



# React Router DOM(v6)



# Topics Covered

- What is Routing?
- Configuring the Router.
- Problems with <a> tag.
- Nested routing.



# What is Routing?

- Routing in React is the process of determining which components to render based on the current URL or route.
- React Router DOM is an npm package that enables you to implement dynamic routing in a web app.
- It allows you to display pages and allow users to navigate them.

# Configuring the Router

- We have to import `createBrowserRouter` from 'react-router-dom'
- **`createBrowserRouter`** allows us to define the routes as an array of objects in which we can specify a path, the element to be rendered when the path is browsed.



# Problems with `<a>` tag

- It will reload the entire page when it is clicked.
- It disrupts user experience and can result in a slower page load time.
- This causes problems for single page applications (SPAs).
- So to solve this issue, react-router-dom gives us a `Link`.

# Nested routing

- Nested routing means routes inside another route.
- An <Outlet> should be used in parent route elements to render their child route elements.
- This allows nested UI to show up when child routes are rendered.
- If the parent route matched exactly, it will render a child index route or nothing if there is no index route.





▶ THANK YOU ◀