update crime status
* View details of the crime
* Listing of all crimes

**User**

* **User Registration:** User has to register to file complaints, crimes or missing reports.
* **User Login:** User can login to the system using his/her credentials to file and check status of his/her complaints or missing reports.
* **Case:** As per category of crime case should be added and provide a picture, if he has one related to the crime, also can check the status of crimes he has filed.
* **Missing Persons:** User can enter all the details of the person with a photo.
* **View News: posted by admin**
* User can view his filed cases (history).
* User can update his account details
* User feedback
* Change password
* User logout

**Visitor**

* Allows unregistered users to see the crime-news which can be updated by the admin.
* View crimes in their locality by entering their pin code.

**MAIN PROJECT**

**Underlying Technologies**

**Front End:** Html, CSS

**Back End:** Python Django

**Database:** Sqlite3/MongoDB

**Admin**

* **Manage**
* List all Criminals
* List of all Crimes that are reported
* List of all Employees
* **Data Management**: Allow administrators to manage the data stored in the system, including archiving or deleting old incidents.

**Law Enforcement Departments**

* **Manage Cases**
* List Most wanted
* Manage Complaints
* Manage missing persons
* **Review User Feedback:** Allow employees to review user feedback about incidents, investigation experiences, and suggestions for improvements.
* **Multimedia Evidence:** Provide a dedicated space for to view, manage, and analyze multimedia evidence (photos, videos) related to incidents.
* **Evidence Upload:** Allows to upload additional evidence collected during the investigation.
* Include a help or support section for users encountering issues or needing assistance.