Routing using React Router | Part 2 & 3 | Cheat Sheet

Concepts in Focus

* API Calls

Fetch

* Route Props

Match

* BlogsList Example

1 . API Calls

In General we make API Calls inside componentDidMount(). So that it doesn’t block render().

1.1 Fetch

fetch is a promise-based API which returns a response object. In the backend, we use snake\_case for naming conventions.

2. Route Props

When a component is rendered by the Route, some additional props are passed

* **match**
* **location**
* **history**

2.1 Match

The match object contains the information about the path from which the component is rendered.

3. BlogsList Example

File: src/App.js

import { BrowserRouter, Route, Switch } from 'react-router-dom'

import Header from './components/Header'

import About from './components/About'

import Contact from './components/Contact'

import BlogsList from './components/BlogsList'

import BlogItemDetails from './components/BlogItemDetails'

import NotFound from './components/NotFound'

import './App.css'

const App = () => (

<BrowserRouter>

<Header />

<Switch>

<Route exact path="/" component={BlogsList} />

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

<Route path="/contact" component={Contact} />

<Route path="/blogs/:id" component={BlogItemDetails} />

<Route component={NotFound} />

</Switch>

</BrowserRouter>

)

export default App

File: src/components/Header/index.js

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

import './index.css'

const Header = () => (

<nav className="nav-header">

<div className="blog-container">

<h1 className="blog-title">Dev Blog</h1>

<ul className="nav-menu">

<Link className="nav-link" to="/">

<li>Home</li>

</Link>

<Link className="nav-link" to="/about">

<li>About</li>

</Link>

<Link className="nav-link" to="/contact">

<li>Contact</li>

</Link>

</ul>

</div>

</nav>

)

export default Header

File: src/components/BlogsList/index.js

class BlogsList extends Component {

state = { isLoading: true, blogsData: [] }

componentDidMount() {

this.getBlogsData()

}

getBlogsData = async () => {

const response = await fetch('https://apis.ccbp.in/blogs')

const statusCode = await response.statusCode

console.log(statusCode)

const data = await response.json()

const formattedData = data.map(eachItem => ({

id: eachItem.id,

title: eachItem.title,

imageUrl: eachItem.image\_url,

avatarUrl: eachItem.avatar\_url,

author: eachItem.author,

topic: eachItem.topic,

}))

this.setState({ blogsData: formattedData, isLoading: false })

}

render() {

const { blogsData, isLoading } = this.state

console.log(isLoading)

return (

<div className="blog-list-container">

{isLoading ? (

<Loader type="TailSpin" color="#00BFFF" height={50} width={50} />

) : (

blogsData.map(item => <BlogItem blogData={item} key={item.id} />)

)}

</div>

)

}

}

export default BlogsList

File: src/components/BlogItem/index.js

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

import './index.css'

const BlogItem = props => {

const { blogData } = props

const { id, imageUrl, topic, title, avatarUrl, author } = blogData

return (

<Link to={`/blogs/${id}`} className="item-link">

<div className="item-container">

<img className="item-image" src={imageUrl} alt={`item${id}`} />

<div className="item-info">

<p className="item-topic">{topic}</p>

<p className="item-title">{title}</p>

<div className="author-info">

<img className="avatar" src={avatarUrl} alt={`avatar${id}`} />

<p className="author-name">{author}</p>

</div>

</div>

</div>

</Link>

)

}

export default BlogItem

File: src/components/About/index.js

import './index.css'

const About = () => (

<div className="about-container">

<img

src="https://assets.ccbp.in/frontend/react-js/about-blog-img.png"

alt="about"

className="about-img"

/>

<h1 className="about-heading">About</h1>

<p className="about-paragraph">All about Blogs of frontend developers</p>

</div>

)

export default About

File: src/components/Contact/index.js

import './index.css'

const Contact = () => (

<div className="contact-container">

<img

src="https://assets.ccbp.in/frontend/react-js/contact-blog-img.png"

alt="contact"

className="contact-img"

/>

<h1 className="contact-heading">Contact</h1>

</div>

)

export default Contact

File: src/components/BlogItemDetails/index.js

import { Component } from 'react'

import Loader from 'react-loader-spinner'

import 'react-loader-spinner/dist/loader/css/react-spinner-loader.css'

import './index.css'

class BlogItemDetails extends Component {

state = { blogData: {}, isLoading: true }

componentDidMount() {

this.getBlogItemData()

}

getBlogItemData = async () => {

const { match } = this.props

const { params } = match

const { id } = params

const response = await fetch(`https://apis.ccbp.in/blogs/${id}`)

const data = await response.json()

const updatedData = {

title: data.title,

imageUrl: data.image\_url,

content: data.content,

avatarUrl: data.avatar\_url,

author: data.author,

}

this.setState({ blogData: updatedData, isLoading: false })

}

renderBlogItemDetails = () => {

const { blogData } = this.state

const { title, imageUrl, content, avatarUrl, author } = blogData

return (

<div className="blog-info">

<h2 className="blog-details-title">{title}</h2>

<div className="author-details">

<img className="author-pic" src={avatarUrl} alt={author} />

<p className="details-author-name">{author}</p>

</div>

<img className="blog-image" src={imageUrl} alt={title} />

<p className="blog-content">{content}</p>

</div>

)

}

render() {

const { isLoading } = this.state

return (

<div className="blog-container">

{isLoading ? (

<Loader type="TailSpin" color="#00BFFF" height={50} width={50} />

) : (

this.renderBlogItemDetails()

)}

</div>

)

}

}

export default BlogItemDetails

File: src/components/NotFound/index.js

import './index.css'

const NotFound = () => (

<div className="not-found-container">

<img

src="https://assets.ccbp.in/frontend/react-js/not-found-blog-img.png"

alt="not-found"

className="not-found-img"

/>

</div>

)

export default NotFound