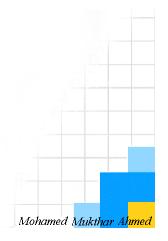


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Outline
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React Router



- Create React App doesn't include page routing.
- React Router is the most popular solution.
- To add React Router to your application, run this command in the terminal from the root directory of the application:

```
npm i -D react-router-dom

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```

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Folder Structure



- To create an application with multiple page routes, let's first start with the folder structure.
- Within the src folder, we'll create a folder named pages with several files:

```
C:\TRAINING\REACT\ROUTING\SRC
index.js

pages
Blogs.js
Contact.js
Home.js
Layout.js
NoPage.js
```

Each file will contain a very basic React component.:

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Layout Component



- The Layout component has <Outlet> and <Link> elements.
 - The **<Outlet>** renders the current route selected.
 - **Link>** is used to set the URL and keep track of browsing history.
- Anytime we link to an internal path, we will use <Link> instead of <.
- The "layout route" is a shared component that inserts common content on all pages, such as a navigation menu.

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Layout Component



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Different Page Components



■ Home.js

```
const Home = () => {
  return <h1>Home</h1>;
};
export default Home;
```

Similarly, we can create the 'Contact', 'Blogs' and 'NoPage' components.

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The index.js File



The index.js File



- Let's dissect what is there in the index.js file
- We wrap our content first with <BrowserRouter> component.
- Then we define our <Routes>.
 - An application can have multiple <Routes>. Our basic example only uses one.
- <Route>s can be nested.
 - The first <Route> has a path of / and renders the Layout component.
 - The nested <Route>s inherit and add to the parent route. So the blogs path is combined with the parent and becomes /blogs.

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The index.js File



- Let's dissect what is there in the index.js file
- The Home component route does not have a path but has an index attribute.
 - It specifies this route as the default route for the parent route, which is I.
- Setting the path to * will act as a catch-all for any undefined URLs.
 - This is great for a 404 error page.





