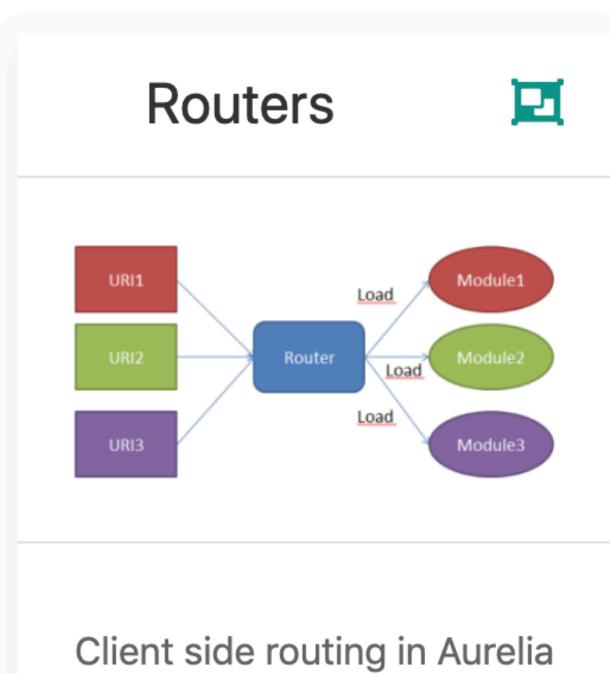
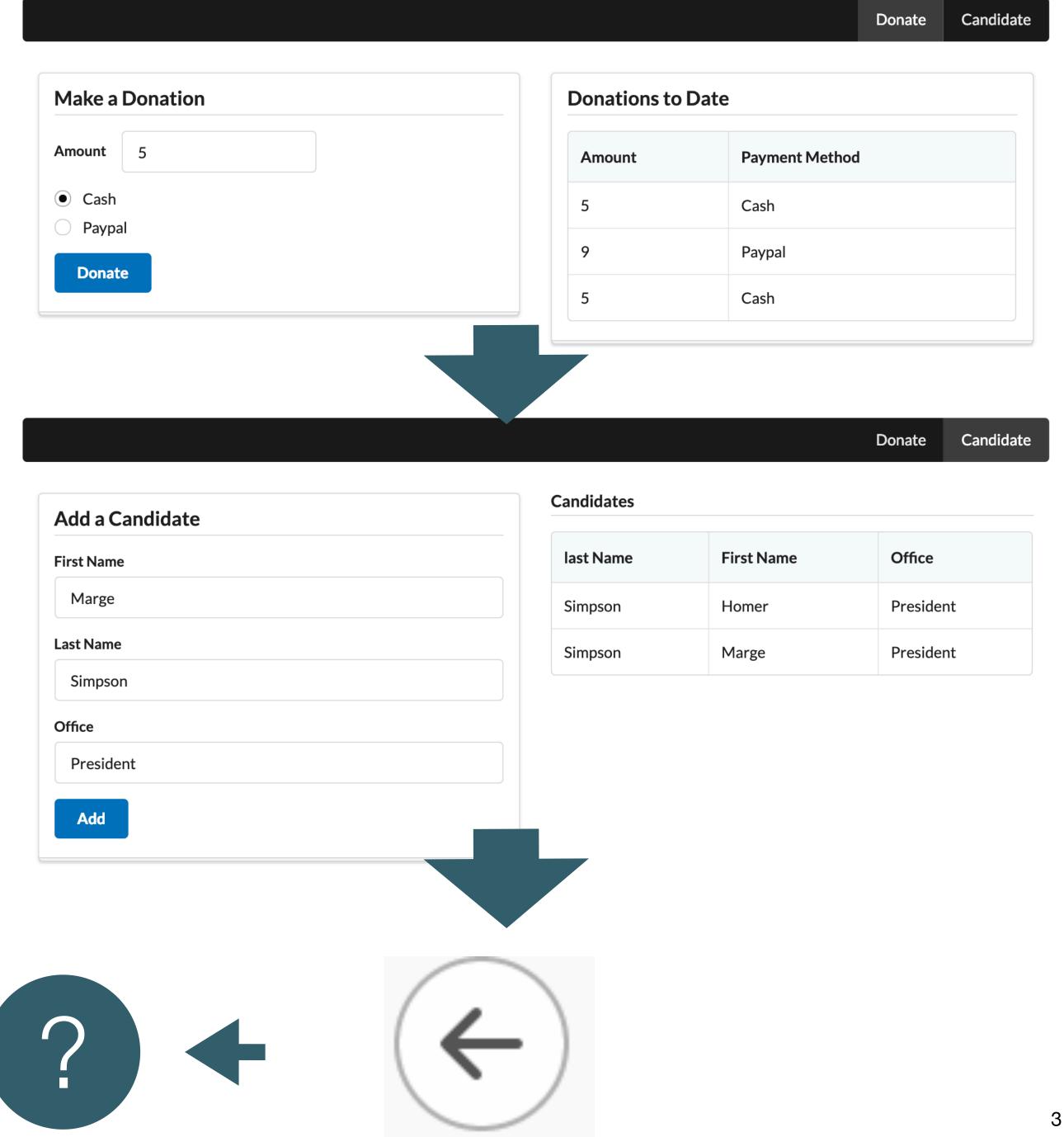
Aurelia Routers



<u>Agenda</u>

- The Back Button
- Fragment Identifiers
- Hash Based Routing
- Routing in Aurelia

- For an SPA, the Back button can have the effect of terminating the app
- Back goes to the previous page but the user may be already several screens into the app.
- The previous page may not concur with the users perception



Fragment Identifiers:

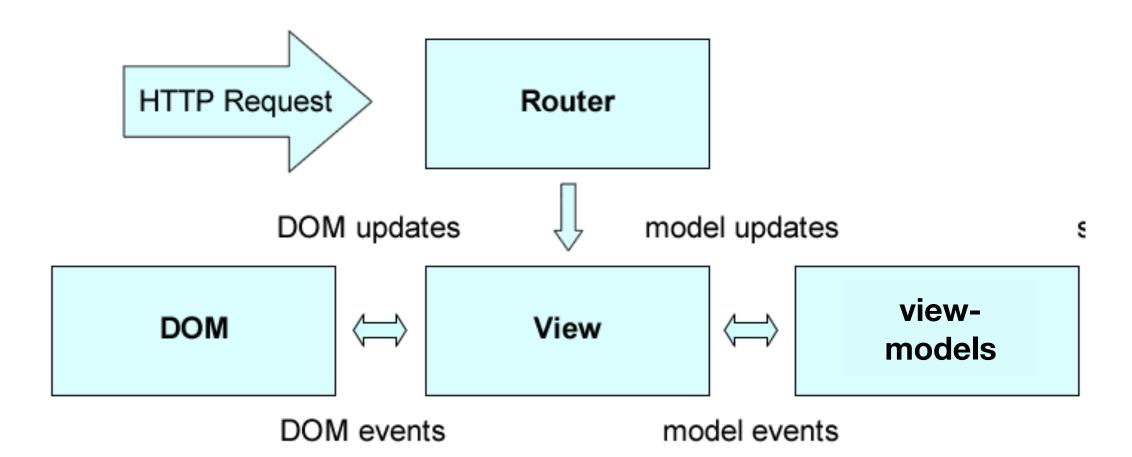
- In URIs a hashmark # introduces the optional fragment near the end of the URL
- The fragment identifier functions differently than the rest of the URI:
 - its processing is exclusively client-side with no participation from the web server
 - Eg:

https://en.wikipedia.org/wiki/Fragment_identifier#References

Hash-based routing

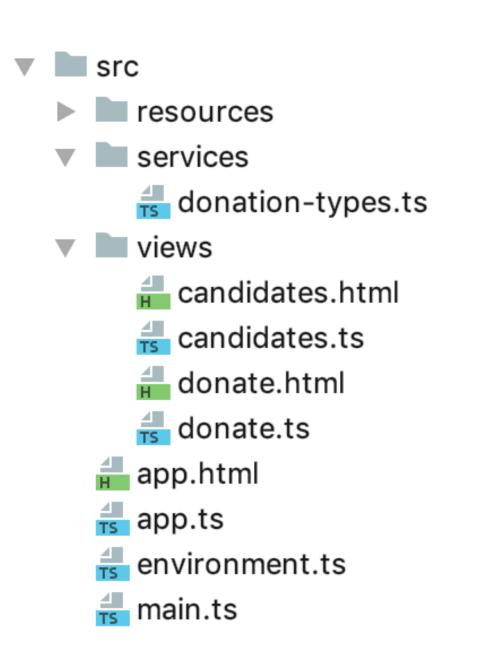
- Use the fragment part of the URL to simulate different content.
 - For example http://site.com/#/products/list leads to displaying a list of products.
 - "#/products/list" is never sent to the server and is completely processed on the client side
- Javascript in the client can collaborate with the browser to maintain the illusion of page navigation
- Requires 'pushstate' api, which permits Javascript to explicitly manipulate the address bar, specifically back button interventions.

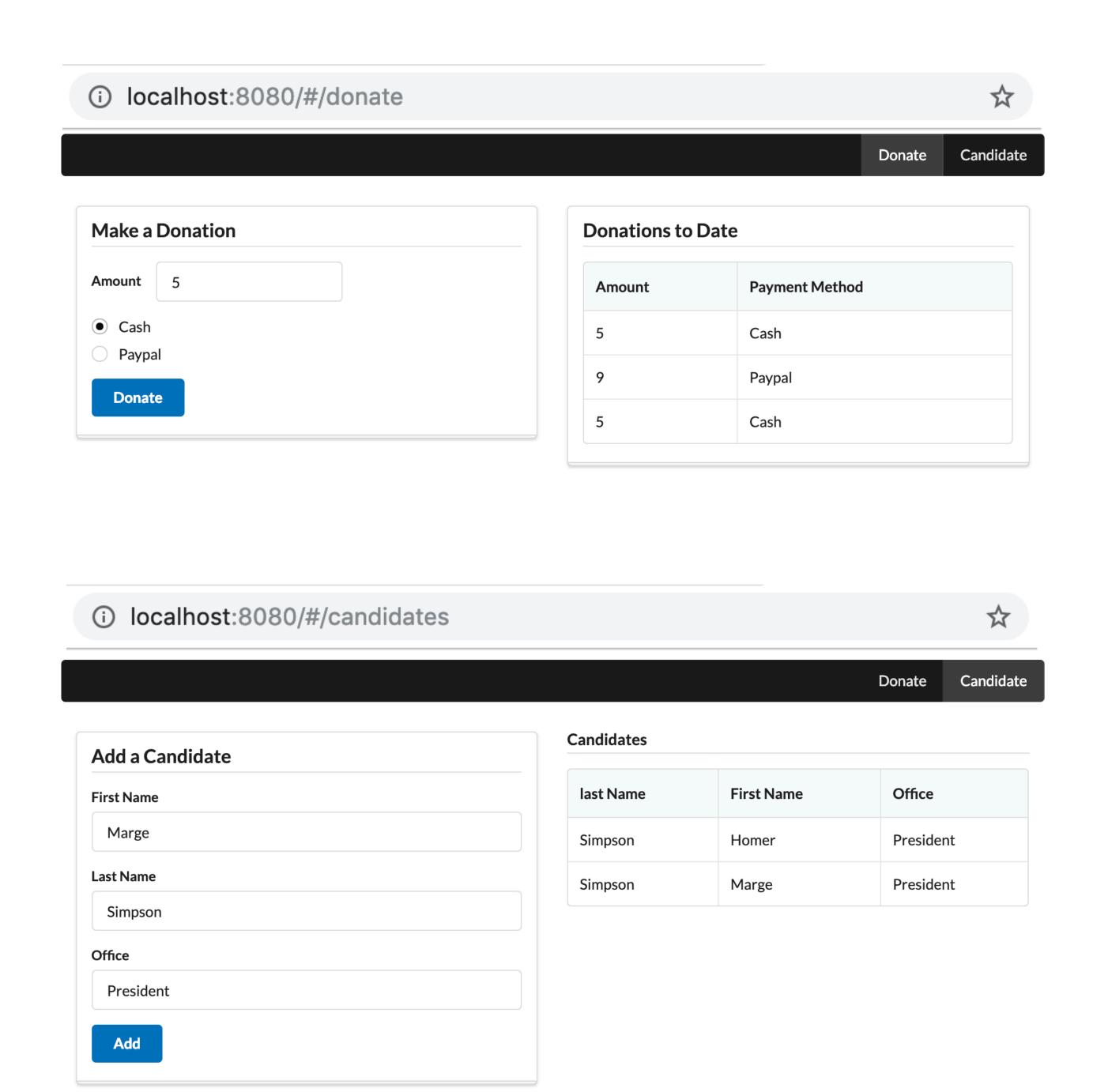
Routing in Aurelia



- Aurelia, link most SPA frameworks, provides a comprehensive client side routing support.
- This mirrors the type of routing familiar from server side development
- As the user navigates a client side app, the routes are inserted into the address bar (after '#' character).
- Back button rolls back to a previous route.

- Forward/Back button navigates as expected between views
- Address bar explicitly indicates which
 "View" is current

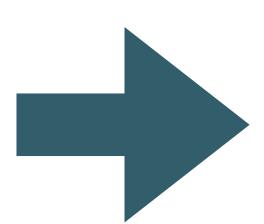




Configuring a Router: app.html

...with generic <router-view>

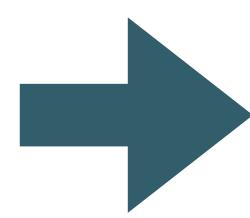
Replace explicit inclusion of <donate>
& <candidates>
custom elements



Configuring a Router: app.ts

```
export class App {
}
```

Define route pattern and associate with View Components



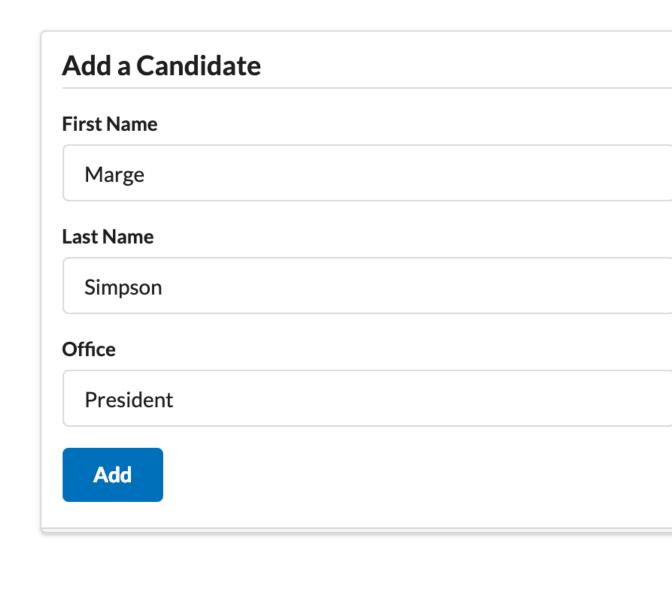
```
import { RouterConfiguration, Router } from 'aurelia-router';
import { PLATFORM } from 'aurelia-pal';
export class App {
  router: Router;
  configureRouter(config: RouterConfiguration, router: Router) {
    config map([
        route: ['', 'donate'],
        name: 'Donate',
       moduleId: PLATFORM.moduleName('views/donate'),
        nav: true,
        title: 'Donate'
        route: 'candidates',
        name: 'candidates',
       moduleId: PLATFORM.moduleName('views/candidates'),
        nav: true,
        title: 'Candidate'
    this.router = router;
```

(i) localhost:8080/#/candidates



Donate Candidate

candidates route



Candidates

last Name	First Name	Office
Simpson	Homer	President
Simpson	Marge	President

```
src
  resources
   services
    donation-types.ts
    views
    andidates.html
    andidates.ts
    adonate.html
    donate.ts
  app.html
  app.ts
  environment.ts
  main.ts
```

```
route: 'candidates',
name: 'candidates',
moduleId: PLATFORM.moduleName('views/candidates'),
nav: true,
title: 'Candidate'
}
```

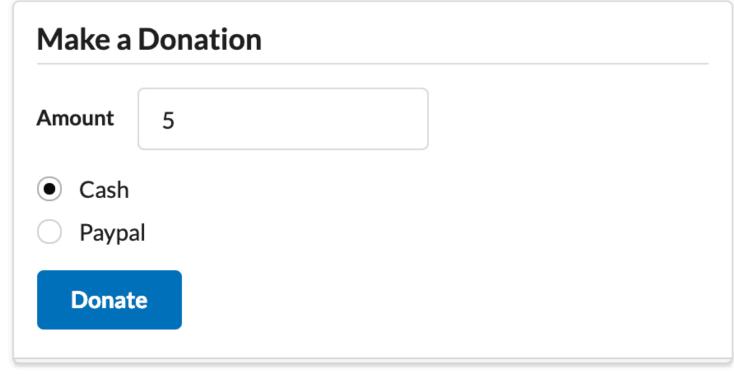
(i) localhost:8080/#/donate

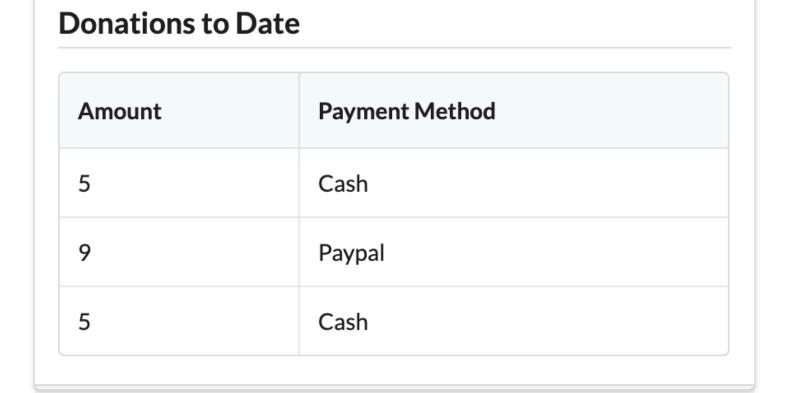


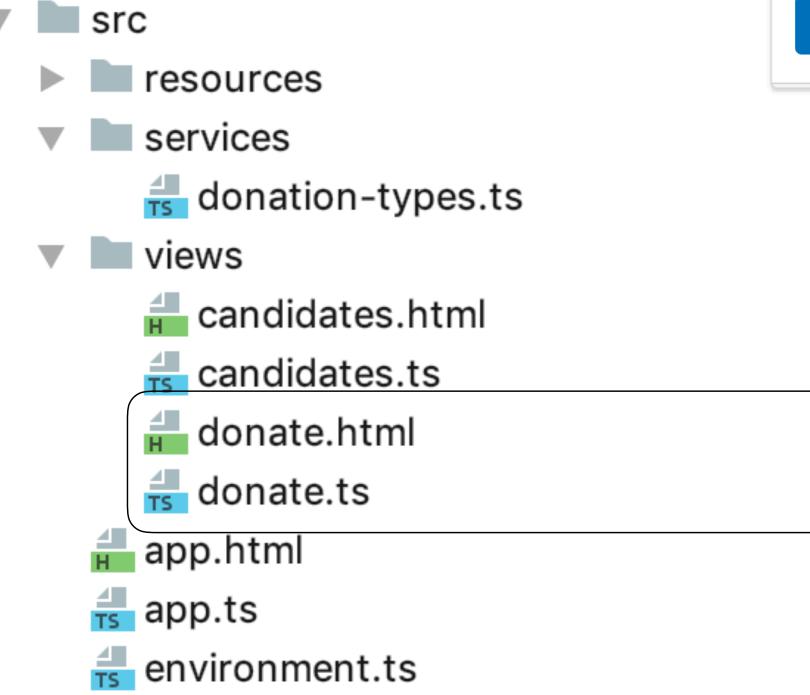
Donate Candidate

donate route

main.ts







```
f
  route: ['', 'donate'],
  name: 'Donate',
  moduleId: PLATFORM.moduleName('views/donate'),
  nav: true,
  title: 'Donate'
}
```

nav-bar.html

import the nav-bar

app.html

iterate through the router array

nav-bar.html

- **route** (required) Either a string or an array of multiple routes (which are strings). If the value supplied is "then it will be used as the default route. Additional route values can be supplied.
- name (required) A unique identifying name for our route. This allows you to reference the route, by generating links or navigating directly to it.
- **moduleId** This is the view-model that you want to be loaded when the route is hit. In the case of our welcome route, it is saying that you want to load src/welcome.js whenever the welcome route is loaded.
- **nav** A boolean value indicating whether or not this route is to be included in the navigation routes array. If this value is true, when iterating over the nav routes array, you'll be able to see it and construct it into a menu. If it is false, then it won't be seen in the navigation routes array.
- **title** The page title value when this route is hit. It will append itself to the provided title value supplied inside of config.title (if supplied).

Route Attributes