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React-JS Routing

Routing?

Routing is the concepts where we can move between different parts of an application when a user redirect or launch a URL or clicks an element within the application.

React-Router?

React Router is a Javascript routing library. By using the React.Router package, you can add server-side route resolution by deferring to React Router.

Route?

This component is used to create a react js routing at a particular location via a URL. The component is mounted on URLs on pages that correspond to the specific route that is set up in the configuration props for the route.

// define our initial route.

path – The route for this route is active

component – The part that defines the vision of the route

BrowserRouter

React Router needs to be both aware and in control of your app's location.

The way it does this is with its BrowserRouter component.

import ReactDOM from 'react-dom'

import \* as React from 'react'

import { BrowserRouter } from 'react-router-dom'

import App from './App`

ReactDOM.render(

<BrowserRouter>

<App />

</BrowserRouter>

, document.getElementById('app))

class App extends React.Component {

render() {

return (

<Router>

<Route path="/" component={Home} />

</Router>

);

React Router Links

To allow the users to redirect between two routes we’ll have to include an anchor tag (<a/>).

import { BrowserRouter as Router, Route, Link } from "react-routerdom";

const Home = () => (

<div>

<h1>Home</h1>

<Link to="/about"> Page Link</Link>

</div>

);

const About = () => (

<div>

<h1>About</h1>

<Link to="/">Home Page Link</Link>

</div>

);

The <Switch/> component only renders the first match route it locates.

Routes

Routes will start to do more work like enabling intelligent rendering and relative paths.

import { Routes, Route } from "react-router-dom";

function App() {

return (

<Routes>

<Route path="/" element={<Home />} />

<Route path="/about" element={<About />} />

<Route path="\*" element={<NotFound />} />

</Routes>

);

}

**Implementation of React Routing**

Step-1

🡪Install bellow packages

npm install react-router

npm install react-router-dom

npm install react-bootstrap(for bootstrap)

Step-2

Add below parts on App.js

import React, { Component } from 'react';

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

import Home from './Home';

import About from './About';

import Contact from './Contact';

class App extends Component {

  render() {

    return (

    <Router>

        <div>

          <h2>React Routing</h2>

          <nav className="navbar navbar-expand-lg navbar-light bg-light">

          <ul className="navbar-nav mr-auto">

            <li><Link to={'/'} className="nav-link"> Home </Link></li>

            <li><Link to={'/Contact'} className="nav-link">Contact</Link></li>

            <li><Link to={'/About'} className="nav-link">About</Link></li>

          </ul>

          </nav>

          <hr />

          <Switch>

              <Route exact path='/' component={Home} />

              <Route path='/Contact' component={Contact} />

              <Route path='/About' component={About} />

          </Switch>

        </div>

      </Router>

    );

  }

}

export default App;

Step-3 Create following pages like..

Home.js

import React, { Component } from 'react';

class Home extends Component {

  render() {

    return (

        <div>

          <h2>Home</h2>

        </div>

    );

  }

}

export default Home;

Contact.js

import React, { Component } from 'react';

class Contact extends Component {

  render() {

    return (

        <div>

          <h2>This is Contact Page</h2>

        </div>

    );

  }

}

export default Contact;

About.js

import React, { Component } from 'react';

class About extends Component {

  render() {

    return (

        <div>

          <h2>About</h2>

        </div>

    );

  }

}

export default About;

Step-4 Finally Add App.js on index.js & run your app.