

React Router

Objective

- Router
- Router component
- Router install

Router in React

- ❖ **React Router** is a standard library for routing in React
- ❖ It enables the navigation among views of various components in a React Application, allows changing the browser URL, and keeps the UI in sync with the URL.

Installing React Router

❖ React Router can be installed via npm in your React application. Follow the steps given below to install Router in your React application:

- **Step 1:** cd into your project directory.
- **Step 2:** To install the React Router use the following command:

- *`npm install -save react-router-dom`*

- **Step 3:** import

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

React Router Components

❖ The main Components of React Router are:

- **BrowserRouter:** It is the parent component that is used to store all of the other components.
- **Route:** Route is the conditionally shown component that renders some UI when its path matches the current URL.
- **Link:** Link component is used to create links to different routes and implement navigation around the application
- **Switch:** Switch component is used to render only the first route that matches the location rather than rendering all matching routes.

```
export default function BasicExample() {
  return (
    <Router>
      <div>
        <ul>
          <li>
            <Link to="/">Home</Link>
          </li>
          <li>
            <Link to="/about">About</Link>
          </li>
          <li>
            <Link to="/dashboard">Dashboard</Link>
          </li>
        </ul>

        <Switch>
          <Route exact path="/">
            <Home />
          </Route>
          <Route path="/about">
            <About />
          </Route>
          <Route path="/dashboard">
            <Dashboard />
          </Route>
        </Switch>
      </div>
    </Router>
  );
}
```

Summary

- Router
- Router component
- Router install



Resources

- <https://reactrouter.com/web/example/basic>

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