# ABSTRACT

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

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# MAIN PROJECT

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.

**Underlying Technologies**

**Front End:** Html, CSS

**Back End:** Python Django

**Database:** Sqlite3/MongoDB

## Law Enforcement Departments

- **Manage Reports**
  - Criminal Report
  - Case Report
  - Case Report
- **Review User Feedback:** Allow employees to review user feedback about incidents, investigation experiences, and suggestions for improvements.
- **Case Search:** Provide advanced search and filtering capabilities to quickly locate specific incidents assigned to them.
- **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.

  **Internal Messaging:** Allow officers to collaborate with other officers or investigators regarding specific incidents

**Integration with Emergency Services:**

Enable users to escalate incidents to emergency services with a single click, especially for situations requiring immediate attention.

**Real-time Chat Support:**

Integrate a real-time chat feature that allows users to interact with law enforcement or support staff in real-time for immediate assistance.

**Machine Learning Modules on Consideration:**

1. **Face Recognition:** user of witness of the crime can give the physical information of criminal.

2. **Incident Classification:** Implement a basic text classification model using techniques like Naive Bayes or Logistic Regression to categorize incident descriptions into predefined categories (e.g., theft, assault, vandalism).

3. **Keyword Highlighting:** Implement a feature that highlights key phrases in incident descriptions, aiding law enforcement in quickly identifying relevant information.