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**2.ReactJS**

**React components**

* A React component is a reusable, independent piece of UI.
* Think of it like a LEGO block—you combine components to build a full application.
* Each component can have HTML (UI), CSS (styling), and JavaScript (logic).

**Class Component**

* Defined using an ES6 class.
* Must extend React.Component.
* Can use state, props, and lifecycle methods.
* Must include a render() method that returns JSX.

**Function Component**

* A simpler way to create components using plain functions.
* Accepts props as an argument and returns JSX.
* Can use React Hooks (useState, useEffect, etc.) for state and side effects.

**render() function**

* Mandatory in every class component.
* Describes what should be displayed in the UI.
* Returns JSX.
* React calls render() whenever the component’s state or props change.

**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.**

**Home.js**

import React, { Component } from 'react';

class Home extends Component {

render() {

return (

<div>

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

</div>

);

}

}

export default Home;

**About.js**

import React, { Component } from 'react';

class About extends Component {

render() {

return (

<div>

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

</div>

);

}

}

export default About;

**Contact.js**

import React, { Component } from 'react';

class Contact extends Component {

render() {

return (

<div>

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

</div>

);

}

}

export default Contact;

**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>

<Home />

<About />

<Contact />

</div>

);

}

export default App;

**Outputs:-**

