***Module (React Js) - 6***

**1). Create React app with modules and lazy loading (Admin-user module with child Router and outlet)?**

**Ans.** Create React app with modules and lazy loading (Admin-user module with child Router and outlet)

**Step 1:** Create a new React app using Create React App.

npx create-react-app lazy-loading-app

cd lazy-loading-app

**Step 2:** Install the necessary dependencies.

npm install react-router-dom

**Step 3:** Create your project structure. Organize your project like this:

src/

- modules/

- Admin/

- Admin.js

- User/

- User.js

- App.js

- index.js

**Step 4:** Define your modules.

In Admin.js and User.js, you can define the components and routes for the respective modules.

Here's an example structure for Admin.js

// Admin.js

import React from 'react';

import { Switch, Route, Link } from 'react-router-dom';

import AdminHome from './AdminHome';

import AdminSettings from './AdminSettings';

function Admin() {

return (

<div>

<h2>Admin Module</h2>

<nav>

<ul>

<li>

<Link to="/admin/home">Home</Link>

</li>

<li>

<Link to="/admin/settings">Settings</Link>

</li>

</ul>

</nav>

<Switch>

<Route path="/admin/home">

<AdminHome />

</Route>

<Route path="/admin/settings">

<AdminSettings />

</Route>

</Switch>

</div>

);

}

export default Admin;

**Step 5:** Set up routing in App.js.

// App.js

import React, { lazy, Suspense } from 'react';

import { BrowserRouter as Router, Route, Switch } from 'react-router-dom';

const Admin = lazy(() => import('./modules/Admin/Admin'));

const User = lazy(() => import('./modules/User/User'));

function App() {

return (

<Router>

<Suspense fallback={<div>Loading...</div>}>

<Switch>

<Route path="/admin" component={Admin} />

<Route path="/user" component={User} />

</Switch>

</Suspense>

</Router>

);

}

export default App;

**Step 6:** Render your app.

// index.js

import React from 'react';

import ReactDOM from 'react-dom';

import App from './App';

import './index.css';

ReactDOM.render(

<React.StrictMode>

<App />

</React.StrictMode>,

document.getElementById('root')

);

**Step 7:** Start your development server.

Run the app using npm start:

npm start