**Weather dashboard project**

**Name: Shrividhya T**

**Reg.No: 20221301506239**

**College Name: Thiruvalluvar college**

**Class: Bsc Computer science**

**Code:** [**http://127.0.0.1:5500/index.html**](http://127.0.0.1:5500/index.html)

**Github:** [**https://github.com/Shriividhya/Weather.git**](https://github.com/Shriividhya/Weather.git)

**Weather Application Explanation**

This is a weather that allows users to search for and view the current weather information for any city worldwide. The application fetches data from the OpenWeather API (or another free weather API) to provide up-to-date details such as temperature, humidity, and weather description.

Key Features:

**City Search:**

Users can input the name of any city in the world to fetch real-time weather data.

Weather Data Display:

**The application shows:**

**Temperature:** The current temperature in either Celsius (°C) or Fahrenheit (°F).

**Humidity:** The percentage of moisture in the air.

**Weather Description**: A brief summary (e.g., clear skies, cloudy, rainy).

**Responsive UI:** The interface is designed using HTML, CSS, and JavaScript (or React.js for a more dynamic, component-based approach).

The layout adapts to different screen sizes (responsive design), ensuring the app works seamlessly on mobile, tablet, and desktop devices.

**Error Handling**: If a user enters an invalid city name or the API fails to return data, the application gracefully handles the error by showing a clear error message (e.g., "City not found").

**Free Hosting:** The app is hosted on Netlify, Render, or Railway (using their free-tier hosting options), making it accessible for anyone on the web.

**GitHub Repository**: The project is stored on GitHub for version control and collaboration. The repository includes detailed documentation in the README file, explaining the app’s setup, how to use it, and any necessary dependencies.

**How it Works:**

The user enters the name of a city into the search bar.

The application makes a request to the OpenWeather API (or another chosen API) using the city name.

It fetches the weather data and displays it on the screen.

If the city is not found or if there’s an issue with the request, the app shows an error message.

**Technologies Used:**

**Frontend:** HTML, CSS, JavaScript (or React.js)

**API Integration:** OpenWeather API (or any free weather API)

**Deployment:** Hosted on Netlify (or Render, Railway)

**Version Control:** GitHub for code management