Module 9) React

Routing in React (React Router)

Question 1: What is React Router? How does it handle routing in single-page applications?

Answer:React Router is a library in React that lets you create navigation between different pages without reloading the whole website. In single-page applications (SPAs), it updates the URL and shows different components based on the route, without refreshing the page. This gives a smooth and fast user experience just like a normal multi-page website.

Question 2: Explain the difference between BrowserRouter, Route, Link, and Switch components in React Router.

Answer:BrowserRouter is the main component that sets up routing in your app using the browser's history. Route is used to define a path and the component to show for that path. Link is used to create clickable navigation links without page reload. Switch (in older versions) makes sure only the first matching route is shown, but in React Router v6, it is replaced by Routes.