**Q: 14**

**Title:**

L1 - Debug a Weather Fetch App

**Problem Statement:**

You are provided with a partially working weather app that fetches current weather data for a city using the **OpenWeather API** (https://api.openweathermap.org/data/2.5/weather). However, there are bugs in the code:

1. The app fails to fetch data correctly for some city names.
2. Error handling for invalid city names or network failures is missing.
3. The response data is not displayed properly on the page.

**Your Task:**

Debug and fix the code to ensure it:

1. Fetches weather data correctly for any valid city name.
2. Displays a user-friendly error message for invalid city names or failed requests.
3. Dynamically shows the city name, temperature, and weather description on the page.

**Provided Code:**

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

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

const weatherDisplay = document.getElementById('weather');

weatherForm.addEventListener('submit', (e) => {

e.preventDefault();

const city = cityInput.value;

fetchWeather(city);

});

async function fetchWeather(city) {

const url = `https://api.openweathermap.org/data/2.5/weather?q=${city}&appid=YOUR\_API\_KEY`;

const response = await fetch(url);

const data = await response.json();

weatherDisplay.textContent = `Temperature in ${city}: ${data.main.temp}°C`;

}

**Key Requirements:**

* Use proper error handling to manage network errors and invalid city names.
* Ensure user input is validated (e.g., empty strings are not accepted).
* Replace YOUR\_API\_KEY with your OpenWeather API key.

**Submission Guidelines:**

* Submit your Masai Git directory link with the fixed code.
* Include comments explaining what changes were made and why.