Practical No. 6

Study and implementation of ReactJs

Perform following problem statements using ReactJs

Problem Statement 1: Building a weather app

- The app should have a responsive user interface that works well on both desktop and mobile devices.
- Users should be able to search for a city by name and see the current temperature, weather conditions, and wind speed for that location.
- Users should be able to switch between Celsius and Fahrenheit units of measurement.
- The app should use a public weather API (such as OpenWeatherMap) to retrieve the current weather data.
- The app should display appropriate error messages if the API returns an error or the user's search query does not match any known locations.
- The app should include a "recent searches" feature that displays a list of the last five cities that the user has searched for.
- The candidate should use appropriate error handling and validation to ensure that the application is robust and user-friendly.

Problem Statement 2: A Simple Counter Component

Requirements

- The component should be named Counter and display a number.
- The component should have two buttons: one that increments the number by 1 and one that decrements the number by 1.
- The component should not allow the number to go below 0.
- The component should have a default value of 0.

Example Input/Output

- Input: The user clicks the increment button.
- Output: The number displayed by the component increases by 1.
- Input: The user clicks the decrement button.
- Output: The number displayed by the component decreases by 1.
- Input: The number displayed by the component is 0, and the user clicks the decrement button.
- Output: The number displayed by the component remains at 0 and does not go below 0.

Note:

1. Create a **document** of the above website with screenshots.
2. Scan the document and **create a pdf file** with **"ExamSeatNum_P#PS#" as its name**.
3. Upload the file on the **WCE Moodle** before the given deadline.