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Program 15 - Django Weather App

AIM To develop a weather application frontend using Django templating that displays current weather information along with a line chart showing past 5 days' temperature trends using Chart.js.

DESCRIPTION This experiment demonstrates how to build a weather app using Django templates and Chart.js for visualization. The app fetches weather data, including current temperature, description, and icon, and renders it dynamically on a webpage. It also displays historical temperature data for the past 5 days as a line chart. This project is ideal for beginners to learn Django templating, integration of JavaScript libraries like Chart.js, and dynamic data visualization on the frontend.

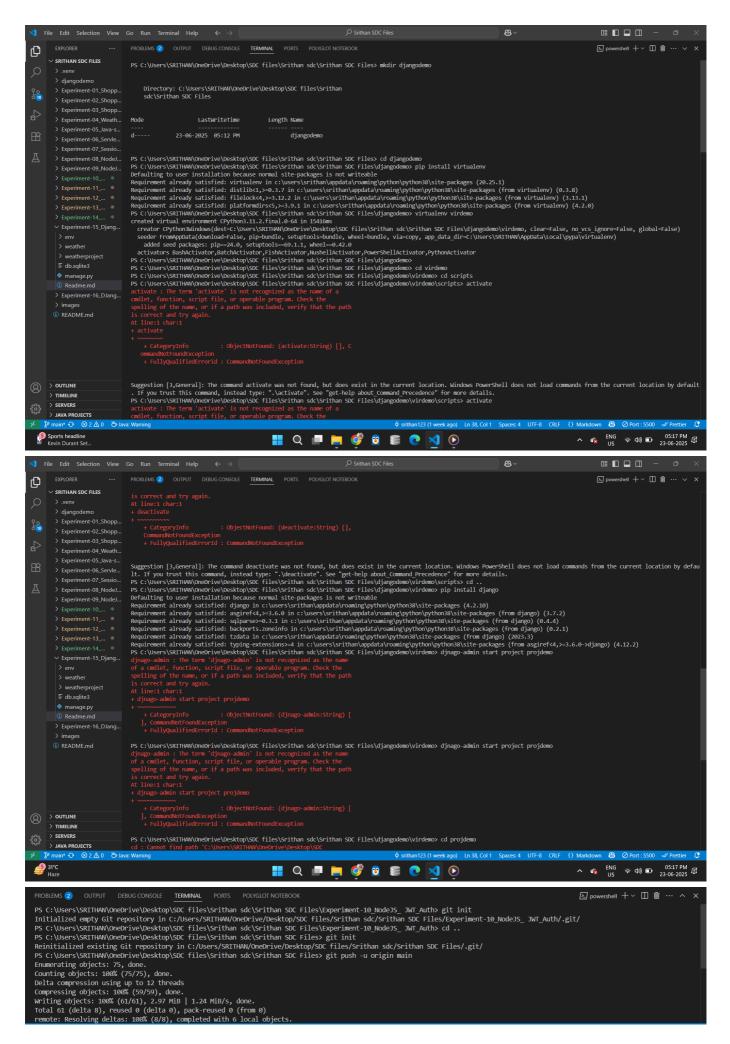
PROJECT STRUCTURE weather-app/ $ \hspace{.1cm} $ templates/ $ \hspace{.1cm} $ index.html # Main HTML template with Django
template tags and Chart.js integration — static/ — (optional static files like CSS or JS if any) —
views.py # Django view to pass weather data to template
settings.py # Django project settings L

INSTALLATION & SETUP PREREQUISITES • Python 3.x • Django installed (pip install django) • Basic knowledge of Django templating and Python • Chart.js included via CDN (no extra installation needed)

STEPS TO RUN THE PROJECT 1.Create Django Project & App django-admin startproject weather_project cd weather_project python manage.py startapp weather_app

2.Setup URL and Views Add URL route to render the weather template. Create view function to fetch and pass weather data (current + historical) as context. 3.Create Template Place index.html inside templates/ folder. Use Django templating tags to insert weather data into the HTML and JavaScript. 4.Run the Server python manage.py runserver

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5. Visit in Browser Open your browser and go to: http://127.0.0.1:8000/

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