

Task: Weather Dashboard Development

Objective:

Create a responsive weather dashboard that allows users to search for weather information by city. The dashboard should display real-time weather data and handle errors gracefully.

Requirements:

1. HTML Structure:

- Implement a search bar for users to input a city name.
- Display the following weather information:
 - Temperature
 - Humidity
 - Wind Speed
 - Weather Icon
 - Timestamp for the last updated time
- Include an area to show error messages if the city is not found.

2. CSS Styling:

- Style the dashboard to achieve a modern and clean look.
- Use distinct sections for each piece of information (e.g., temperature, humidity).
- Ensure the design is responsive for both mobile and desktop views.
- Utilize colors or icons to indicate weather conditions (e.g., sun icon for sunny weather, cloud icon for cloudy weather).

3. JavaScript Functionality:

- **API Integration:** Use a weather API like OpenWeatherMap or WeatherAPI to fetch real-time weather data.
- **Real-Time Search:** Fetch and display weather data for the city entered in the search bar.
- **Error Handling:** Implement user-friendly error messages for invalid city entries or API issues.
- **(Optional) Automatic Refresh:** Set up automatic refreshing of weather data every 5 minutes.
- **(Optional) Background Change:** Display a background image or color that changes based on the weather conditions.

4. Deployment:

- Host the project on a platform like Netlify, Firebase, or Heroku.
- Ensure the GitHub repository is public and share the link.

Deliverables:

- A zip file containing the HTML, CSS, and JavaScript files.
- A link to the live deployed application.
- A link to the public GitHub repository.

Deadline:

15-11-2024

Note: This task is an excellent opportunity to work with APIs, handle asynchronous data, and implement real-time updates.