

Crop Monitoring System Pitch Deck

Project Overview

- A web-based Crop Monitoring System that supports farmers with real-time data on soil conditions, pest detection, and weather forecasts.

Key Features

- Real-time Sensor Data Simulation
- Weather Forecast Integration using OpenWeatherMap API
- Pest Image Upload & Dummy Detection
- Crop Health Visualization (Simulated Index Graph)

Technology Stack

- Frontend: HTML, CSS, JavaScript
- Backend: Python (Flask)
- API: OpenWeatherMap
- Database: SQLite (via SQLAlchemy)

How it Works

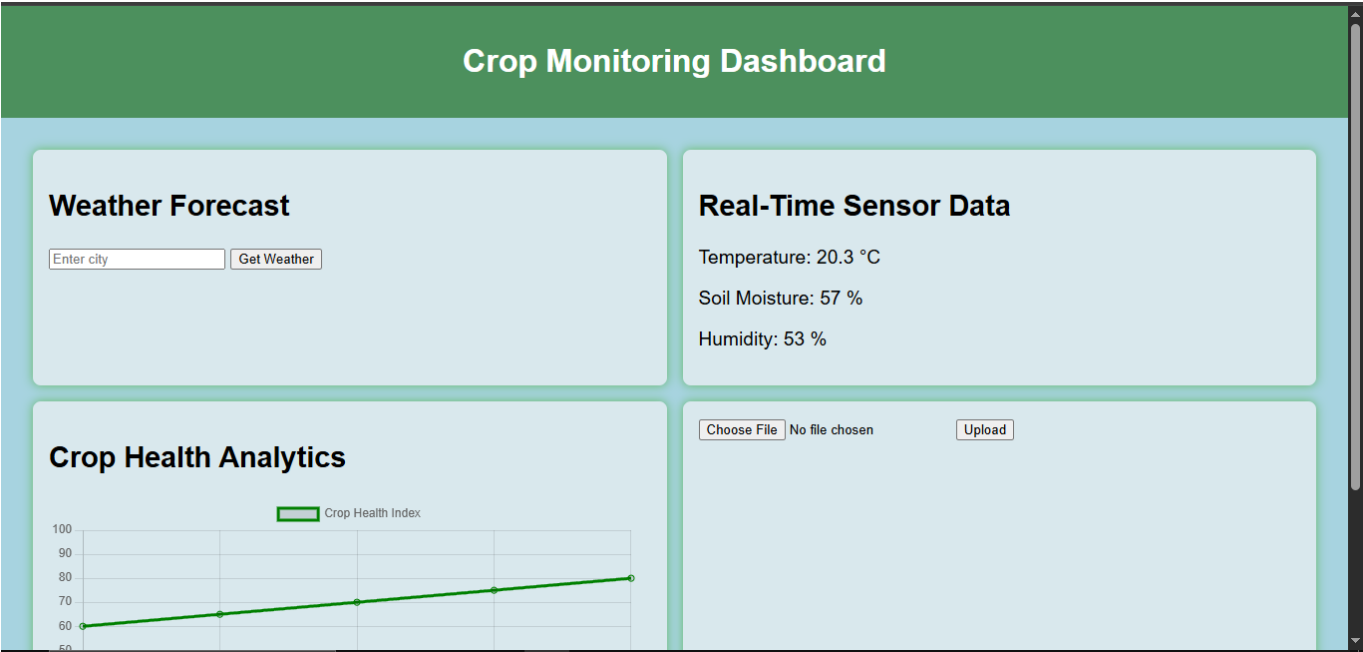
- User opens the dashboard to view simulated sensor data.
- Enters a city name to retrieve the current weather forecast.
- Uploads pest images to simulate detection.
- All logs are saved in the backend database.

Developer Info

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Dashboard Overview



Weather & Pest Detection Example

