



React router!

Routing for winners 🤖👽

What we are going to cover today?

1. Why we need routing?
2. React router as a solution
3. React router components
 1. Routers
 2. Router Matchers
 3. Navigation
4. Hooks? In React router?
5. Two cents  

Why we need routing?

It's a common sense issue!

- Navigation
- Users interactions
- Consume an API

React router as a solution

A routing history

Static Routing

You declare your routes as part of your app's initialization before any rendering takes place

```
app.get("/", handleIndex);  
app.get("/invoices", handleInvoices);  
app.get("/invoices/:id", handleInvoice);  
app.get("/invoices/:id/edit", handleInvoiceEdit);  
  
app.listen();
```

A routing history

Dynamic Routing

Routing takes place as your app is rendering, not in a configuration or convention outside of a running app.

Guess what? React router is... D Y N A M I C! 🌟

React router components

Routers

At the core of every React Router application should be a router component. Should be rendered at the root of your element hierarchy.

Two main options:

1. BrowserRouter
2. HashRouter

Router matches

Switch

When is rendered, it searches through its children **Route** elements to find one whose path matches the current URL.

Route

Component that holds information about the route and the component associated to it.

Notes:

1. More specific (typically longer) paths before less-specific ones
2. The **path** prop matches the **beginning** of the URL, not the whole thing
3. **exact** prop could be useful

Navigation components

Link

Useful to create links in the application. Works over ***anchor*** component.

The main difference is the ***to*** prop.

Navigation Link

Special kind of ***Link*** that allow to add a classname to set ***active*** styles when the user is in the ***path***.

Redirect

We use it to force a redirection

Hooks? In React router?

Hooks everywhere!!

- useHistory
- useLocation
- useParams
- useRouteMatch

My two cents

1. BrowserRouter and production environments
2. When to use HashRouter

Where I can find **information**???

1. [React router Doc's](#)
2. [React router hooks](#)