COMP 9783 Front-end Development

Lab-3-3 - React Component Lab. (1% of the course mark)

Name:

Student Number:

The React Component Lab is designed to provide an immersive, hands-on learning experience focused on mastering React components, the building blocks of React applications. Participants will explore functional components and learn best practices for creating reusable and efficient components.

Lab objectives:

- 1. Learn how to create functional-based components.
- 2. Use functional-based components to build reusable parts of a web app.

Create a react app:

- 1. On VSCode, open the terminal and type npm create vite@latest react-component-app
 - ----template react and press enter. This should create a basic react app.
- 2. **Build** and **start the app** by typing:
 - a. cd react-component-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-component-app</title>

- This lab will use bulma as the css frontend. To install bulma type: npm install bulma and press enter.
- 7. Overwrite **App.jsx** with the following code and **save the changes**:

- 8. Inside the **src** folder create a folder named: **components**.
- 9. Inside the components folder, create a file named: Content.jsx and add the following code below:

```
natoque penatibus et magnis dis parturient montes, nascetur ridiculus
    mus. Cras dui eros, viverra sed facilisis sit amet, vulputate
    fringilla diam. Nullam maximus ex a velit vehicula maximus. Curabitur
    molestie feugiat felis, a egestas neque venenatis at. Nunc mollis
    metus nec sapien venenatis, ac aliquet sapien porttitor. Aliquam sit
    amet mi nulla. Donec molestie aliquam luctus.

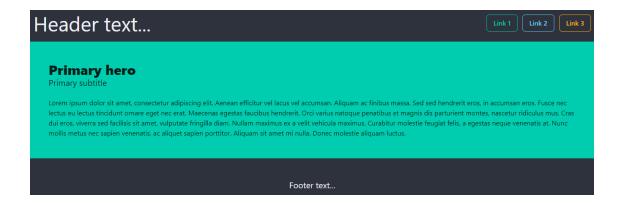
    </div>
    </section>
    );
}
export default Content;
```

10. Inside the components folder, create a file named: Footer.jsx and add the following code below:

11. Inside the **components folder**, create a file named: **Header.jsx** and add the following code below:

```
role="navigation"
     aria-label="main navigation"
     <div className="navbar-brand">
       <a className="navbar-item is-size-1" href="#fake">
         Header text...
       </a>
     </div>
     <div className="navbar-end">
       <div className="navbar-item">
         <div className="buttons">
           <a className="button is-primary is-outlined" href="#fake">
             Link 1
           </a>
            <a className="button is-info is-outlined" href="#fake">
             Link 2
           </a>
           <a className="button is-warning is-outlined" href="#fake">
             Link 3
           </a>
         </div>
       </div>
     </div>
   </nav>
 );
export default Header;
```

12. **Open** your **browser** and **navigate** to: http://localhost:5173/ this should display a web app (**see below**). Make sure that your app is working before proceeding to the next step.



- 13. Use: https://bulma.io as guide on making changes to the html codes of the following files: Content.jsx, Footer.jsx and Header.jsx. Save the changes when finished.
- 14. Navigate to http://localhost:5173/ and take a screenshot of the changes made.

Submission:

- 1. Use the html template: index.html and write HTML codes for each screenshot:
 - a. Write a title and short description.
 - b. Display the screenshot.

Note: Feel free to use any component from a CSS framework of your choice.

- 2. Create a new folder named **html** and copy all the **HTML**, **CSS** and **PNG** files used in the previous step.
- 3. Create a zip file of the html folder.
- 4. Submit the **zip file** to **GBC D2L**.