# Single-page app using React Router

Exp. No.: 10

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#### Code:

#### App.js:

```
import "./App.css";
import Index from "./url/Index";
import About from "./About/About";
import Page404 from "./Page404/Main";
import { BrowserRouter as Router, Routes, Route } from "react-router-dom";
import routes from "./Routes";
function App() {
return (
  <div className="app">
   <Router>
    <Index />
    <Routes>
     {routes.map((route) => {
      return (
       <Route key={route.id} path={route.path} element={route.element} />
      );
     })}
     <Route index path="/" exact element={<About />} />
     <Route path="*" element={<Page404 />} />
```

```
</Routes>
   </Router>
  </div>
);
}
export default App;
Routes.js:
import Exp1 from "./exp-1/Main";
import Exp2 from "./exp-2/Main";
import Exp3 from "./exp-3/Main";
import Exp4 from "./exp-4/Card";
import Api from "./api/Api";
import Validation from "./validation/Main";
import Rest from "./rest";
import Calculator from "./Calculator";
import Toggle from "./ToggleButton/Toggle";
import Props from "./propsExp/Main";
const routes = [
{
  id: 1,
  path: "/exp-1",
  element: <Exp1/>,
  title: "Experiment-1",
  to: "/exp-1",
},
 {
  id: 2,
  path: "/exp-2",
  element: <Exp2 />,
```

```
title: "Experiment-2",
 to: "/exp-2",
},
{
 id: 3,
 path: "/exp-3",
 element: <Exp3 />,
 title: "Experiment-3",
 to: "/exp-3",
},
{
 id: 4,
 path: "/exp-4",
 element: <Exp4 />,
 title: "Experiment-4",
 to: "/exp-4",
},
{
 id: 5,
 path: "/api-example",
 element: <Api />,
 title: "API Example",
 to: "/api-example",
},
{
 id: 6,
 path: "/validation",
 element: <Validation />,
 title: "Validation",
 to: "/validation",
},
```

```
{
  id: 7,
  path: "/rest/*",
  element: <Rest />,
  title: "REST API",
  to: "/rest",
},
 {
  id: 8,
  path: "/calculator",
  element: <Calculator />,
  title: "Calculator",
  to: "/calculator",
 },
 {
  id: 10,
  path: "/toggle",
  element: <Toggle />,
  title: "Toggle Button",
  to: "/toggle",
 },
 {
  id: 11,
  path: "/props",
  element: <Props />,
  title: "Props",
  to: "/props",
},
];
```

export default routes;

## Index.js:

```
import { Link } from "react-router-dom";
import "./Index.css";
import routes from "../Routes";
function Index() {
return (
  <Link to="/">Home</Link>
   {routes.map((route) => {
   if (!route.to) return <></>;
    return (
    key={route.id}>
     <Link to={route.to}>{route.title}</Link>
     );
  })}
  );
}
```

export default Index;

### OUTPUT:

