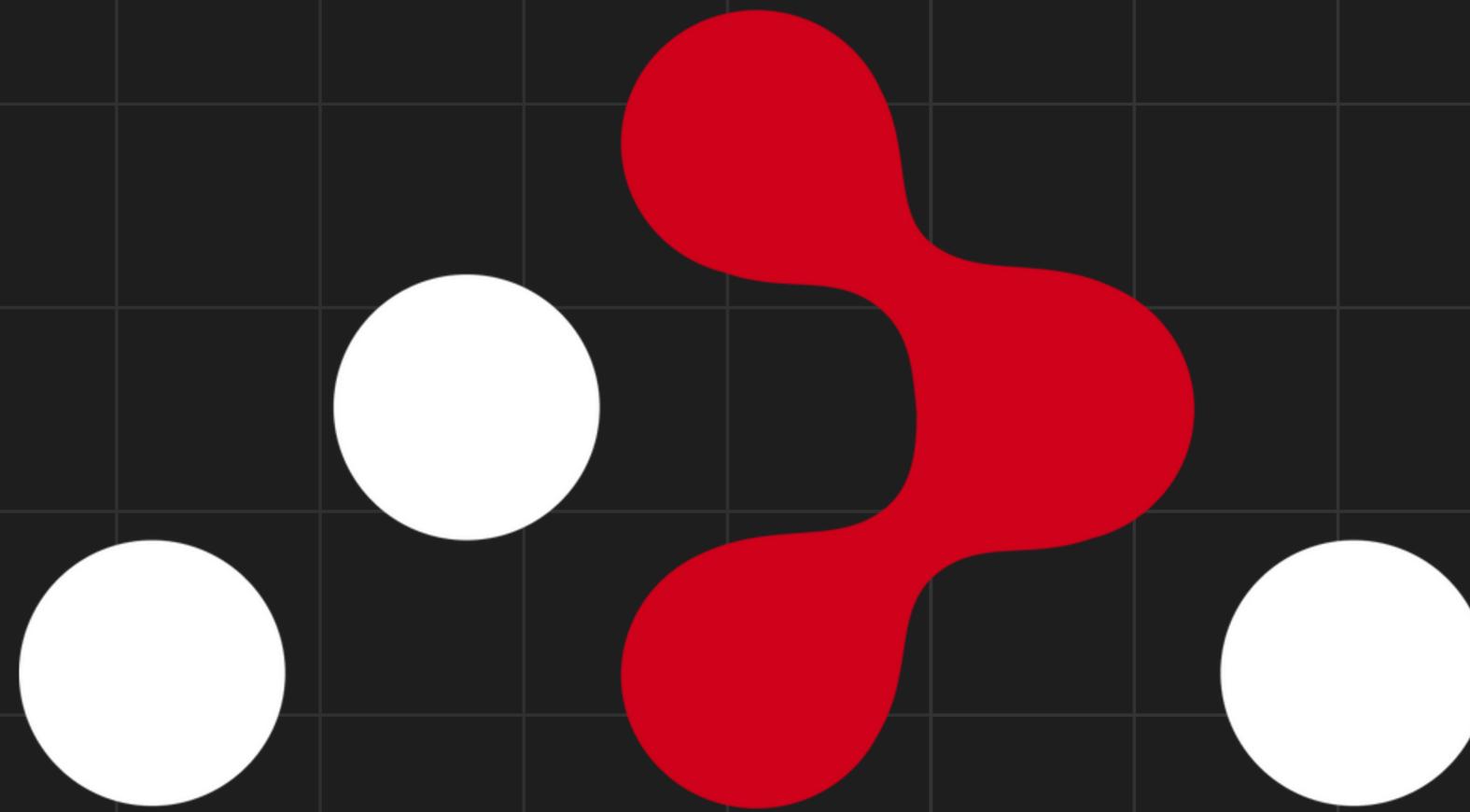


REACTROUTER



manages navigation and routing in
React single-page applications.



Installation



```
npm install react-router-dom
```

Installing Typescript

createBrowserRouter

used to define all the routes in your app
and how they connect to components.



```
const router = createBrowserRouter([
  { path: "/", element: <Home /> },
  { path: "/about", element: <About /> },
  { path: "*", element: <NotFound /> },
]);
```

Specifies the URL.

Specifies the component to render.

RouterProvider

a component from React Router that enables
your app to use the routing system.



from `createBrowserRouter`

```
<RouterProvider router={router} />;
```

Link

used for client-side navigation without a full page reload.



```
import { Link } from "react-router-dom";

function Navbar() {
  return (
    <nav>
      <Link to="/">Home</Link>
      <Link to="/about">About</Link>
    </nav>
  );
}

export default Navbar;
```

- Prevents full page reload
- Maintains state & back/forward functionality.
- Defines the target route.

Not Found Page

displayed when a user navigates to an invalid or non-existent route



```
const router = createBrowserRouter([
  { path: "/", element: <Home /> },
  { path: "/about", element: <About /> },
  { path: "*", element: <NotFound /> }, // Catch-all route
]);
```

catches all unmatched
routes

Dynamic Route

You define dynamic segments of the URL using : syntax.



```
const router = createBrowserRouter([
  { path: "/", element: <Home /> },
  { path: "/product/:id", element: <Product /> }, // Dynamic route with ':id'
]);
```



useParams

to access dynamic parameters inside your component.



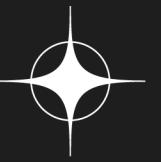
```
import { useParams } from "react-router-dom";

function Product() {
  const { id } = useParams(); // Access the dynamic route parameter 'id'
  return <h1>Product ID: {id}</h1>;
}

export default Product;
```



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