WEATHER PROJECT

PROJECT 2

PROJECT DESCRIPTION:

Weather App project using HTML, CSS, and JavaScript, which fetches real-time weather data using the OpenWeatherMap API.

🌧️ Weather App Overview Features:

- User inputs a city name.

- Fetches real-time weather from OpenWeatherMap.

- Displays temperature, weather condition, and more.

📁 Project Structure:

```
weather-app/
│
├── index.html
├── style.css
└── script.js
```

HTML CODE:

```html
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1">
  <title>Weather App</title>
  <link rel="stylesheet" href="style.css">
</head>
<body>
  <div class="weather-container">
    <h1>Weather App</h1>
    <input type="text" id="city-input" placeholder="Enter city name">
    <button onclick="getWeather()">Get Weather</button>
    <div id="weather-result" class="result"></div>
  </div>
  <script src="script.js"></script>
</body>
</html>
```

CSS CODE:

```css
body
 {
   font-family: Arial, sans-serif;
   background: linear-gradient(to top right, #6dd5fa, #2980b9);
   color: #fff;
   text-align: center;
   padding: 40px;
 }
.weather-container
{
  background: rgba(255, 255, 255, 0.1);
  padding: 30px;
  border-radius: 10px;
  display: inline-block;
}
```

```css
Input
{
  padding: 10px;
  border-radius: 5px;
  border: none;
  width: 200px;
}
button
{
  padding: 10px 15px;
  margin-left: 10px;
  border: none;
  border-radius: 5px;
  background-color: #fff;
  color: #2980b9;
  cursor: pointer;
}
.result
{
  margin-top: 20px;
  font-size: 18px;
}
```

```javascript
const apiKey = 'YOUR_API_KEY_HERE'; // Get from https://openweathermap.org/api

async function getWeather() {
    const city = document.getElementById('city-input').value;
    const result = document.getElementById('weather-result');

    if (!city) {
        result.innerHTML = 'Please enter a city name.';
        return;
    }

    const url =
`https://api.openweathermap.org/data/2.5/weather?q=${city}&appid=${apiKey}&units=metric`;

    try {
        const response = await fetch(url);
        if (!response.ok) throw new Error('City not found');
        const data = await response.json();

        result.innerHTML = `
            <h2>${data.name}, ${data.sys.country}</h2>
            <p><strong>Temperature:</strong> ${data.main.temp} °C</p>
            <p><strong>Condition:</strong> ${data.weather[0].description}</p>
            <p><strong>Humidity:</strong> ${data.main.humidity}%</p>
            <p><strong>Wind Speed:</strong> ${data.wind.speed} m/s</p>
        `;
    } catch (error) {
        result.innerHTML = `Error: ${error.message}`;
    }
}
```

🔑 How to Run

1. Replace YOUR_API_KEY_HERE with your OpenWeatherMap API key.

2. Open index.html in a browser.

3. Enter a city and see the weather!