

Cybercrime Incident Management & Awareness System

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Objective

- Provide a secure, centralized platform for reporting, tracking, and managing cybercrime incidents.
- Facilitate collaboration between victims, investigators, and administrators.
- Raise public awareness on safe online practices.

Frontend Features

- **Incident reporting with evidence upload:** Victims can file reports and attach documents, images, or videos for investigation.
- **Awareness Hub for educational content:** Provides articles, guides, and safety tips to promote digital literacy.
- **Role-based dashboards for different users:** Customized interfaces for victims, investigators, and admins to view relevant data and tasks.
- **Crime mapping and statistics:** Visualizes incident locations and trends for better situational awareness.
- **Notification system:** Sends real-time alerts to users when their case status changes or new awareness updates are published.
- **Responsive UI using React & JavaScript:** Ensures smooth, accessible, and visually appealing experience across all devices.

Backend Components

- **User authentication and role-based access control:** Ensures that only authorized users can access specific features based on their role.
- **PostgreSQL database with Django backend:** Provides a scalable and reliable database solution powered by a robust web framework.
- **Secure file handling & password hashing:** Protects sensitive user data and uploaded evidence using encryption and hashing algorithms.
- **Analytics for location-based crime trends:** Processes incident data to generate insights and highlight high-risk areas.

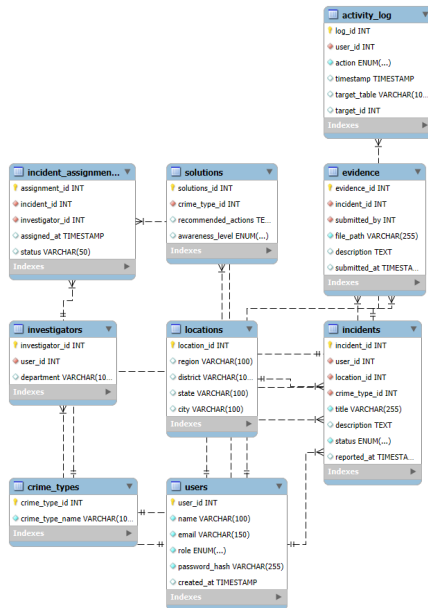
Abstract

The project aims to develop a secure and centralized platform for cybercrime incident management. CIMAS enables victims to submit complaints and evidence, while investigators can manage cases and track progress. It offers location-based analytics and an Awareness Hub for public guidance. Built with React, JavaScript, Django, and PostgreSQL, the system ensures security via password hashing, access control, and safe file handling. Core features include reporting, case tracking, crime mapping, and awareness content.

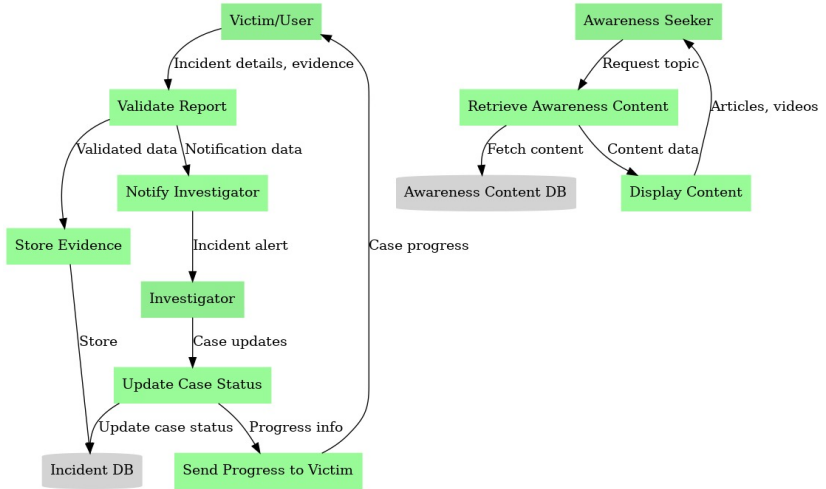
Module Description

- 1 **User Management Module:** Handles registration, authentication, and role-based access for system users.
- 2 **Incident Reporting Module:** Enables users to submit, track, and manage crime incident reports.
- 3 **Evidence Management Module:** Stores, organizes, and secures digital and physical evidence records.
- 4 **Case Assignment Module:** Assigns reported cases to investigators based on workload and expertise.
- 5 **Activity Logging Module:** Records all system activities for security, auditing, and accountability.
- 6 **Crime Analytics Module:** Analyzes incident data to identify patterns, trends, and hotspots.
- 7 **Awareness & Solutions Module:** Provides educational resources and preventive measures against crimes.

ER Diagram



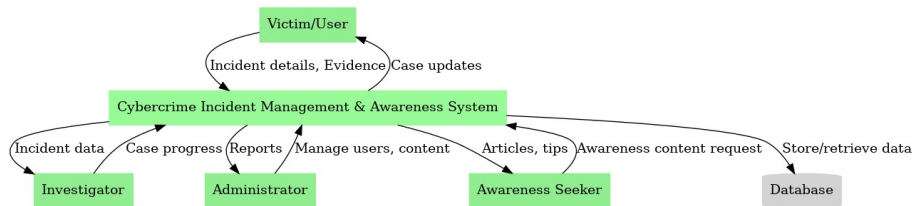
DFD Level 0



DFD Level 1



DFD Level 2



Conclusion

- CIMAS improves cybercrime reporting, investigation, and awareness.
- Strong security and role-based workflows enhance trust.
- Future: AI crime detection, blockchain evidence verification, mobile app.