### TITLE: CodTech IT Solutions Internship - Task Documentation: “Weather App” Using CSS, HTML, JAVASCRIPT.

**INTERN INFORMATION:**

**Name:** Namita Dhake

**ID:** C0D6890

**INTRODUCTION**

A weather app is a tool that uses science and technology to predict the weather conditions for a specific location and time. Weather apps can provide information on current weather conditions and forecasts, and can send instant alerts about weather updates. They can also provide information on sunrise and sunset times, rainfall times, and humidity levels.

**Implementation**

* JavaScript Framework: Utilize a modern JavaScript framework for building the frontend application.
* HTML/CSS: Use HTML5 and CSS3 for structuring and styling the user interface, ensuring compatibility with various web browsers.

**CODE EXPLAINATION**

**HTML Structure:**

Create the Weather App UI Structure using the HTML elements like <div>, <h1>, <input> and <button>. Embed all the essential CDN links for Icons, Fonts, etc

**CSS Styling:**

Once the structure is created, the styling properties for each element like padding, box-shadow, transition, attractive effects like hovering, etc are been applied.

**JavaScript Functionality:**

* In the main JavaScript file, the overall behavior of the application is been defined.
* Firstly, we are specifying the API URL of OpenWeatherMap. Then we are specifying the unique API key. By defaul,t the Weather of the Pune location is been shown when the application is loaded.
* Then by using the async function, we are returning the wwather of the city which is entered by the user. If the city is not valid, then an error message is been shown to the user.
* Once the details are fetched, then these details are been represented in the weatherShowFn().**Marking Tasks as Completed:**
* Utilizes event delegation by adding a click event listener to the list container (inputlist). When a task is clicked, the 'checked' class is toggled on the task, changing its appearance to indicate completion.

**CONCLUSION**

In conclusion, Weather apps can be useful for users, especially with the increasing use of smartphones. They can provide real-time weather updates, which can be crucial for planning daily activities. Weather forecasting projects can provide timely and accurate information about upcoming weather conditions to support decision-making across various sectors and to enhance public safety and well-being.

**OUTPUT**





