

Routing in React

In single-page-application, we need to navigate end-user to the different-different components (views) that we have define in our application.

React-router-dom library allows us to define the navigation in react application.

React-router-dom intercept the browser url and according to browser URL it renders the component.

React-router-dom library comes with several predefine components, by using them we can implement the routing.

1. BrowserRouter: -

BrowserRouter component intercepts the value of browser URL in sync manner. and as URL of a browse gets changed it provide updated browser url to its child component. BrowserRouter component allows routing in react application.

2. Routes: -

Routes component wraps all the mappings on URLs and their corresponding components as children. And insures at a time only on component get render among of them.

3. **Route:** -

Route component is use for mapping purpose. it defines the mapping of path to desired component.

Route Component has two important props

- 1. path: path props get the value of url endpoint mapping
- 2. element: get the component which needs to be render



4. Link: -

Link component is use to change the browser URL. Instead of using <button> or <a> elements we use Link component.

It has two important props

- 1. className: get the css class name to style the link
- 2. to :- it accepts the string value on which you want to shift the browser url

Q) How to install 'react-router-dom' library?

-> Using npm command:- **npm install react-router-dom**

PROBLEMS OUTPUT DEBUG CONSOLE <u>TERMINAL</u> PORTS

PS D:\B176 React WorkSpace\react-routing> npm install react-router-dom

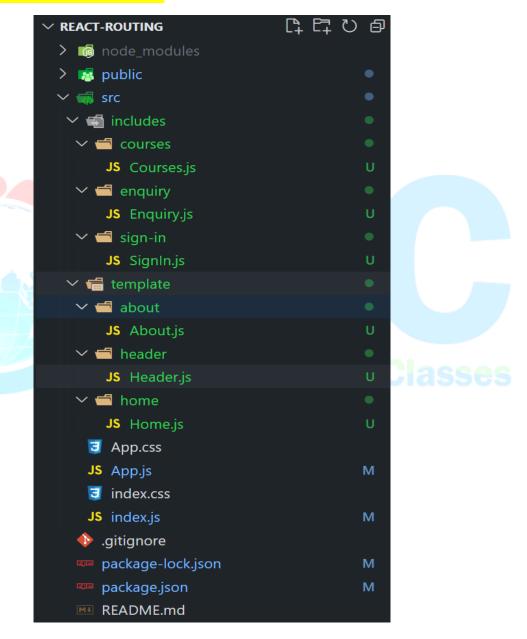
added 3 packages, and audited 1548 packages in 3s

Complete Java Classes



Below example will demonstrate the routing in react application.

1. Application folder structure.





2. Snippet of Index.js

3. Snippet of App.js

Stop, Near, 1st Floor, Above Rupam Sweets/ Priyanka Collections Building Vikas Mitra Mandal Chowk Road, Karve Nagar, Pune, Maharashtra 411052, Mobile No.- 8888022204



4. Snippet of Header. js

5. Snippet of Home.js



6. Snippet of About.js

7. Snippet of Courses.js

```
JS Courses.js U X

src > includes > courses > JS Courses.js > ☆ Courses

import React from 'react'

function Courses() {

return (

+ h1 className='text-center text-primary'>.....Featching courses information..!</h1>
}

export default Courses
```



8. Snippet of Enquiry.js

9. Snippet of SignIn.js