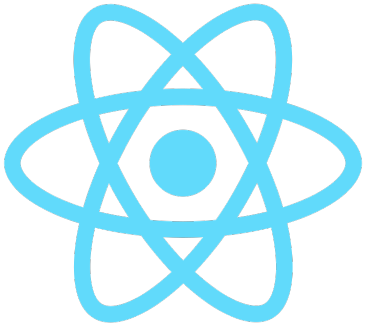

Routing in React

Presented by: Hau Nguyen

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Agenda

- Router
- Route vs Switch vs Redirect
- Link vs NavLink
- Match, Location, History
- Demo
- Q & A

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React Router DOM

Key words

- **Router**
- **Route**: a map from URL to UI component
- **Switch**: group of routes
- **Link**: navigate to URL
- **NavLink**: navigate with active class
- **Redirect**: use to redirect from url to url
- match, location, history

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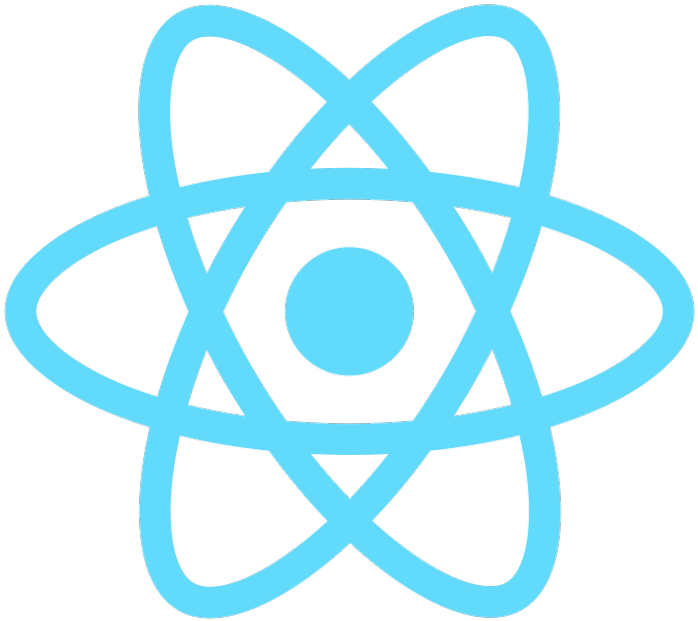
Router

- Router
- **BrowserRouter**
- HashRouter
- StaticRouter
- Memory router



Route vs Switch

Route

- **path**: define pathname
- **exact**: check if pathname is exactly matched or not
- **component**: if matched, which component will be rendered

```
<Route exact path="/" component={Home}/>
<Route path="/about" component={About}/>
<Route path="/:user" component={User}/>
<Route component={NoMatch}/>
```

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Route exact?

Path	URL	Exact	Matched?
/todos	*/todos/123*	YES	***NO***
/todos/:todoId	*/todos/123*	YES	***YES***
/todos	*/todos/123*	NO	***YES***
/todos/:todoId	*/todos*	NO	***?***

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Switch

- A group of **Route**, **Redirect**
- **location**: override current matched location

```
import { Switch, Route } from 'react-router'

<Switch>
  <Route exact path="/" component={Home}/>
  <Route path="/about" component={About}/>
  <Route path="/:user" component={User}/>
  <Route component={NoMatch}/>
</Switch>
```

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Route vs Switch

```
import { Switch, Route } from 'react-router'

<Switch>
  <Route exact path="/" component={Home}/>
  <Route path="/about" component={About}/>
  <Route path="/:user" component={User}/>
  <Route component={NoMatch}/>
</Switch>
```

```
<Route exact path="/" component={Home}/>
<Route path="/about" component={About}/>
<Route path="/:user" component={User}/>
<Route component={NoMatch}/>
```

Link vs NavLink

Link

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

```
<Link to="/courses?sort=name" />
```

```
<Link to="/courses" replace />
```

```
<Link
  to={{
    pathname: "/courses",
    search: "?sort=name",
    hash: "#the-hash",
    state: { fromDashboard: true }
  }}
/>
```

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NavLink

```
<NavLink to="/faq" activeClassName="selected">
  FAQs
</NavLink>
```

```
<NavLink
  to="/faq"
  activeStyle={{
    fontWeight: "bold",
    color: "red"
  }}
>
  FAQs
</NavLink>
```

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Key words

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LIVE DEMO

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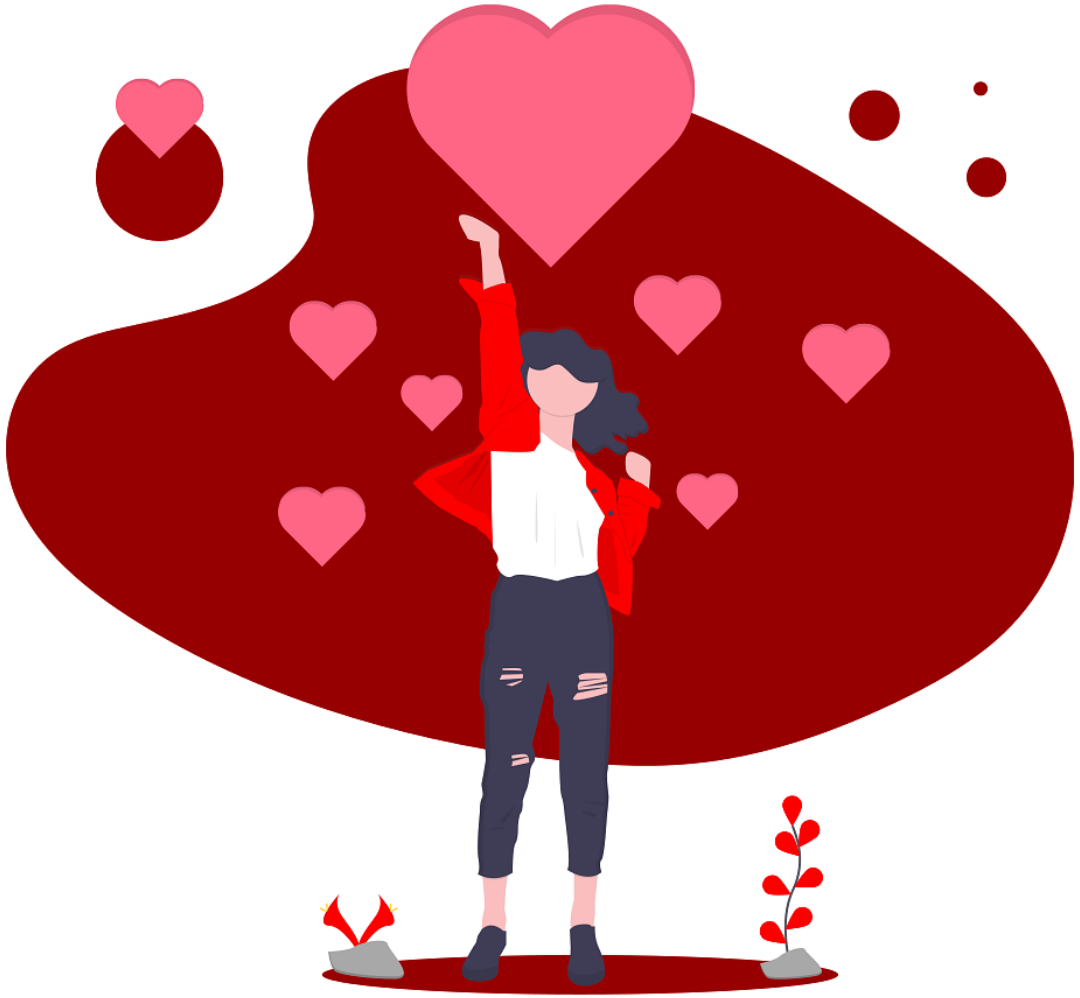
Thank You
And see you ;)



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