

# Routing

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**React Router** is a standard library for routing in React. It enables the navigation among views of various components in a React Application

**Installing React Router:** `npm i react-router-dom`

After installing react-router-dom, add its components to your React application.

go to **app.js** file

```
import {
  BrowserRouter as Router,
  Routes,
  Route,
  Link
} from 'react-router-dom';
```

include React Router components to the application:

**BrowserRouter:** Add BrowserRouter aliased as Router to your app.js file

```
return (
  <Router>
    <div>
      //link
    </div>
  </Router>
);
```

**Link:** Let us now create links to our components. Link component describe the location where the links should navigate to.

```
<div>
  <ul>
    <li>
      <Link to="/">Home</Link>
    </li>
    <li>
      <Link to="/about">About Us</Link>
    </li>
    <li>
      <Link to="/contact">Contact Us</Link>
    </li>
  </ul>
</div>
```

Now, run your application on the local host and click on the links you created. You will notice the url changing according the value

Now lets establish the link between component's UI and the URL.

```
<Routes>
  <Route exact path="/" element={< Home />}></Route>
  <Route exact path="/about" element={< About />}></Route>
```

```
<Route exact path='/contact' element={< Contact />}></Route>  
</Routes>
```

**1.exact:** It is used to match the exact value with the URL

- **2. path:** Path specifies a pathname we assign to our component.
- **3. element:** It refers to the component which will render on matching the path.