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**Weather App Project**

Weather App Documentation

# Introduction

This Weather App is a responsive web application built using Flask (Python) for the backend and HTML/CSS/JavaScript for the frontend. It fetches real-time weather data from the Open-Meteo API and provides users with current weather and a 7-day forecast for any city they search.

# Features

- User-friendly and responsive design

- Dark mode toggle for accessibility and comfort

- City search functionality with recent searches displayed as clickable tiles

- Real-time weather information and 7-day forecast

- Health activity suggestions (e.g., running, walking) based on weather conditions

# How It Works

1. The user enters a city name in the input box and clicks the 'Search' button.  
2. The app sends a POST request to the Flask server's /geocode endpoint to get the latitude and longitude of the city.  
3. It then fetches weather data from the Open-Meteo API using the coordinates through the /weather endpoint.  
4. The frontend displays the current weather, activity suggestions, and a 7-day forecast.  
5. Each searched city is stored and shown as a tile for quick future access.

# Installation Instructions

1. Make sure Python is installed on your system.

2. Extract the downloaded weather\_app.zip file.

3. Navigate to the extracted folder in your terminal or command prompt.

4. Install required dependencies by running:

pip install flask requests

5. Start the Flask app by running:

python app.py

# Accessing the App

Once the Flask app is running, open your web browser and go to:  
http://127.0.0.1:5000/  
From here, you can use the search bar to check the weather in any city of your choice.