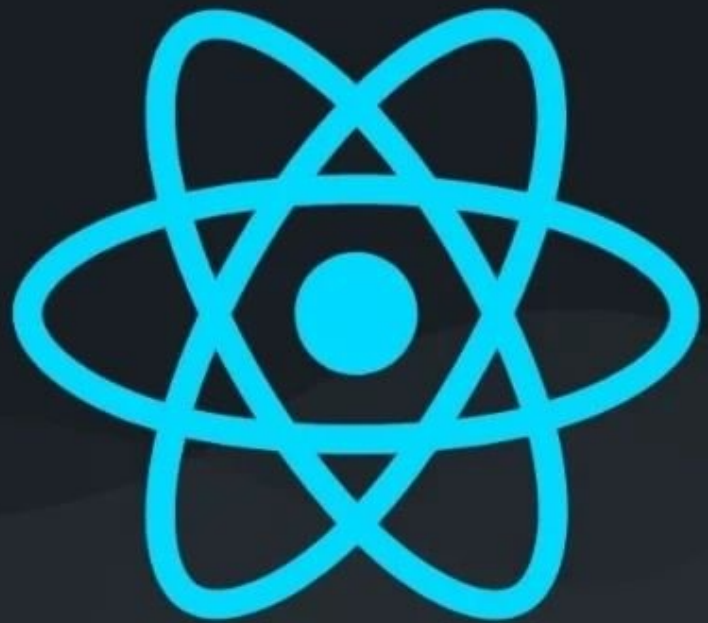


# React Router In Detail

With Preview



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# What Is **React Router** ?

**React Router** is a React **library** that enables dynamic **navigation** without refreshing the entire web page.

It creates fast and interactive (SPA) **single-page applications** by showing different content based on the URL, similar to traditional multi-page sites but **without page reloads**.

Developers can build user-friendly **web apps** by rendering specific components when users click on links.

# Steps | React Router

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## ✓ Install React Router

- Use **npm** or **yarn** to install React Router

## ✓ Import React Router Components

- Include necessary elements from **react-router-dom**

## ✓ Set Up Routes

- Define routes & associate them with **specific components**

## ✓ Navigation

- Use **<NavLink/>** or **</Link>** component for **clickable** route links.



# Installation



Using npm:

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

Using yarn:

```
yarn add react-router-dom
```

**Note:** install react router dom in your  
**react project directory**





# Import Router Components

# 2

```
import React from "react";
import ReactDOM from "react-dom/client";
import "./App.css";

import { BrowserRouter } from "react-router-dom";
import { RouterProvider } from "react-router-dom"

import { routes } from "../routes/routeConfig";

const router = createBrowserRouter(routes);

ReactDOM.createRoot(document.getElementById("root")).render(
  <React.StrictMode>
    <RouterProvider router={router} />
  </React.StrictMode>,
);
```

You can also use simple Router component **BrowserRouter** for wrap routes

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# Set Up Routes

# 3

Simple way using Route

Setup Routes  
2nd way

```
import Home from "../pages/Home";
// Import all Remaining components ...

import { createRoutesFromElements } from "react-router-dom";
import { Route } from "react-router-dom";
```

// 2nd Way ( with Router Route Component & Function )

```
export const routes = createRoutesFromElements(
  <Route>
    <Route path="/" element={<Layout />}>
      <Route path="" element={<Home />} />
      <Route path="about" element={<About />} />
      <Route path="contact" element={<Contact />} />
    </Route>,
    <Route path="*" element={<ErrorPage />} />,
  </Route>,
);
```

// this routes for RouterProvider (main.jsx)

custom  
component  
when error  
occurs

Using **BrowserRouter**, Routes & Route  
is also simple way



# Set Up Routes

# 3

```
import Home from "../pages/Home";  
// Import all Remaining components
```

```
// 1st Way (Array of objects)
```

```
export const routes = [  
  {  
    path: "/",  
    element: <Layout />,  
    errorElement: <ErrorPage />,  
    children: [  
      {  
        path: "",  
        element: <Home />  
      },  
      {  
        path: "about",  
        element: <About />  
      },  
      {  
        path: "Contact",  
        element: <Contact />  
      }  
    ]  
  }  
];
```

**Setup Routes  
1st way**

custom component  
when error occurs

```
// this routes for RouterProvider (main.jsx)
```





# Navigation

# 4

Using the **Link** & **NavLink** component to create clickable links between different routes in your application.

```
Navbar.jsx

import React from "react";
import { NavLink, Link } from "react-router-dom";

function Navbar() {
  return (
    <nav>
      <h2>
        <Link to="/">CodeBustler</Link>
      </h2>
      <ul>
        <NavLink to="/">Home</NavLink>
        <NavLink to="/about">About</NavLink>
        <NavLink to="/contact">Contact</NavLink>
      </ul>
    </nav>
  );
}

export default Navbar;
```



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