COMP 9783 Front-end Development

Lab-4-1 - React Lists Lab. (1% of the course mark)

Name:

Student Number:

In this lab, students will learn how to effectively use lists and keys in React to render collections of data.

Lab objectives:

1. Understand how to use the map function to render a list of items dynamically.
2. Learn the importance of using unique keys for list items to ensure efficient rendering and updating.

Create a react app:

On **VSCode**, open the **terminal** and type the following commands:

1. On **VSCode**, open the **terminal** and type **npm create vite@latest react-list-app ----template react** and **press enter**. This should create a basic react app.
2. **Build** and **start the app** by typing:
    a. **cd react-list-app**
    b. **npm install**
    c. **npm run dev**
3. On the **src folder**, **delete** the following files: **App.css** and **index.css**.
4. On src/**main.jsx** delete this: **import './index.css'** and **save the changes**.
5. **Modify ./public/index.html** and **update** the **title** html code and **save the changes**:

```
<title>react-list-app</title>
```

6. Inside **src** create a folder named: **components**, we will use this to organize **function components**.

7. In class we have demonstrated how to use the following css frameworks:

    a. Bulma

    b. Bootstrap

    c. Tailwind

    d. Sakura

8. Feel free to **use any css framework** to **style your react app**.

9. **Implement** a **component** that will **display any list** and based on the **css framework of your choice**, use an **appropriate css component / element** to implement the list.

    a. Ensure that **unique keys** are **assigned** to the **parent element that repeats**.

    b. Ensure that there are **no errors** on the **browser console** when your **app is loaded**.

    c. You can use the following apps as reference:

        i. https://github.com/roderickkit-bernardo/Full-Stack-Files/tree/main/Frontend-Development/Code/Basic-App/react-basic-app

        ii. https://github.com/roderickkit-bernardo/Full-Stack-Files/tree/main/Frontend-Development/Code/React/react-list-app

Submission:

1. Inside the root folder of the app, **delete the node_modules folder**.

2. Create a **zip file** of the **app**.

3. Submit the **zip file** to **GBC - D2L**.