

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 <img alt="sun icon" style="vertical-align: middle;"></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:

