React Routing

Routing

Route Parameters

Query String

Redirect

Not Found Pages

Nested Routing

Grab The Code

https://ldrv.ms/f/s!AtGKdbMmNBGdg FZbzU7lchDO1F17w

As Usual A start and a Finish Project

Two apps

- Vidly
- Router-App

npm install react-router-dom

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

https://reacttraining.com/reactrouter/web/guides/philosophy

everything is a component in React Router

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Write a Switch in App.js

```
<Switch>
   <Route path="/not-found" component={NotFound} />
  <Route path="/products" component={Products} />
</Switch>
//NotFound is a component.
//which will be rendered when you redirect to
//localhost:3000/not-found
```

import { Link } from "react-router-dom";

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

Use Link component which is a built in component instead of Home

Why?

Route Props

Route Component is a Router around the component which will be rendered against a url

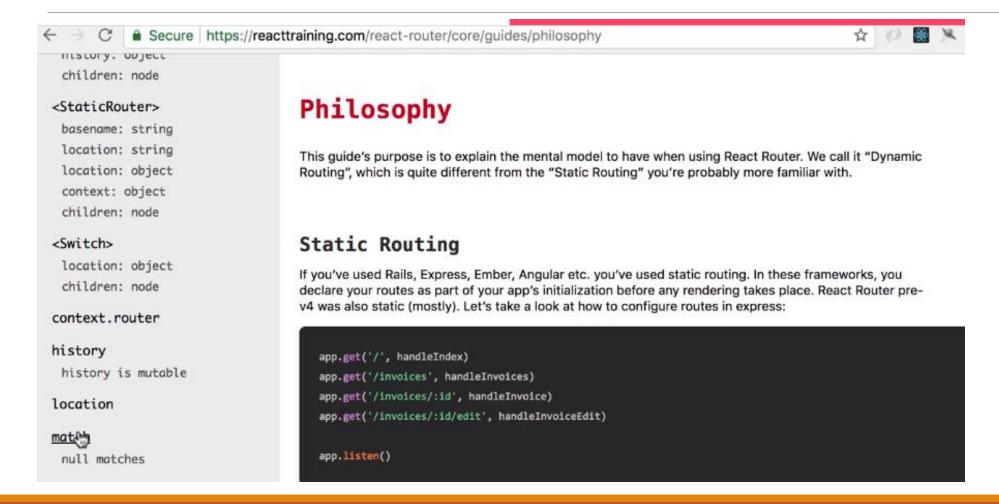
Route will inject additional props

- History
- Location
- Match

Props

- ▶ history: {...}
- ▶ location: {...}
- ▶ match; {...}

Router Docs



Passing Props From Router

```
Previously
<Products sortBy="newest" />
Now
< Route
path="/products"
render={props => <Products sortBy="newest"
{...props} />}
//Instead of passing component we can render whatever we want
```

Route Parameters

```
<Route path="/products/:id"
component={ProductDetails} />
Inside ProductDetails Component render method
  <h1>Product Details -
  {this.props.match.params.id} </h1>
  //match is passed from route
```

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Optional Parameters

```
<Route path="/posts/:year/:month"
component={Posts} />
<Route path="/" exact component={Home} />
```

Year and month are required

If we don't pass any one the route will fail and Home component will be rendered

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Optional Parameters

```
<Route path="/posts/:year?/:month?" component={Posts} />
Then
const Posts = ({ match, location }) => {
 return (
 <div>
  <h1>Posts</h1>
  Year: {match.params.year} , Month: {match.params.month}
 </div>
```

Query String /posts/2018/09?sortBy=newest&published=1

```
npm i query-string
const Posts = ({ match, location }) => {
  const result = queryString.parse(location.search);
  console.log(result);
  return <div> </div>;
};
```

Redirects

```
<Route path="/not-found" component={NotFound} />
<Redirect from="/messages" to="/posts" />
If we add
<Redirect to="/not-found" />
At the end then each unmatched route will be redirected to
/not-found
Remember to add redirect at top
import { Route, Switch, Redirect } from "react-
router-dom";
```

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Programmatic Navigation

```
handleSave = () => {
// Navigate to /products
this.props.history.replace("/products");
};
```

Nested Routing

```
<Route path="/admin" component={Dashboard} />
In Dashboard
<SideBar />
<Route path="/admin/users" component={Users} />
<Route path="/admin/posts" component={Posts} />
//remember to add Route at Top
//import { Route } from "react-router-dom";
```

Nested Routing Scanerio



- Home
- Products
- Posts
- Admin

Admin Dashboard

- Users
- Rests

Admin Posts

Comb the code

Comb both sample examples and learn for yourself

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It's the same code as given in start of this lecture