React

Routing

Code 401 (Class 28)

Routing

http://www.yourapp.com**/**

http://www.yourapp.com**/about**

http://www.yourapp.com**/shop**

The endpoints: /, /about, /shop are user destinations

As with backend, these are known as "Routes"

In React, though -- no server, so the client has to respond

React Router

We will need to use the "BrowserRouter" and "Route" components from react-router-dom. In our app, we will import those explicity:

```
import React from 'react';

import ReactDom from 'react-dom';

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

Notice that we're using Object Deconstruction to pull those

Note also, Webpack will only bundle those components, not all of react-router-dom

Using routers in your app (exact)

- Route Definitions must be contained in an element (sorry)

- Links and Routes must be contained in a router

```
<BrowserRouter>

    <section>

        <Link to="/about">About</Link>

        <Route exact path="/about" component={AboutUs}

    </section>

</BrowserRouter>
```

"exact path" means what it says … when the "exact path" /about is asked for, load up the {Component}

This example assumes you have imported a component called "AboutUs"

Using routers in your app (dynamic)

Route Definitions must be contained in an element (sorry)

```
<BrowserRouter>

    <section>

        <Link to="/topics/john">About John</Link>

        <Route path="/topics:topicId" component={Topics}

    </section>

</BrowserRouter>

…

Const Topic = ({match}) => {

    <div>{this.props.match.params.topicId}</div>

}
```

Sharing State

```
getApp() {
   return {
      State: this.state,
      setState: this.setState.bind(this)
   }
}

<Route exact path='/'
   component={ () => <Dashboard app={this.getApp()} />}
/>
<Route exact path='/about' component={AboutContainer} />
```

Wat?
getApp returns an object, so we want to send the component that object directly, so we need to invoke it. We make the component a function that returns JSX because you can't really do component={component app="..."}. Remember that any function that returns JSX is a component, so we force that here.

Docs

https://reacttraining.com/react-router/web/guides/philosophy