

# React Router

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# Agenda



## React Router

- Route
- URL parameters
- Link
- Redirects
- 404 page
- Page transitions



# React Router



**Popular routing library**

**Declare routes via React components**

- “Load this component for this url”



# Key Components

Router

**Wrap app entry point**

Route

**“Load this component for this URL”**

Link

**Anchors**



# Pick a Router

#about

/about

No URL

**HashRouter**

**BrowserRouter**

**MemoryRouter**



# Demo



## React Router route configuration



# Links (Anchors)

Target URL    `/user/1`

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

JSX          `<Link to="/user/1">Bobby Tables</Link>`

Anchor       `<a href="/user/1">Bobby tables</a>`



# NavLink

```
<NavLink to="/users" activeClassName="active">Users</NavLink>
```





# Demo



## Links and NavLink



# 404 Page

```
<Switch>  
  <Route path="/" exact component={Home} />  
  <Route path="/about" component={About} />  
  <Route component={PageNotFound} />  
</Switch>
```



# Demo



## 404 Page



# Redirects

Need to change the URL? Use a Redirect.

```
<Redirect to="/users" />
```



# Redirects

Need to change the URL? Use a Redirect.

```
{ this.state.redirectToUsers && <Redirect to='/users' /> }
```



# Redirects

Need to change the URL? Use a Redirect.

```
<Redirect from='/old-path' to='/new-path'/>
```



# Programmatic Redirect

```
props.history.push('new/path');
```



# Demo



## Redirect component





# URL Parameters

// Given a route like this

```
<Route path="/course/:slug" component={Course} />;
```

// And a URL like this

myapp.com/course/clean-code?module=3

// Props will be

```
function Course(props) {  
  props.match.params.slug; // clean-code  
  props.location.query; // { module: 3 }  
  props.location.pathname; // /course/clean-code/?module=3  
}
```



# Demo



## URL Parameters



# Page Transitions

```
<Prompt  
  when={isBlocking}  
  message="Are you sure you want to navigate away?"  
>
```



# Summary



## React Router

- Declarative client-side routing
- `<Router>` - Wrap app
- `<Route>` Declare routes
- `<Link>/<NavLink>` - Anchor
- `<Redirect>` or `history` - Redirect
- `<Switch>` - 404 page
- `<Prompt>` - Block page transitions

Next up: Forms

