

2. Build a Weather Info Viewer using Fetch API and Promises (OpenWeatherMap API); manage Git commits and pushes.

index.html

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Simple Weather Viewer</title>
  <link
href="https://fonts.googleapis.com/css2?family=Inter:wght@400;600&display=swap"
  rel="stylesheet">
  <link href="styles.css" rel="stylesheet">
</head>
<body>
  <div class="weather-container">
    <h1 class="weather-app-title">Weather App ✨</h1>
    <input type="text" id="cityInput" placeholder="Enter city name..."
class="city-input">
    <button id="getWeatherBtn" class="get-weather-button">Get
Weather</button>
    <div id="weatherInfo" class="weather-info">
      <!-- Weather information will be displayed here -->
      <p>Enter a city name and click "Get Weather" to see the current
conditions.</p>
    </div>
  </div>
  <script src="script.js"></script>
</body>
</html>
```

styles.css

```
/* General Body Styling */
body {
  font-family: 'Inter', sans-serif;
  background-image:
url("https://static.vecteezy.com/system/resources/previews/056/635/420/non_2x/
rainy-day-wallpaper-hd-photo.jpeg");
  background-position: center;
  display: flex;
  justify-content: center;
  align-items: center;
  min-height: 100vh; /* Full viewport height */
  margin: 0;
  color: #334155; /* Dark gray text */
}
```

```

}

/* Container for the weather app */
.weather-container {
  background-color: #ffffff; /* White background */
  padding: 2rem;
  border-radius: 1rem; /* Rounded corners */
  box-shadow: 0 10px 15px -3px rgba(0, 0, 0, 0.1), 0 4px 6px -2px
  rgba(0, 0, 0, 0.05); /* Soft shadow */
  text-align: center;
  width: 90%; /* Responsive width */
  max-width: 400px; /* Max width for larger screens */
}

/* Heading for the app */
.weather-app-title {
  font-size: 2rem; /* h1 size */
  font-weight: 600; /* Semi-bold */
  margin-bottom: 1.5rem; /* Space below title */
  text-align: center;
}

/* Input field styling */
.city-input {
  padding: 0.75rem 1rem;
  border: 1px solid #cbd5e1; /* Light border */
  border-radius: 0.5rem; /* Rounded corners */
  width: calc(100% - 2rem); /* Full width minus padding */
  margin-bottom: 1rem; /* Space below input */
  font-size: 1rem;
  color: #475569; /* Darker gray text */
  transition: all 0.2s ease-in-out; /* Smooth transition for focus
*/
}

/* Button styling */
.get-weather-button {
  background-color: #3b82f6; /* Blue background */
  color: #ffffff; /* White text */
  padding: 0.75rem 1.5rem;
  border-radius: 0.5rem; /* Rounded corners */
  border: none;
  cursor: pointer;
  font-size: 1rem;
  font-weight: 600; /* Semi-bold */
  transition: background-color 0.2s ease-in-out, transform 0.1s
  ease-in-out; /* Smooth transitions */
}

```

```

/* Weather information display area */
.weather-info {
    margin-top: 1.5rem;
    padding-top: 1.5rem;
    border-top: 1px solid #e2e8f0; /* Top border */
    min-height: 100px; /* Prevents layout shifting when content
changes */
    display: flex;
    flex-direction: column;
    justify-content: center;
    align-items: center;
    text-align: center;
}

/* City and country name in weather info */
.weather-info h2 {
    font-size: 2rem;
    font-weight: 600;
    margin-bottom: 0.5rem;
    color: #1e293b; /* Very dark gray */
}

/* General text in weather info */
.weather-info p {
    font-size: 1.1rem;
    margin-bottom: 0.4rem;
    color: #475569; /* Dark gray text */
}

/* Temperature specific styling */
.weather-info .temp {
    font-size: 2.5rem;
    font-weight: 700; /* Bold */
    color: #0f172a; /* Even darker gray */
    margin-bottom: 0.5rem;
}

/* Error message styling */
.error-message {
    color: #ef4444; /* Red color */
    font-weight: 500; /* Medium weight */
    margin-top: 1rem;
}

```

script.js

```
// IMPORTANT: Replace 'YOUR_API_KEY' with your actual OpenWeatherMap API key.
// You can get a free API key from: https://openweathermap.org/api
const API_KEY = 'YOUR_API_KEY';
const weatherInfoDiv = document.getElementById('weatherInfo');
const cityInput = document.getElementById('cityInput');
const getWeatherBtn = document.getElementById('getWeatherBtn');

async function getWeatherData(city) {
    weatherInfoDiv.innerHTML = '<p>Loading weather data... 🌤️</p>';
    const apiUrl =
`https://api.openweathermap.org/data/2.5/weather?q=${city}&appid=${API_KEY}&units=metric`;

    try {
        const response = await fetch(apiUrl);
        if (!response.ok) {
            throw new Error(`HTTP error! status: ${response.status} - ${response.statusText}`);
        }
        const data = await response.json();
        displayWeather(data);
    } catch (error) {
        console.error('Error fetching weather data:', error);
        let errorMessage = 'Failed to fetch weather data. Please try again.';

        if (error.message.includes('404')) {
            errorMessage = 'City not found. Please check the spelling and try again.';
        } else if (error.message.includes('401')) {
            errorMessage = 'API Key is invalid or missing. Please ensure your API_KEY is correct.';
        }
        weatherInfoDiv.innerHTML = `<p class="error-message">${errorMessage} 😞</p>`;
    }
}

function displayWeather(data) {
    const cityName = data.name;
    const country = data.sys.country;
    const temperature = data.main.temp;
    const description = data.weather[0].description;
    const humidity = data.main.humidity;
    const windSpeed = data.wind.speed;
    const formattedDescription = description.charAt(0).toUpperCase() + description.slice(1);
    weatherInfoDiv.innerHTML = `
        <h2>${cityName}, ${country}</h2>
    `;
}
```

```

        <p class="temp">${temperature}°C</p>
        <p>${formattedDescription}</p>
        <p>Humidity: ${humidity}%</p>
        <p>Wind Speed: ${windSpeed} m/s</p>
    `;
}

// Add event listener to the button
getWeatherBtn.addEventListener('click', () => {
    const city = cityInput.value.trim(); //
    if (city) {
        getWeatherData(city);
    } else {
        weatherInfoDiv.innerHTML = '<p class="error-message">Please
enter a city name!</p>';
    }
});

// Optional: Allow pressing Enter key to trigger search
cityInput.addEventListener('keypress', (event) => {
    if (event.key === 'Enter') {
        getWeatherBtn.click(); // Simulate a click on the button
    }
});

// Initial message on load
window.onload = () => {
    weatherInfoDiv.innerHTML = '<p>Enter a city name and click "Get
Weather" to see the current conditions.</p>';
};

```

OUTPUT:

