

Sunday, 3 September 2023

Routing

Routing is the way in the react in which you will show the components based upon the urls. Meaning Mapping of Urls with Components.

For example:


/about => About Component

/contact => Contact Component

Using `react-router-dom`:

- To implement routing in a React application, you typically use the `react-router-dom` library, which provides components and utilities for defining and managing routes.

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```
npm install react-router-dom
```

How to Setup:

We just have to follow 3 steps to implement Routing.

1. Wrap the Main file “index.js” inside the `<BrowserRouter>` Component

```
ReactDOM.createRoot(document.getElementById('root')).render(  
  <React.StrictMode>  
    <BrowserRouter>  
      <App />  
    </BrowserRouter>  
  </React.StrictMode>,  
)
```

2. All the Routes must be enclosed in the `<Routes>` Component.

```
return (

fetchSeries={fetchSeries} fetchMovies={fetchMovies}/>



path="/" element={<Home loading={loading} series={series} movies={movies} /> } />



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



path="/movie-details/:id" element={<MovieDetail /> } />


```

3. Single Route is defined by `<Route path="/about" component={<About /> } />` Component. Where the path prop will take the url and component prop will take the component and it will map the given url with given component.

```
<Route path="/" exact component={Home} />  
<Route path="/about" component={About} />  
<Route path="/contact" component={Contact} />
```

4. Generally all the Routes are written in App.js

URL PARAMETERS

Url parameters are the way to pass some dynamic values to urls. For example passing some id's to the urls so that the mapped component can identified this url is opened for which parent.


1. What are URL Parameters?

- URL parameters (also known as route parameters or route segments) are placeholders in the URL that capture values dynamically as part of the route.

2. Defining Routes with Parameters:

- To create routes with URL parameters, you can define route paths that include colon-prefixed placeholders to capture values.

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```
<Route path="/users/:id" component={UserProfile} />
```

Accessing URL Parameters:

- In the component specified by the route, you can access the URL parameters using the `useParams` hook or the `match` object.

javascript

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```
import { useParams } from 'react-router-dom';

function UserProfile() {
  const { id } = useParams();
  // Use the 'id' parameter in your component logic
}
```

Parameter Names: