Monday, 30 September 2024

Assignment 7

Fetch Weather Data from an API and Display It on the UI

1. Objective:

   o Fetch weather data from an open API and display it on a simple webpage using HTML, CSS, and JavaScript.

2. Instructions:

   o Use the OpenWeatherMap API (https://openweathermap.org/api) to get weather data for a city.

   o Create a form where users can input a city name.

   o Fetch the weather data for the entered city when the form is submitted.

   o Display the following data on the UI:

      ▪ City name

      ▪ Current temperature

      ▪ Weather description (e.g., clear sky, rain)

      ▪ Wind speed

      ▪ Humidity

3. Steps:

   1. Create an API Key: Go to OpenWeatherMap, sign up, and get your API key.

   2. HTML: Create a form with an input field for the city and a button to fetch the data.

   3. CSS: Style the form and display areas for weather data.

   4. JavaScript:

      ▪ Use the fetch function to call the API endpoint for weather data.

      ▪ Update the DOM to show the weather details.

4. Bonus Task:

- ○ Display an icon representing the weather (e.g., sun, cloud, rain) using the icon data provided by the API.