

Concepts in Focus

- Rendering Promise Object
- Using Link and Route Components without BrowserRouter
- Providing Wrong Route Path
- Missing exact keyword
- Missing Switch
- Placing Common component inside Switch
- Providing the same PATH for multiple Routes
- Missing Colon(:) while providing Path Parameters
- Accessing Promise Object
- Ordering of Routes inside Switch

1. Rendering Promise Object

Mistake:

- Async Function returns a `Promise Object` But, React cannot render this Promise Object.
- The best way to make API call is in the `componentDidMount()` .

File: src/components/BlogsList/index.js

```
1 import { Component } from 'react'
2 import Loader from 'react-loader-spinner'
3
4 import 'react-loader-spinner/dist/loader/css/react-spinner-loader.css'
```

JSX

```
5
6 import BlogItem from '../BlogItem'
7
8 import './index.css'
9
10 class BlogsList extends Component {
11   state = { isLoading: true, blogsData: [] }
12
13   getBlogsData = async () => {
14     const response = await fetch('https://apis.ccbp.in/blogs')
15     const statusCode = await response.statusCode
16     console.log(statusCode)
17     const data = await response.json()
18
19     const formattedData = data.map(eachItem => ({
20       id: eachItem.id,
21       title: eachItem.title,
22       imageUrl: eachItem.image_url,
23       avatarUrl: eachItem.avatar_url,
24       author: eachItem.author,
25       topic: eachItem.topic,
26     }))
27   }
28
29   render() {
30     const { blogsData, isLoading } = this.state
31     console.log(isLoading)
32
33     return (
34       <div className="blog-list-container">
35         {this.getBlogsData()}
36       </div>
37     )
38   }
39 }
40
```

```
41 export default BlogsList
```

Collapse ^

Solution:

File: src/components/BlogsList/index.js

```
1 import { Component } from 'react'
2 import Loader from 'react-loader-spinner'
3
4 import 'react-loader-spinner/dist/loader/css/react-spinner-loader.css'
5
6 import BlogItem from '../BlogItem'
7
8 import './index.css'
9
10 class BlogsList extends Component {
11   state = { isLoading: true, blogsData: [] }
12
13   componentDidMount() {
14     this.getBlogsData()
15   }
16
17   getBlogsData = async () => {
18     const response = await fetch('https://apis.ccbp.in/blogs')
19     const statusCode = await response.statusCode
20     console.log(statusCode)
21     const data = await response.json()
22
23     const formattedData = data.map(eachItem => ({
24       id: eachItem.id,
25       title: eachItem.title,
26       imageUrl: eachItem.image_url,
27       avatarUrl: eachItem.avatar_url,
28       author: eachItem.author,
```

JSX

```

29     topic: eachItem.topic,
30   )))
31   this.setState({ blogsData: formattedData, isLoading: false })
32 }
33
34 render() {
35   const { blogsData, isLoading } = this.state
36   console.log(isLoading)
37
38   return (
39     <div className="blog-list-container">
40       {isLoading ? (
41         <Loader type="TailSpin" color="#00BFFF" height={50} width={50} />
42       ) : (
43         blogsData.map(item => <BlogItem blogData={item} key={item.id} />)
44       )}
45     </div>
46   )
47 }
48 }
49
50 export default BlogsList

```

Collapse ^

2. Using Link and Route Components without BrowserRouter

Mistake:

File: src/App.js

```

1  import {Route, Switch} from 'react-router-dom'
2
3  import Header from './components/Header'

```

JSX

```

4 import About from './components/About'
5 import Contact from './components/Contact'
6 import BlogsList from './components/BlogsList'
7 import BlogItemDetails from './components/BlogItemDetails'
8 import NotFound from './components/NotFound'
9
10 import './App.css'
11
12 const App = () => (
13   <Header />
14   <Switch>
15     <Route exact path="/" component={BlogsList} />
16     <Route path="/about" component={About} />
17     <Route path="/contact" component={Contact} />
18     <Route path="/blogs/:id" component={BlogItemDetails} />
19     <Route component={NotFound} />
20   </Switch>
21 )
22
23 export default App

```

Collapse ^

Solution:

File: src/App.js

```

1 import { BrowserRouter, Route, Switch } from 'react-router-dom'
2
3 import Header from './components/Header'
4 import About from './components/About'
5 import Contact from './components/Contact'
6 import BlogsList from './components/BlogsList'
7 import BlogItemDetails from './components/BlogItemDetails'
8 import NotFound from './components/NotFound'
9
10 import './App.css'

```

JSX

```

11
12 ▾ const App = () => (
13   <BrowserRouter>
14     <Header />
15     <Switch>
16       <Route exact path="/" component={BlogsList} />
17       <Route path="/about" component={About} />
18       <Route path="/contact" component={Contact} />
19       <Route path="/blogs/:id" component={BlogItemDetails} />
20       <Route component={NotFound} />
21     </Switch>
22   </BrowserRouter>
23 )
24
25 export default App

```

Collapse ^

File: src/components/Header/index.js

```

1  import { Link } from 'react-router-dom'
2
3  import './index.css'
4
5 ▾ const Header = () => (
6   <nav className="nav-header">
7     <div className="blog-container">
8       <h1 className="blog-title">Dev Blog</h1>
9       <ul className="nav-menu">
10        <Link className="nav-link" to="/">
11          <li>Home</li>
12        </Link>
13        <Link className="nav-link" to="/about">
14          <li>About</li>
15        </Link>
16        <Link className="nav-link" to="/contact">
17          <li>Contact</li>

```

JSX

```

17       <Link to="/contact" />
18     </Link>
19   </ul>
20 </div>
21 </nav>
22 )
23
24 export default Header

```

Collapse ^

3. Providing Wrong Route Path

Mistake:

File: src/App.js

```

1  import { BrowserRouter, Route, Switch } from 'react-router-dom'
2
3  import Header from './components/Header'
4  import About from './components/About'
5  import Contact from './components/Contact'
6  import BlogsList from './components/BlogsList'
7  import BlogItemDetails from './components/BlogItemDetails'
8  import NotFound from './components/NotFound'
9
10 import './App.css'
11
12 const App = () => (
13   <BrowserRouter>
14     <Header />
15     <Switch>
16       <Route exact path="/" component={BlogsList} />
17       <Route path="/abot" component={About} />
18       <Route path="/contact" component={Contact} />

```

JSX

```

19     <Route path="/blogs/:id" component={BlogItemDetails} />
20     <Route component={NotFound} />
21   </Switch>
22 </BrowserRouter>
23 )
24
25 export default App

```

Collapse ^

Solution:

File: src/App.js

```

1  import { BrowserRouter, Route, Switch } from 'react-router-dom'
2
3  import Header from './components/Header'
4  import About from './components/About'
5  import Contact from './components/Contact'
6  import BlogsList from './components/BlogsList'
7  import BlogItemDetails from './components/BlogItemDetails'
8  import NotFound from './components/NotFound'
9
10 import './App.css'
11
12 const App = () => (
13   <BrowserRouter>
14     <Header />
15     <Switch>
16       <Route exact path="/" component={BlogsList} />
17       <Route path="/about" component={About} />
18       <Route path="/contact" component={Contact} />
19       <Route path="/blogs/:id" component={BlogItemDetails} />
20       <Route component={NotFound} />
21     </Switch>
22   </BrowserRouter>
23 )

```

JSX


```
23 )
24
25 export default App
```

Collapse ^

File: src/components/Header/index.js

JSX

```
1 import { Link } from 'react-router-dom'
2
3 import './index.css'
4
5 const Header = () => (
6   <nav className="nav-header">
7     <div className="blog-container">
8       <h1 className="blog-title">Dev Blog</h1>
9       <ul className="nav-menu">
10        <Link className="nav-link" to="/">
11          <li>Home</li>
12        </Link>
13        <Link className="nav-link" to="/about">
14          <li>About</li>
15        </Link>
16        <Link className="nav-link" to="/contact">
17          <li>Contact</li>
18        </Link>
19      </ul>
20    </div>
21  </nav>
22 )
23
24 export default Header
```

Collapse ^

4. Missing exact keyword

Mistake:

- `Switch` renders a Route that matches the path.
- If Switch is missed, Browser will render Multiple Routes in the single path.

File: src/App.js

JSX

```
1  import { BrowserRouter, Route, Switch } from 'react-router-dom'
2
3  import Header from './components/Header'
4  import About from './components/About'
5  import Contact from './components/Contact'
6  import BlogsList from './components/BlogsList'
7  import BlogItemDetails from './components/BlogItemDetails'
8  import NotFound from './components/NotFound'
9
10 import './App.css'
11
12 ▾ const App = () => (
13   <BrowserRouter>
14     <Header />
15     <Switch>
16       <Route path="/" component={BlogsList} />
17       <Route path="/about" component={About} />
18       <Route path="/contact" component={Contact} />
19       <Route path="/blogs/:id" component={BlogItemDetails} />
20       <Route component={NotFound} />
21     </Switch>
22   </BrowserRouter>
23 )
24
25 export default App
```

Collapse ^

Solution:

File: src/App.js

```
1  import { BrowserRouter, Route, Switch } from 'react-router-dom'
2
```

JSX

```

3 import Header from './components/Header'
4 import About from './components/About'
5 import Contact from './components/Contact'
6 import BlogsList from './components/BlogsList'
7 import BlogItemDetails from './components/BlogItemDetails'
8 import NotFound from './components/NotFound'
9
10 import './App.css'
11
12 ▾ const App = () => (
13   <BrowserRouter>
14     <Header />
15     <Switch>
16       <Route exact path="/" component={BlogsList} />
17       <Route exact path="/about" component={About} />
18       <Route exact path="/contact" component={Contact} />
19       <Route exact path="/blogs/:id" component={BlogItemDetails} />
20       <Route component={NotFound} />
21     </Switch>
22   </BrowserRouter>
23 )
24
25 export default App

```

Collapse ^

5. Missing Switch

Mistake:

File: src/App.js

```

1 import { BrowserRouter, Route } from 'react-router-dom'
2

```

JSX

```

3 import Header from './components/Header'
4 import About from './components/About'
5 import Contact from './components/Contact'
6 import BlogsList from './components/BlogsList'
7 import BlogItemDetails from './components/BlogItemDetails'
8 import NotFound from './components/NotFound'
9
10 import './App.css'
11
12 const App = () => (
13   <BrowserRouter>
14     <Header />
15     <Route exact path="/" component={BlogsList} />
16     <Route path="/about" component={About} />
17     <Route path="/contact" component={Contact} />
18     <Route path="/blogs/:id" component={BlogItemDetails} />
19     <Route component={NotFound} />
20   </BrowserRouter>
21 )
22
23 export default App

```

Collapse ^

Solution:

File: src/App.js

```

1 import { BrowserRouter, Route, Switch } from 'react-router-dom'
2
3 import Header from './components/Header'
4 import About from './components/About'
5 import Contact from './components/Contact'
6 import BlogsList from './components/BlogsList'
7 import BlogItemDetails from './components/BlogItemDetails'
8 import NotFound from './components/NotFound'
9

```

JSX

```

10 import './App.css'
11
12 const App = () => (
13   <BrowserRouter>
14     <Header />
15     <Switch>
16       <Route exact path="/" component={BlogsList} />
17       <Route path="/about" component={About} />
18       <Route path="/contact" component={Contact} />
19       <Route path="/blogs/:id" component={BlogItemDetails} />
20       <Route component={NotFound} />
21     </Switch>
22   </BrowserRouter>
23 )
24
25 export default App

```

Collapse ^

6. Placing Common component inside Switch

Mistake:

File: src/App.js

```

1 import { BrowserRouter, Route, Switch } from 'react-router-dom'
2
3 import Header from './components/Header'
4 import About from './components/About'
5 import Contact from './components/Contact'
6 import BlogsList from './components/BlogsList'
7 import BlogItemDetails from './components/BlogItemDetails'
8 import NotFound from './components/NotFound'
9
10

```

JSX

```

10 import './App.css'
11
12 const App = () => (
13   <BrowserRouter>
14     <Switch>
15       <Header />
16       <Route exact path="/" component={BlogsList} />
17       <Route path="/about" component={About} />
18       <Route path="/contact" component={Contact} />
19       <Route path="/blogs/:id" component={BlogItemDetails} />
20       <Route component={NotFound} />
21     </Switch>
22   </BrowserRouter>
23 )
24
25 export default App

```

Collapse ^

Solution:

File: src/App.js

```

1 import { BrowserRouter, Route, Switch } from 'react-router-dom'
2
3 import Header from './components/Header'
4 import About from './components/About'
5 import Contact from './components/Contact'
6 import BlogsList from './components/BlogsList'
7 import BlogItemDetails from './components/BlogItemDetails'
8 import NotFound from './components/NotFound'
9
10 import './App.css'
11
12 const App = () => (
13   <BrowserRouter>
14     <Header />

```

JSX

```

15     <Switch>
16       <Route exact path="/" component={BlogsList} />
17       <Route path="/about" component={About} />
18       <Route path="/contact" component={Contact} />
19       <Route path="/blogs/:id" component={BlogItemDetails} />
20       <Route component={NotFound} />
21     </Switch>
22   </BrowserRouter>
23 )
24
25 export default App

```

Collapse ^

7. Providing the same PATH for multiple Routes

Mistake:

- If same path is given for multiple Routes, the Switch renders the first matched Component.

File: src/App.js

```

1  import { BrowserRouter, Route, Switch } from 'react-router-dom'
2
3  import Header from './components/Header'
4  import About from './components/About'
5  import Contact from './components/Contact'
6  import BlogsList from './components/BlogsList'
7  import BlogItemDetails from './components/BlogItemDetails'
8  import NotFound from './components/NotFound'
9
10 import './App.css'
11
12 const App = () => (
13   <BrowserRouter>

```

JSX


```

14     <Header />
15     <Switch>
16       <Route exact path="/about" component={BlogsList} />
17       <Route path="/about" component={About} />
18       <Route path="/contact" component={Contact} />
19       <Route path="/blogs/:id" component={BlogItemDetails} />
20       <Route component={NotFound} />
21     </Switch>
22   </BrowserRouter>
23 )
24
25 export default App

```

Collapse ^

Solution:

File: src/App.js

```

1  import { BrowserRouter, Route, Switch } from 'react-router-dom'
2
3  import Header from './components/Header'
4  import About from './components/About'
5  import Contact from './components/Contact'
6  import BlogsList from './components/BlogsList'
7  import BlogItemDetails from './components/BlogItemDetails'
8  import NotFound from './components/NotFound'
9
10 import './App.css'
11
12 const App = () => (
13   <BrowserRouter>
14     <Header />
15     <Switch>
16       <Route exact path="/" component={BlogsList} />
17       <Route path="/about" component={About} />
18       <Route path="/contact" component={Contact} />

```

JSX

```

18     <Route path="/blogs/:id" component={BlogItemDetails} />
19     <Route component={NotFound} />
20   </Switch>
21 </BrowserRouter>
22 )
23
24
25 export default App

```

Collapse ^

8. Missing Colon(:) while providing Path Parameters

Mistake:

File: src/App.js

```

1  import { BrowserRouter, Route, Switch } from 'react-router-dom'
2
3  import Header from './components/Header'
4  import About from './components/About'
5  import Contact from './components/Contact'
6  import BlogsList from './components/BlogsList'
7  import BlogItemDetails from './components/BlogItemDetails'
8  import NotFound from './components/NotFound'
9
10 import './App.css'
11
12 const App = () => (
13   <BrowserRouter>
14     <Header />
15     <Switch>
16       <Route exact path="/" component={BlogsList} />
17       <Route path="/about" component={About} />
18       <Route path="/contact" component={Contact} />

```

JSX

```

19     <Route path="/blogs/id" component={BlogItemDetails} />
20     <Route component={NotFound} />
21   </Switch>
22 </BrowserRouter>
23 )
24
25 export default App

```

Collapse ^

Solution:

File: src/App.js

```

1  import { BrowserRouter, Route, Switch } from 'react-router-dom'
2
3  import Header from './components/Header'
4  import About from './components/About'
5  import Contact from './components/Contact'
6  import BlogsList from './components/BlogsList'
7  import BlogItemDetails from './components/BlogItemDetails'
8  import NotFound from './components/NotFound'
9
10 import './App.css'
11
12 const App = () => (
13   <BrowserRouter>
14     <Header />
15     <Switch>
16       <Route exact path="/" component={BlogsList} />
17       <Route path="/about" component={About} />
18       <Route path="/contact" component={Contact} />
19       <Route path="/blogs/:id" component={BlogItemDetails} />
20       <Route component={NotFound} />
21     </Switch>
22   </BrowserRouter>
23 )

```

JSX

```
24  
25 export default App
```

Collapse ^

9. Accessing Promise Object

Mistake:

- In the Promise Object response, we got an error message with key `error_msg` but in the below code snippet, we are trying to access the promise object with the wrong key `errorText` so `undefined` will be logged in the console.

File: src/components/LoginForm/index.js

```
1 import {Component} from 'react'  
2 import Cookies from 'js-cookie'  
3 import {Redirect} from 'react-router-dom'  
4  
5 import './index.css'  
6  
7 class LoginForm extends Component {  
8   state = {  
9     username: '',  
10    password: '',  
11    showSubmitError: false,  
12    errorMsg: '',  
13  }  
14  
15   onChangeUsername = event => {  
16     this.setState({username: event.target.value})  
17   }  
18  
19   onChangePassword = event => {  
20     this.setState({password: event.target.value})  
21   }  
22 }
```

JSX

```
21 }
22
23 ▾ onSubmitSuccess = jwtToken => {
24   const {history} = this.props
25
26
27   Cookies.set('jwt_token', jwtToken, {
28     expires: 30,
29   })
30
31   history.replace('/')
32 }
33
34 ▾ onSubmitFailure = errorMsg => {
35   this.setState({showSubmitError: true, errorMsg})
36 }
37
38 ▾ submitForm = async event => {
39   event.preventDefault()
40   const {username, password} = this.state
41   const userDetails = {username, password}
42   const url = 'https://apis.ccbp.in/login'
43   const options = {
44     method: 'POST',
45     body: JSON.stringify(userDetails),
46   }
47   const response = await fetch(url, options)
48   const data = await response.json()
49   console.log(data.errorText)
50 ▾ if (response.ok === true) {
51   this.onSubmitSuccess(data.jwt_token)
52 ▾ } else {
53   this.onSubmitFailure(data.error_msg)
54 }
55 }
56
```

```
57 renderPasswordField = () => {
58   const {password} = this.state
59   return (
60     <>
61       <label className="input-label" htmlFor="password">
62         PASSWORD
63       </label>
64       <input
65         type="password"
66         id="password"
67         className="password-input-filed"
68         value={password}
69         onChange={this.onChangePassword}
70         placeholder="Password"
71       />
72     </>
73   )
74 }
75
76 renderUsernameField = () => {
77   const {username} = this.state
78   return (
79     <>
80       <label className="input-label" htmlFor="username">
81         USERNAME
82       </label>
83       <input
84         type="text"
85         id="username"
86         className="username-input-filed"
87         value={username}
88         onChange={this.onChangeUsername}
89         placeholder="Username"
90       />
91     </>
92   )
}
```

```
93   }
94
95   render() {
96     const {showSubmitError, errorMsg} = this.state
97     const jwtToken = Cookies.get('jwt_token')
98     if (jwtToken !== undefined) {
99       return <Redirect to="/" />
100    }
101    return (
102      <div className="login-form-container">
103        
108        
113        <form className="form-container" onSubmit={this.submitForm}>
114          
119          <div className="input-container">{this.renderUsernameField()}</div>
120          <div className="input-container">{this.renderPasswordField()}</div>
121          <button type="submit" className="login-button">
122            Login
123          </button>
124          {showSubmitError && <p className="error-message">{errorMsg}</p>}
125        </form>
126      </div>
127    )
128  }
```

```
129 }  
130  
131 export default LoginForm
```

Collapse ^

Solution:

File: src/components/LoginForm/index.js

```
1  import {Component} from 'react'  
2  import Cookies from 'js-cookie'  
3  import {Redirect} from 'react-router-dom'  
4  
5  import './index.css'  
6  
7  class LoginForm extends Component {  
8    state = {  
9      username: '',  
10     password: '',  
11     showSubmitError: false,  
12     errorMsg: '',  
13   }  
14  
15   onChangeUsername = event => {  
16     this.setState({username: event.target.value})  
17   }  
18  
19   onChangePassword = event => {  
20     this.setState({password: event.target.value})  
21   }  
22  
23   onSubmitSuccess = jwtToken => {  
24     const {history} = this.props
```

JSX


```
25
26
27   Cookies.set('jwt_token', jwtToken, {
28     expires: 30,
29   })
30
31   history.replace('/')
32 }
33
34   onSubmitFailure = errorMsg => {
35     this.setState({showSubmitError: true, errorMsg})
36   }
37
38   submitForm = async event => {
39     event.preventDefault()
40     const {username, password} = this.state
41     const userDetails = {username, password}
42     const url = 'https://apis.ccbp.in/login'
43     const options = {
44       method: 'POST',
45       body: JSON.stringify(userDetails),
46     }
47     const response = await fetch(url, options)
48     const data = await response.json()
49     console.log(data.error_msg)
50     if (response.ok === true) {
51       this.onSubmitSuccess(data.jwt_token)
52     } else {
53       this.onSubmitFailure(data.error_msg)
54     }
55   }
56
57   renderPasswordField = () => {
58     const {password} = this.state
59     return (
60       <>
```

```
61     <label className="input-label" htmlFor="password">
62       |   PASSWORD
63     </label>
64     <input
65       |   type="password"
66       |   id="password"
67       |   className="password-input-filed"
68       |   value={password}
69       |   onChange={this.onChangePassword}
70       |   placeholder="Password"
71     />
72   </>
73 )
74 }
75
76 renderUsernameField = () => {
77   const {username} = this.state
78   return (
79     <>
80       <label className="input-label" htmlFor="username">
81         |   USERNAME
82       </label>
83       <input
84         |   type="text"
85         |   id="username"
86         |   className="username-input-filed"
87         |   value={username}
88         |   onChange={this.onChangeUsername}
89         |   placeholder="Username"
90       />
91     </>
92   )
93 }
94
95 render() {
96   const {showSubmitError, errorMsg} = this.state
```

```
97     const jwtToken = Cookies.get('jwt_token')
98     if (jwtToken !== undefined) {
99         return <Redirect to="/" />
100     }
101     return (
102         <div className="login-form-container">
103             
108             
113             <form className="form-container" onSubmit={this.submitForm}>
114                 
119                 <div className="input-container">{this.renderUsernameField()}</div>
120                 <div className="input-container">{this.renderPasswordField()}</div>
121                 <button type="submit" className="login-button">
122                     Login
123                 </button>
124                 {showSubmitError && <p className="error-message">{errorMsg}</p>}
125             </form>
126         </div>
127     )
128 }
129 }
130
131 export default LoginForm
```

10. Ordering of Routes inside Switch

Mistake:

- In the below code snippet `NotFound Component` is placed first in the `Switch Component`.
- If the path is not mentioned and route (NotFound Route) is placed first inside Switch, Browser will render it in all the paths.

File: src/App.js

```
1  import {Route, Switch} from 'react-router-dom'
2
3  import Header from './components/Header'
4  import About from './components/About'
5  import Contact from './components/Contact'
6  import BlogsList from './components/BlogsList'
7  import BlogItemDetails from './components/BlogItemDetails'
8  import NotFound from './components/NotFound'
9
10 import './App.css'
11
12 const App = () => (
13   <Header />
14   <Switch>
15     <Route exact path="/" component={BlogsList} />
16     <Route path="/about" component={About} />
17     <Route path="/contact" component={Contact} />
18     <Route path="/blogs/:id" component={BlogItemDetails} />
19     <Route component={NotFound} />
20   </Switch>
21 )
```

JSX

```
21 )  
22  
23 export default App
```

Collapse ^

Solution:

File: src/App.js

```
1  import { BrowserRouter, Route, Switch } from 'react-router-dom'
2
3  import Header from './components/Header'
4  import About from './components/About'
5  import Contact from './components/Contact'
6  import BlogsList from './components/BlogsList'
7  import BlogItemDetails from './components/BlogItemDetails'
8  import NotFound from './components/NotFound'
9
10 import './App.css'
11
12 ▾ const App = () => (
13   <BrowserRouter>
14     <Header />
15     <Switch>
16       <Route exact path="/" component={BlogsList} />
17       <Route path="/about" component={About} />
18       <Route path="/contact" component={Contact} />
19       <Route path="/blogs/:id" component={BlogItemDetails} />
20       <Route component={NotFound} />
21     </Switch>
22   </BrowserRouter>
23 )
24
25 export default App
```

Collapse ^

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