TASK O4: WEATHER APP DETECTION

Index.html

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<title>Weather App</title>

<link rel="stylesheet" href="styles.css">

</head>

<body>

<div class="weather-app">

<h1>Weather App</h1>

<input type="text" id="cityInput" placeholder="Enter city name" />

<button id="getWeatherBtn">Get Weather</button>

<div id="weatherResult" class="weather-result"></div>

</div>

<script src="script.js"></script>

</body>

</html>

style.css

body {

display: flex;

justify-content: center;

align-items: center;

height: 100vh;

background-color: #e0f7fa;

font-family: Arial, sans-serif;

margin: 0;

}

.weather-app {

background: #ffffff;

padding: 20px;

border-radius: 10px;

box-shadow: 0 0 10px rgba(0, 0, 0, 0.2);

text-align: center;

}

#cityInput {

padding: 10px;

width: 200px;

border: 1px solid #ccc;

border-radius: 5px;

margin-right: 10px;

}

#weatherResult {

margin-top: 20px;

font-size: 18px;

}

.weather-result p {

margin: 5px 0;

}

script.css

const apiKey = 'YOUR\_API\_KEY'; // Replace with your OpenWeatherMap API key

const getWeatherBtn = document.getElementById('getWeatherBtn');

const cityInput = document.getElementById('cityInput');

const weatherResult = document.getElementById('weatherResult');

getWeatherBtn.addEventListener('click', () => {

const cityName = cityInput.value;

if (cityName) {

fetchWeather(cityName);

} else {

weatherResult.innerHTML = '<p>Please enter a city name.</p>';

}

});

function fetchWeather(city) {

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

fetch(apiUrl)

.then(response => {

if (!response.ok) {

throw new Error('City not found');

}

return response.json();

})

.then(data => {

displayWeather(data);

})

.catch(error => {

weatherResult.innerHTML = `<p>${error.message}</p>`;

});

}

function displayWeather(data) {

const { name, main, weather, wind } = data;

const weatherHTML = `

<h2>${name}</h2>

<p>Temperature: ${main.temp} °C</p>

<p>Weather: ${weather[0].description}</p>

<p>Wind Speed: ${wind.speed} m/s</p>

`;

weatherResult.innerHTML = weatherHTML;

}