Javascript

const apiKey = 'YOUR\_API\_KEY';

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

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

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

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

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

const city = cityInput.value;

if (city) {

getWeatherData(city);

} else {

showError('Please enter a city name.');

}

});

async function getWeatherData(city) {

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

try {

const response = await fetch(url);

if (!response.ok) {

throw new Error('City not found');

}

const data = await response.json();

displayWeather(data);

} catch (error) {

showError(error.message);

}

}

function displayWeather(data) {

const { main, weather } = data;

const temperature = main.temp;

const humidity = main.humidity;

const description = weather[0].description;

const icon = weather[0].icon;

weatherResult.innerHTML = `

<h2>${data.name}</h2>

<img src="http://openweathermap.org/img/wn/${icon}.png" alt="${description}">

<p>Temperature: ${temperature} °C</p>

<p>Humidity: ${humidity} %</p>

<p>Description: ${description.charAt(0).toUpperCase() + description.slice(1)}</p>

`;

errorMessage.textContent = '';

}

function showError(message) {

errorMessage.textContent = message;

weatherResult.innerHTML = '';

}