

React Assignments: [Write test cases for every component]

- 1) Create a simple “Hello World” application in React JS
- 2) Create a React application that displays the list of employees. Refer the below image.



A screenshot of a web browser window. The address bar shows 'localhost:3000'. The page displays a table with two columns: 'Name' and 'Job'. The table contains five rows of data.

Name	Job
Charlie	Janitor
Mac	Bouncer
Dee	Aspiring actress
Dennis	Bartender

- 3) Create a React application with following requirements. Refer the below image.

Add an employee with a name and a job to the table.

Name	Job	Remove
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Add New Employee

Name

Job

- a. Add new employee. After successful addition of new employee, It will be displayed in the table.

Add an employee with a name and a job to the table.

Name	Job	Remove
------	-----	--------

Add New Employee

Name

Job

Submit

Add an employee with a name and a job to the table.

Name	Job	Remove
Amit Fegade	Consultant	Delete

Add New Employee

Name

Job

Submit

b. Add few more employees.

Add an employee with a name and a job to the table.

Name	Job	Remove
Amit Fegade	Consultant	<button>Delete</button>
Alex Browning	Manager	<button>Delete</button>
Jason Taylor	Trainer	<button>Delete</button>

Add New Employee

Name

Job

Submit

- c. If I click on the Delete button, record of that specific employee should be deleted. For example, I delete record of Alex Browning, then list of employees should look like this.

Add an employee with a name and a job to the table.

Name	Job	Remove
Amit Fegade	Consultant	<button>Delete</button>
Jason Taylor	Trainer	<button>Delete</button>

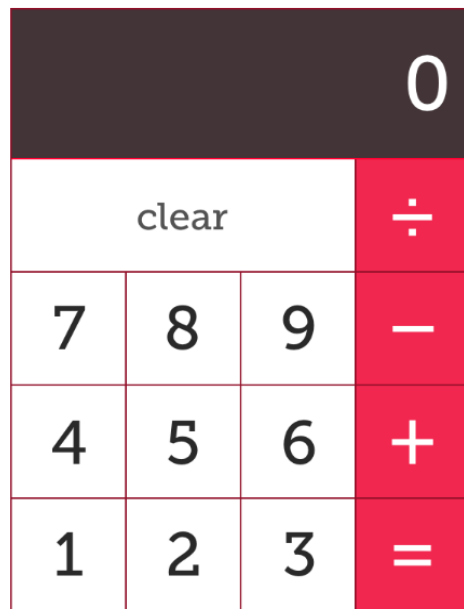
Add New Employee

Name

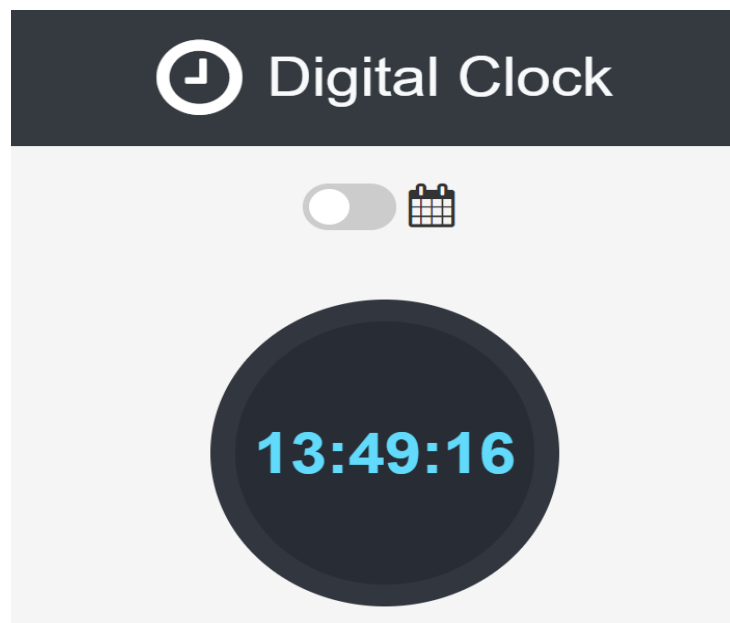
Job

Submit

- 4) Create an application for simple calculator



5) Create React application to develop digital clock.



If I toggle the button, it should display the date.



6) Create React application to demonstrate routing. Create a navigation bar with 4 links.



You chose **HOME**

Navigate between the links.



You chose **PROJECTS**

You chose

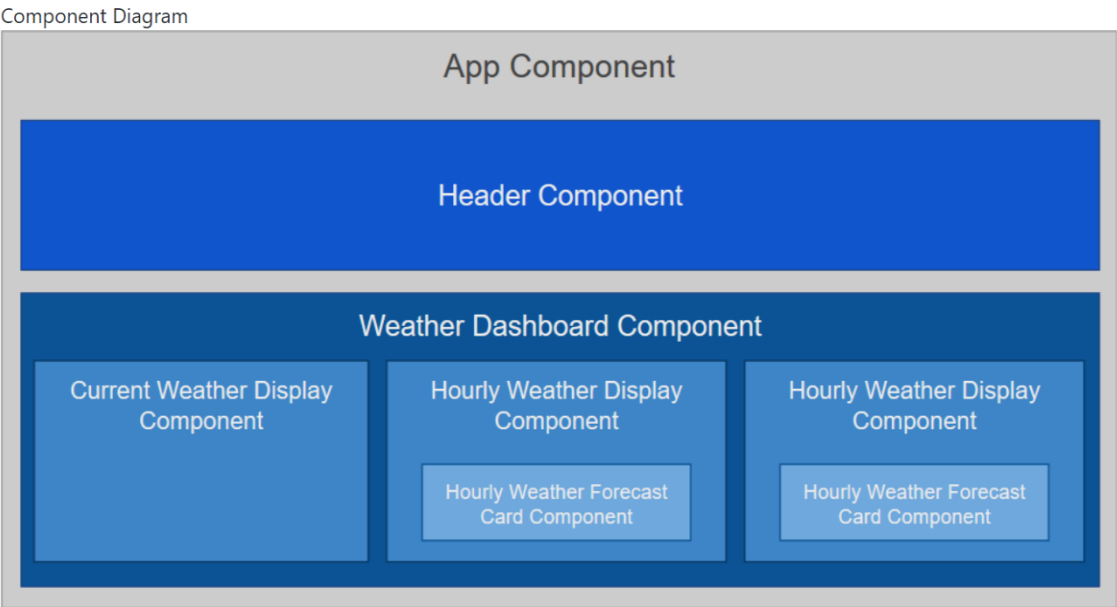
SERVICES

7) Demonstration of consuming services over HTTP.

Design a weather application that displays the current weather, daily forecasts, and hourly forecasts based on your current geolocation.

The weather application is composed of the following components:

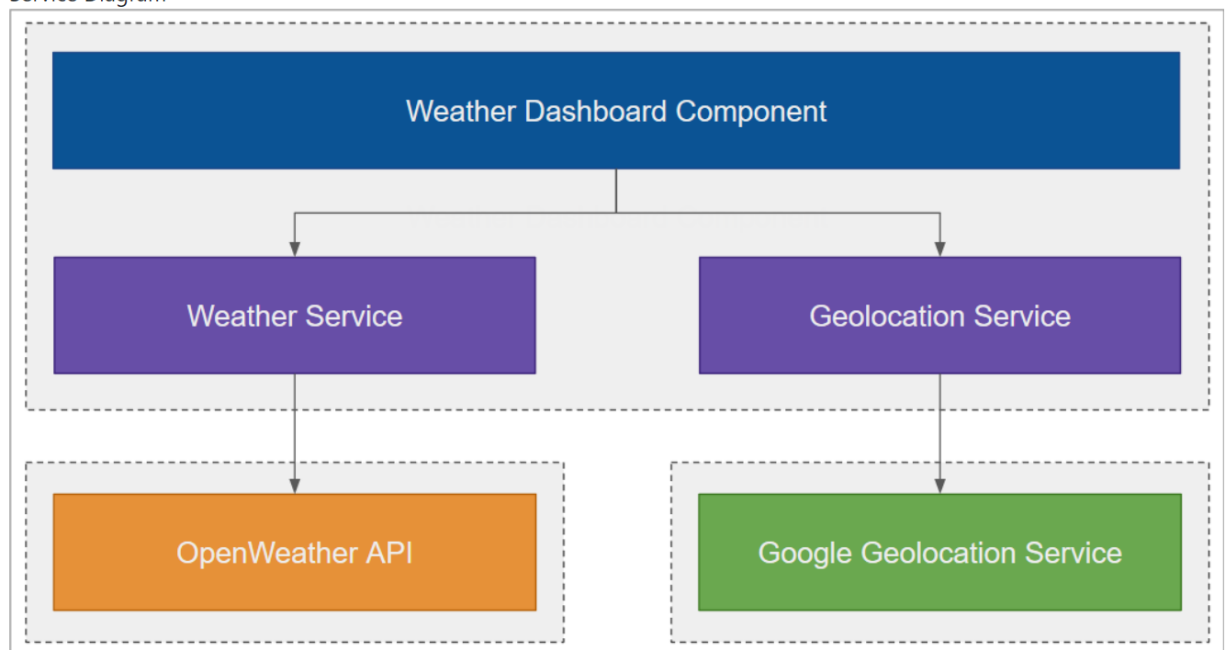
- Header - A heading that displays application title
- WeatherDashboard - The primary (root) component that manages state for all underlying components. It is also responsibly for connecting to and retrieving data from a weather and geolocation service.
- CurrentWeatherDisplay - Displays weather information for the current point in time based on current location.
- DailyWeatherDisplay - Displays a 7 day weather forecast in the form of a scrollable carousel.
- DailyWeatherForecastCard - Displays weather summary for a given day
- HourlyWeatherDisplay - Displays a 24 hour weather forecast in the form of a scrollable carousel.
- HourlyWeatherForecastCard - Displays weather summary for a given hour



The following services are used to obtain weather and location data:

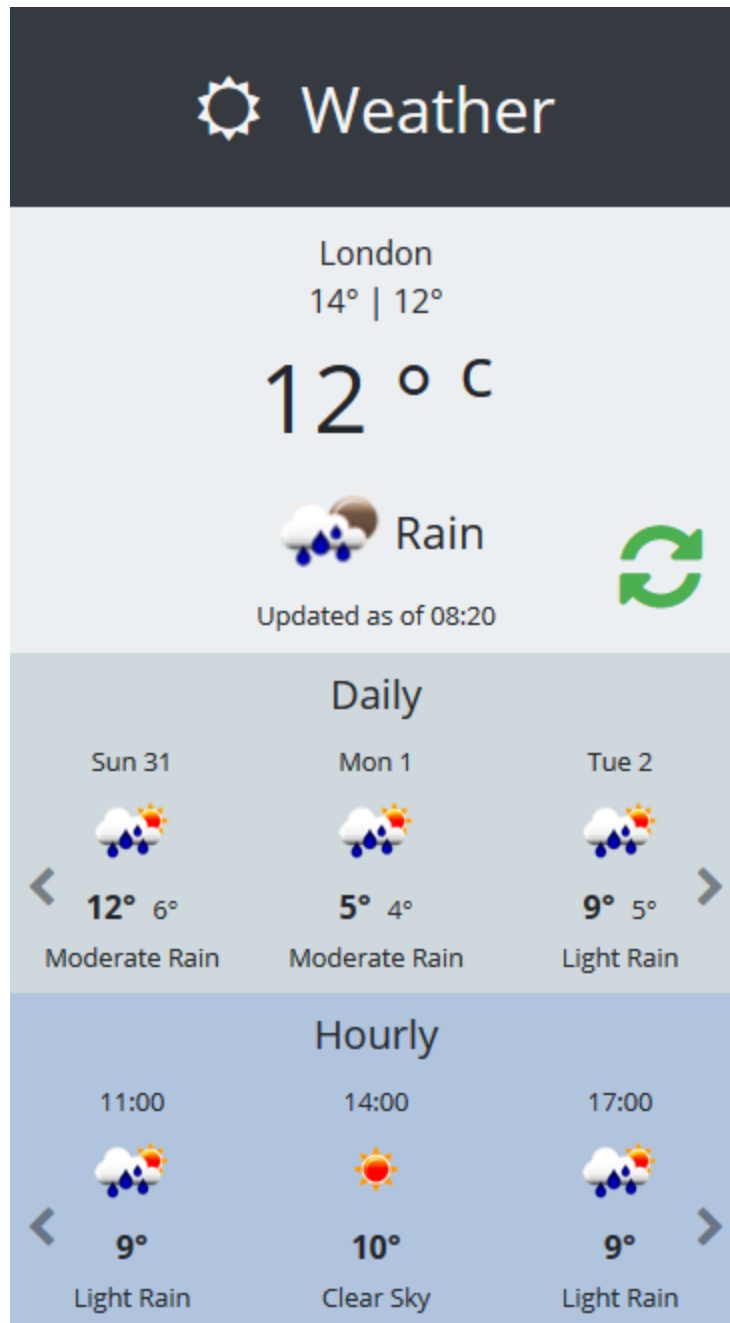
- WeatherService - A wrapper that is responsible for integrating with the [OpenWeather Api](#). It provides an interface that allows one to obtain current weather, daily forecast, and hourly forecast information.
- GeolocationService - A wrapper that is responsible for integrating with the [Google Geolocation API](#). It provide an interface that allows one to obtain the current GPS coordinates. These coordinates are used by the *WeatherService* to obtain weather information.

Service Diagram



Features:

- Display current weather
- Display 7 day weather forecast
- Display 24 hour weather forecast



APIs should be used in project

- 1) Open weather API : <https://openweathermap.org/>
- 2) Google Geolocation API:
<https://developers.google.com/maps/documentation/geolocation/intro>