

https://reactrouter.com/



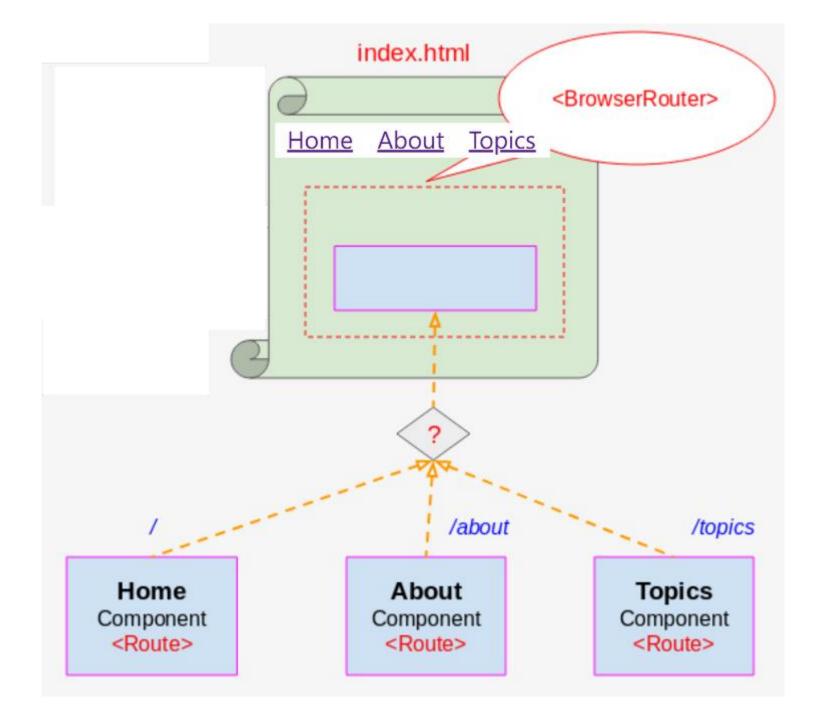
Routing

The act of moving between pages/components of an app to complete tasks

Designing effective navigation = Simplify the user journey

Routing

- Component Router ease loading components as the user interacts with the page
- Routing implements client-side navigation for SPA:
 - Configure routes: map relative Url to the corresponding components in a declarative way
 - On URL change the router loads the associated component
- Install npm install react-router-dom@6



Routing with React Router

```
import React from "react";
import { BrowserRouter as Router, Route, Link } from "react-router-dom";
function RouterBasicExample() {
 return (
   <Router>
      <div>
          <l
             Link to="/about">About</link> 
             <hr />
         <Routes>
           <Route exact path="/" element={Home} />
           <Route path="/about" element={About} />
           <Route path="/topics" element={Topics} />
         </Routes>
      </div>
   </Router>
```

Configuring Routes

- React-Router allows you to declaratively define routes using the <Route> component
- **Route>** component renders the component mentioned in the **element** prop when the path value mentioned in the **path** prop matches the browser's URL location

Route Parameter

- A <Route> can be configured to accept URL parameters
 - E.g, to display user info for a given userID, the URL path could look like '/user/1' for a user with a userID of '1', and '/user/123' for a user with a userID of '123'
 - E.g., Twitter's profile page can accept twitterID and displays the feed for the given user
- A <Route> component can be configured to accept the dynamic portion in the URL prefixed with a colon (:)

```
<Route path='products/:productId' element={<SingleProduct />}
/>
```

Router programmatic access

Request the router to navigate to a Url programmatically

```
const navigate = useNavigate();
navigate('/dashboard');
```

Get route parameter

```
const { heroId } = useParams();
```

Route configured in the router:

```
<Route path="/hero/:heroId" component={SingleHero} />
```

Nested Routes