**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

**Notes**

Estimated time to complete this lab: **30 minutes.**

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.

**index.html**

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="utf-8" />

<meta name="viewport" content="width=device-width, initial-scale=1" />

<title>Student Management Portal</title>

</head>

<body>

<noscript>You need to enable JavaScript to run this app.</noscript>

<div id="root"></div>

</body>

</html>

**index.js**

import React from 'react';

import ReactDOM from 'react-dom/client';

import App from './App';

const root = ReactDOM.createRoot(document.getElementById('root'));

root.render(<App />);

**App.js**

import React from 'react';

import Home from './Components/Home';

import About from './Components/About';

import Contact from './Components/Contact';

function App() {

return (

<div style={{ textAlign: 'center', marginTop: '50px' }}>

<Home />

<About />

<Contact />

</div>

);

}

export default App;

**Home.js**

import React from 'react';

class Home extends React.Component {

render() {

return <h3>Welcome to the Home Page of Student Management Portal</h3>;

}

}

export default Home;

**About.js**

import React from 'react';

class About extends React.Component {

render() {

return <h3>Welcome to the About Page of Student Management Portal</h3>;

}

}

export default About;

**Contact.js**

import React from react;

class Contact extends React.Component {

render() {

return <h3>Welcome to the Contact Page of Student Management Portal</h3>;

}

}

export default Contact;

**package.json**

{

"name": "studentapp",

"version": "0.1.0",

"private": true,

"dependencies": {

"react": "^18.2.0",

"react-dom": "^18.2.0",

"react-scripts": "5.0.1"

},

"scripts": {

"start": "react-scripts start",

"build": "react-scripts build",

"test": "react-scripts test",

"eject": "react-scripts eject"

},

"eslintConfig": {

"extends": [

"react-app",

"react-app/jest"

]

},

"browserslist": {

"production": [

">0.2%",

"not dead",

"not op\_mini all"

],

"development": [

"last 1 chrome version",

"last 1 firefox version",

"last 1 safari version"

]

}

}

**OUTPUT**

**A screenshot of a computer

AI-generated content may be incorrect.**