React Router



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

when the URL matches /about, render the About component

<Link to="/about">Click me</Link>

when the user clicks this link, take them to the about page.

let's get our first routes going :)

npm run exercise router 1

matching the index page

this isn't quite what we want

My great app!

Click here to view the about page

this is the home page

this is the about page

exact paths to the rescue

```
<Route path="/" component={Home} />
<Route exact={true} path="/" component={Home} />
<Route exact path="/" component={Home} />
```

NavLink

NavLink

a link that has a css class applied to it when it's active.

Use NavLinks

```
<NavLink activeClassName="active-link" to="/about">
   Click here to view the about page
</NavLink>
```

dynamic URL segments

/user/jack /user/alice

note the :name - this marks it as a dynamic segment of the URL

make the user page output the name of the user

```
const UserPage = props => {
  return this is the user page for {props.match.params.name}
}
```

making API requests

/posts/1

fetch a post based on the URL parameter

hint: this.match.params

npm run exercise router 5

building a blog

```
class Posts extends Component {
 state = { posts: [] }
 componentDidMount() {
   fetch('https://jsonplaceholder.typicode.com/posts? limit=5').then(
     response => {
       this.setState({ posts: response.data })
 render() {
   return (
     <div>
       <l
         {this.state.posts.map(post => {
           return (
             <NavLink to={\'/posts/\${post.id}\'\}>{post.title}</NavLink>
             })}
       <Route path="/posts/:id" component={PostPage} />
     </div>
```

find the bug (hint: think about yesterday's lifecycle exercises)

npm run exercise routing 6

404s and matching only one route

```
<Route path="/foo" ... />
<Route path="/foo" ... />
<Route path="/foo" ... />
<Route path="/foo" ... />
```

by default all of these will match if I'm on the /foo URL

but what if you want a route that is for your 404 page?

<Route component={NotFound} />

a route without a path always matches every URL

<Route component={NotFound} />

but we only want to render that if no other route has matched

```
<Switch>
     <Route path="/about" component
     <Route component={NotFound} />
</Switch>
```

but we only want to render that if no other route has matched

use a <Switch /> to fix the 404 page rendering

npm run exercise router 7

GraphQL

GraphQL

One endpoint that we make a request to, describing the data we want.

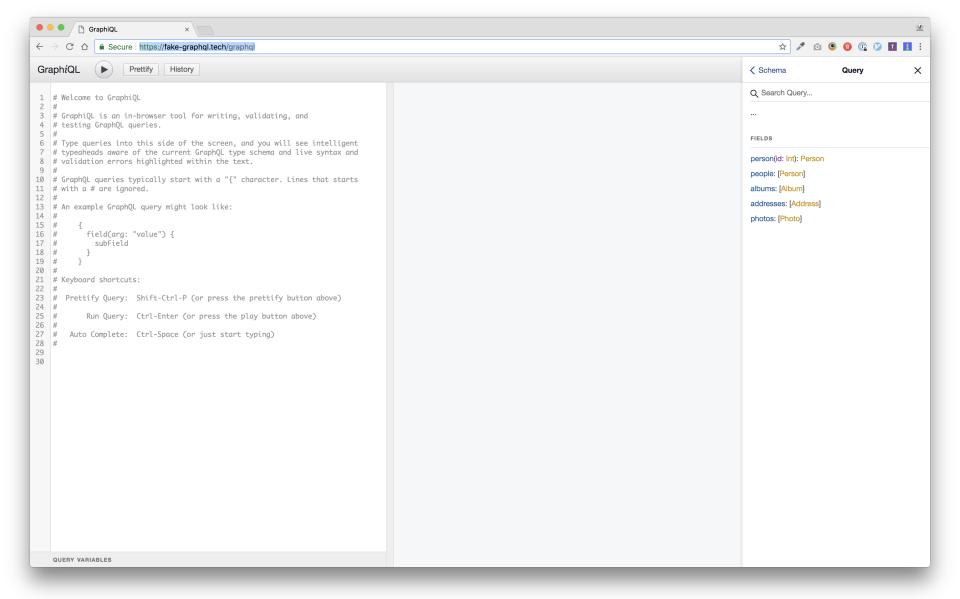
```
// BEFORE:
fetch('/user').then(user => {
  fetch(`/posts?user_id=${user.id}`)
})
```

REST APIs aren't always great when you need to get different resources for a single user

```
// AFTER:
makeGraphQLRequest(`
query {
  user(id: 1) {
    name,
    posts {
      id,
      title
```

in GraphQL we give a query to the API that describes exactly what we want back in one request.

https://fake-graphql.tech/graphql



```
query {
  person(id: 1) {
     name
                  "data": {
                   "person": {
                     "name": "Christine Crooks"
```

Q Search Person...

A fake person

FIELDS

id: ID

name: String

email: String

avatar: String

albums: [Album]

address: Address

```
query {
   person(id:4){
      albums {
         title
             "data": {
               "person": {
                 "albums": [
                     "title": "Quia dolores dignissimos non esse nam corporis."
                   },
                     "title": "Voluptatem amet quisquam quae deserunt veniam nulla sapiente
                   },
                     "title": "Nihil odio neque excepturi."
```

https://github.com/prisma/graphql-request

fetching a person with graphql

That's routing!

Any questions?