ReactJS

Components and Routing

Recap

- React is more V and some sort of C in MVC
- JSX: 'HTML' in JS
- Virtual DOM: High performance

Today's Plan

- State and Props
- Lifecycle hooks
- Demo 1
- React Router
- Demo 2

State & Props

State

- Component's own property
- Holds mutable state
- this.state.username

Props

- Component's inherited property
- Immutable
- this.props.username

Component Lifecycle

- componentWillMount
- componentDidMount
- componentWillReceiveProps
- shouldComponentUpdate
- componentWillUpdate
- componentDidUpdate
- componentWillUnmount

componentWillMount

- Before render
- Good spot to set initial state

componentDidMount

- After render
- By the time this function gets called component DOM exists
- Good point to call API or external DB calls

componentWillReceiveProps

- Not called on initial render
- Good point to set a state before render

shouldComponentUpdate

- Before render when new state or props come
- Point to restrict the re-rendering

componentWillUnmount

- Before exiting the component
- Clean-up

React Router

- React needs external module for routing
- Facebook team maintain react-router
- Easy to plug-in

Links

- To allow users to navigate around your application
- import {Link} from react-router
- <Link to='/dashboard' value="Login">Login</Link>

Time for Demo!