**ReactJS | Router**

**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](https://www.geeksforgeeks.org/node-js-npm-node-package-manager/) in your React application. Follow the steps given below to install Router in your React application:

* To install the React Router use the following command:

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

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

**Adding React Router Components:** The main Components of React Router are:

* **BrowserRouter:** BrowserRouter is a router implementation that uses the HTML5 history API(pushState, replaceState and the popstate event) to keep your UI in sync with the URL. It is the parent component that is used to store all of the other components.
* **Routes:** It’s a new component introduced in the v6 and a upgrade of the component. The main advantages of Routes over Switch are:
  + Relative s and s
  + Routes are chosen based on the best match instead of being traversed in order.
* **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. It works like HTML [anchor tag](https://www.geeksforgeeks.org/html-a-tag/).

To add React Router components in your application, open your project directory in the editor you use and go to **app.js** file. Now, add the below given code in app.js.

|  |
| --- |
| import {      BrowserRouter,      Routes,      Route,      Link  } from 'react-router-dom'; |

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

|  |
| --- |
| <div className="App">      <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> |