React Router

Cory House

@housecor | www.bitnative.com

React Router

Nested views map to nested routes

Declarative

Used at Facebook

Inspired by Ember

Route Configuration

Route – Declaratively map a route

DefaultRoute –For URL of "/". Like "index.html".

NotFoundRoute – Client-side 404

Redirect – Redirect to another route

Route Configuration

Params and Querystrings

```
// Given a route like this:
<route path="/course/:courseId" handler={Course} />



// and a URL like this:
'/course/clean-code?module=3'



//The component's props will be populated
var Course = React.createClass({
    render: function() {
        this.props.params.courseId; // "clean-code"
        this.props.query.module; // "3"
        this.props.path; // "/course/clean-code/?module=3"
        // ...
    }
});
```

Params and Querystrings

Links

URL: /user/1

Route: `<route name="user" path="/user/:userId" />`

JSX: `<Link to="user" params={{userId: 1}}>Bobby Tables</Link>`

⬇

`<a href="/user/1">Bobby Tables</a>`

Links

Redirects

Need to change a URL? Use a Redirect.

1. Alias Redirect
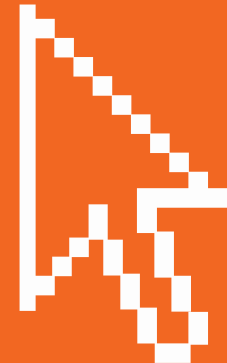
```
var Redirect = Router.Redirect;
```

2. Create a new route

```
<Redirect from="old-path" to="name-of-new-path" />
```

Redirects

Let's create a redirect

Handling Transitions

willTransitionTo – Determine if page should be transitioned to

willTransitionFrom – Run checks before user navigates away

Handling Transitions
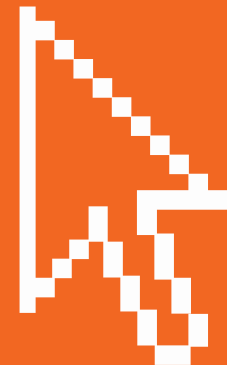
```javascript
var Settings = React.createClass({
    statics: {
        willTransitionTo: function (transition, params, query, callback) {
            if (!isLoggedIn) {
                transition.abort();
                callback();
            });
        },

        willTransitionFrom: function (transition, component) {
            if (component.formHasUnsavedData()) {
                if (!confirm('Sure you want to leave without saving?')) {
                    transition.abort();
                }
            }
        }
    }

    //...
});
```

Transitions

Handle transitions using
willTransitionTo and willTransitionFrom

Hash vs. History URLs

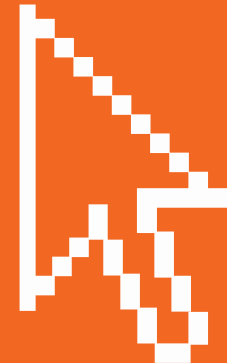## Hash Location

yourUrl.com#/courses

- Ugly URLs

- Works in all browsers

- Not compatible with server-render

History Location

yourUrl.com/courses

- Clean URLs

- IE10+

- Works for server-render

Hash vs. History URLs

Mixins

For cross-cutting concerns

Share code between multiple components

```
var ManageAuthorPage = React.createClass({
    mixins : [
    Router.Navigation,
    Router.State,
    ],
    …
```

Navigation Mixin

//Go to a new route
this.transitionTo('contact')

//Replace current route
this.replaceWith('contact')

//Go back
this.goBack

//Create a URL to a route
makePath(routeName, params, query)

Navigation Mixin

Let's navigate using the React Router navigation mixin

Wrap Up

Declarative routing configuration

"Normalized" anchors via Link

Navigation Mixin