Exercise 3 – Creating Components using JSX

Objective

To be able to modify a standard ReactJS project to allow the use of JSX files

To be able to create components in JSX and render them to the browser

Overview

This exercise takes the same project set up as defined in Exercise 1 and modifies it to be able to use JSX files for creating components. Once this has been done, a component is then created in JSX and rendered to the browser.

Part 1 – Modifying the Project

1.1. In a suitable text editor, navigate to the **EG02_CreatingComponentsWithJSX** project folder and then open the **starter** folder.

Part 2 – Creating the JSX Component

- 2.1. In the **starter** folder, create a file called **App.jsx** and open it for editing in a suitable text editor. This will be the file in which we create the component to render to the screen.
- 2.2. This file needs access to the **react** library, so use an **import** statement for the React class.
- 2.3. Declare two exported classes called Header and Content that extend the React.Component class. The classes should have render methods that produce appropriate content.
 - Remember, if you are intending to use more than one element in a component, then this needs to be wrapped in an outer element such as a <div>.

Part 3 – Modifying the main.js and index.html files to use App.jsx

- 3.1. Navigate to the **main.js** file and open it in a suitable text editor.
- 3.2. Add an import statement so that access is granted to the Header and Content classes from **App.jsx**.
- 3.3. Rewrite the render method so that the Header component is deposited into a <header> element.
- 3.4. Add a second render method to place the Content component in an element with an id of content.
- 3.5. Modify the **index.html** file so that it has an empty <header> element and an empty <div> with the id of content.

Part 4 – Viewing the Application

4.1. To view the application, execute the following on the command line or terminal after navigating to the correct folder:

npm start

4.2. Open a browser and navigate to:

localhost:8080

The Header and the Content components that you have created should be visible on the screen.

Part 5 – Checking the Application Updates

- 5.1. Return to the **App.jsx** file and change the **Header** and **Content** components, saving it when you are done.
- 5.2. The browser should refresh automatically. If you have problems, call your instructor.

The solution to this exercise is provided in the folder solution(MultipleExport). The other solutions are alternate implementations that produce the same result.