

Assignment 7a

Roll No: 71 T14 Batch

Aim: WAP to implement ReactJS Router Create more than two class or functional components and implement program for Routing using browserrouter.

LO Attained: LO5

Theory:

React Router is a standard library for routing in React. It enables the navigation among views of various components in a React Application, allows changing the browser URL, and keeps the UI in sync with the URL.

Link is a component used to create links to different routes in a React application. It works like an HTML anchor tag (<a>). When a user clicks on a Link component, the browser URL is updated to the corresponding route path, and the Router component renders the component associated with that route.

Route is a component that renders a component conditionally, based on the current URL. It takes a path prop, which specifies the URL path that the route matches. When the current URL matches the route's path, the Route component renders the component specified by the component prop.

BrowserRouter is a component that provides routing for web applications. It uses the HTML5 History API to update the browser URL without reloading the page.

React Router:

React Router works by maintaining a history stack of all the routes that the user has visited. When the user navigates to a new route, React Router updates the history stack and renders the component associated with that route.

React Router also provides a number of features that make it easy to build complex routing applications, such as:

- Nested routes: React Router allows you to define nested routes, which are routes that are nested within other routes. This allows you to create complex navigation hierarchies.
- Dynamic routing: React Router allows you to define dynamic routes, which are routes that contain parameters. This allows you to create routes that can be used to render different content based on the parameters in the URL.
- Route guards: React Router allows you to define route guards, which are functions that can be used to control access to certain routes. This allows you to implement authentication and authorization logic in your application.

Conclusion:

LO5 was achieved.

Understood the concept of React Router. The components related to it like Link, Route, Routes, BrowserRouter, etc.