

FINAL PROJECT

“CitizenConnect360”

Problem Statement

Citizens lack understanding of crucial government documents like the Finance Bill, leading to uninformed participation and advocacy. There is a need for a platform where citizens can express views, engage in decision-making, and efficiently report incidents during emergencies.

Solution Overview

Develop a full-stack project to: - Educate citizens about government documents like the Finance Bill. - Enable citizens to report issues and submit feedback to the government. - Utilize AI for summarizing citizen views and identifying critical areas during emergencies. - Facilitate public polls for inclusive decision-making processes.

Objectives

1. Citizen Education: Provide accessible information on government documents.
2. Incident Reporting: Allow citizens to report incidents with multimedia support.
3. Government Interaction: Enable officials to view incidents, summarize citizen feedback with AI, and identify priority areas.
4. AI Integration: Implement AI for automated issue summarization and situational awareness.
5. Public Participation: Conduct polls to gauge public opinion and facilitate decision making.

Roles

Citizen: Participates in polls, reports incidents, and engages with AI-driven services.
Government Official: Monitors incidents, views citizen feedback, and uses AI for analysis.

Admin: Manages user roles and permissions, ensures platform integrity.

Frontend Features

Authentication: User registration, login, and password management (sent links to reset password via mail).

User Interface:

- Dashboards displaying active polls and incident reports.
- Incident reporting with multimedia uploads.
- AI-driven chat for citizen Education.
- View all citizen-submitted views and opinions, Submitting a new one. Others

Backend Development

Endpoints: Implement CRUD operations for incidents, polls, and user management.

Security: Secure APIs with JWT authentication and role-based access control.

Management: Use PostgreSQL or MSSQL for robust data storage and retrieval.

Background Services Notifications:

Automated emails for password reset, welcome messages, and other alerts.

Testing and Deployment

Testing: Conduct unit, integration, and end-to-end testing to ensure functionality and reliability.

Deployment: Deploy on AWS or Azure for scalability and accessibility.

State Management

Use any state management tool.

Responsiveness

Both mobile and Desktop

Project Management Tools:

Employ any p project management tools to track project.

Documentation

Diagrams: Create and document at least 6 ERD diagrams for database structure and relationships.