Crop Recommendation System with IoT & Vertical Farming

1. Crop Profile Card

Display an image and key info card for each predicted crop including ideal conditions and tips. Helps farmers understand the recommendation.

2. Graph on Dashboard

Add a Chart.js line graph to visualize temperature, humidity, and moisture over time using historical IoT data. Makes the system more informative.

3. Prediction Logging

Store every crop prediction (along with input values) in a CSV file or SQLite database. Enables future tracking, analytics, and admin view.

4. Generate PDF Report

Generate a downloadable PDF report with crop prediction result and input values. Useful for records or offline sharing.

5. Auto-fill Weather

Use user's city or location (via dropdown or geolocation API) + OpenWeatherMap API to pre-fill temperature & humidity inputs.

6. Admin View Page

Create a separate page where admin can view all stored predictions, with filters/search by crop or date.