2.ReactJS-HOL

Objectives

• Explain React components

• Identify the differences between components and JavaScript functions

• Identify the types of components

• Explain class component

• Explain function component

• Define component constructor

• Define render() function

In this hands-on lab, you will learn how to:

• Create a class component

• Create multiple components

• Render a component

Prerequisites

The following is required to complete this hands-on lab:

• Node.js

• NPM

• Visual Studio Code

Create a react app for Student Management Portal named StudentApp and create a component named Home which will display the Message "Welcome to the Home page of Student Management Portal". Create another component named About and display the Message "Welcome to the About page of the Student Management Portal". Create a third component named Contact and display the Message "Welcome to the Contact page of the Student Management Portal". Call all the three components.

Code:

Home.js

```jsx
import React,{Component} from 'react';
class Home extends Component{
    render(){
        return(
        <div>
        <h3>Welcome to Home Page of Student Management Portal</h3>
        </div>
        );
    }
}
export default Home;
```

About.js

```jsx
import React,{Component} from 'react';
 class About extends Component{
    render(){
        return(
        <div>
        <h3>Welcome to About Page of Student Management Portal</h3>
        </div>
        );
    }
}
export default About;
```

Contact.js

```jsx
import React,{Component} from 'react';
class Contact extends Component{
    render(){
     return(
        <div>
        <h3>Welcome to Contact Page of Student Management Portal</h3>
        </div>
        );
    }
}
export default Contact;
```

App.js

```javascript
import logo from './logo.svg';
import './App.css';
import Home from './components/Home';
import About from './components/About';
import Contact from './components/Contact';
function App() {
  return (
    <div className="App">
      <Home />
      <About />
      <Contact />
    </div>
  );
}

export default App;
```

Terminal Output:

```
PS E:\Cognizant-Java FSE\Week 6\Code\2.ReactJS-HOL\studentapp> npm start

> studentapp@0.1.0 start
> react-scripts start

(node:21096) [DEP_WEBPACK_DEV_SERVER_ON_AFTER_SETUP_MIDDLEWARE] DeprecationWarning: 'onAfterSetupMiddleware' option is deprecated. P
ease use the 'setupMiddlewares' option.
(Use `node --trace-deprecation ...` to show where the warning was created)
(node:21096) [DEP_WEBPACK_DEV_SERVER_ON_BEFORE_SETUP_MIDDLEWARE] DeprecationWarning: 'onBeforeSetupMiddleware' option is deprecated.
Please use the 'setupMiddlewares' option.
Starting the development server...
Compiled successfully!

You can now view studentapp in the browser.

  Local:            http://localhost:3000
  On Your Network:  http://192.168.31.221:3000

Note that the development build is not optimized.
To create a production build, use npm run build.

webpack compiled successfully
```

Browser Output:

Welcome to Home Page of Student Management Portal

Welcome to About Page of Student Management Portal

Welcome to Contact Page of Student Management Portal