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Project Name –

Weather Application

Purpose of this project –

Provide real-time weather updates for any location
Displays current temperature, humidity, wind speed, and weather conditions.

Technologies Used -

- **HTML:** Structure and layout of the application.
- **CSS:** Styling and responsive design for different devices.
- **JavaScript:** Handling API calls and dynamic data updates.
- **Weather API:** Fetches real-time weather data.

Working with WeatherAPI –

API Provider and Endpoint:

- **Provider:** WeatherAPI
- **Endpoint:** https://api.weatherapi.com/v1/current.json
- **Parameters:** key (API key), q (city name).

Data Fetching Process:

- fetchWeather(city): An asynchronous function that sends a request to the WeatherAPI endpoint

JSON Response Parsing:

- The JSON data structure includes location (for city name) and current (for weather details like temperature, humidity, wind speed).

Feature of this Application –

City Search: Allows users to search by entering a city name and clicking a button to fetch data.
Weather Details: Displays temperature, condition (sunny, rainy), humidity, and wind speed.
Dynamic Data: Updates instantly when new city data is requested.

Future Enhancements –

- Adding a weekly forecast option.
- Showing icons for weather conditions and implementing transitions.

Project Implementation

Weather App

| Ghaziabad | | Get Weather |

Weather in Ghaziabad

Temperature: 24.2 °C

Condition: Mist

Humidity: 83%

Wind Speed: 5.4 kph

Weather App

| Delhi | | Get Weather |

Weather in Delhi

Temperature: 12.4 °C

Condition: Clear

Humidity: 42%

Wind Speed: 12.6 kph

Weather App

| Jaipur | | Get Weather |

Weather in Jaipur

Temperature: 24.1 °C

Condition: Mist

Humidity: 65%

Wind Speed: 7.6 kph

THANK YOU