Module 3-15

VUE Routing

What is Routing?

- Routing allows users to be redirected to a certain component via a URL.
- Remember MVC Spring RequestMappings? Similar idea.

The router.js file overview

```
import Vue from 'vue'
import Router from 'vue-router'
import Home from './views/Home.vue'
import About from './views/About.vue'
Vue.use (Router)
export default new Router({
 mode: 'history',
 base: process.env.BASE URL,
  routes: [
     path: '/',
      name: 'home',
     component: Home
    },
     path: '/books',
      name: 'books',
      component: Books
```

To define a route, a router.js file is needed. This file is a peer of App.vue.

- There is some boiler plate code beyond the scope of this class, you can carry those over for now, they are highlighted in blue.
- Our focus will be on the sections in red, which we will define.

The router.js file: importing views

We need to first define the components a user can potentially be routed to, this can be achieved through imports:

```
import Home from './views/Home.vue'
import About from './views/About.vue'
import Books from './views/Books.vue'
```

Note that in this example the components are in a folder called views, this should make no difference, Home, About, and Books are VUE components.

The router.js file: importing components.

Next, we define the routes, these physically map the view

components we imported.

```
routes: [
                                                             path: '/',
                                                             name: 'home'.
import Home from './views/Home.vue'
                                                             path: '/about',
                                                             name: 'about',
import About from './views/About.vue'
                                                             component: About
import Books from './views/Books.vue'
                                                             path: '/books',
                                                             name: 'books',
                                                             component: Books
```

Each route is a JSON object, comprised of three key value pairs:

- path: what the user types into the URL
- name: This is how we will refer to the route within App.vue (this is optional)
- component: The component that was imported in, that the user will be redirected to

Adding router links to App.vue

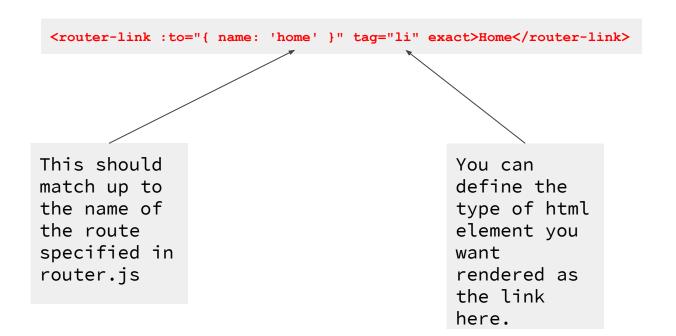
We are almost done! The last step is want to define the routes within App.vue.

```
<template>
 <div id="app">
   <header>
     <router-link :to="{ name: 'home' }" tag="li" exact>Home/router-link>
       <router-link :to="{ name: 'about' }" tag="li">About the Author</router-link>
       <router-link :to="{ name: 'books' }" tag="li">Related Books</router-link>
     </header>
   <router-view class="content"/>
 </div>
</template>
```

Again, this is some boiler plate code highlighted in blue that we can just carry over, what matters is what's in red.

Adding the router links to App.vue

This is the basic structure of a router-link



Let's Implement These Routes!

Dynamic Routing

- Sometimes data is encapsulated within a URL path:
 - Consider the following URL: (account/135)
 - The value 135 could very well be and ID that is associated with a "row" of data.
- The purpose of dynamic routing is to implement these URL parameters.
- Remember MVC Spring PathParams? Similar idea.

Dynamic Routing : router.js

We must first implement a route, where the path parameter contains a placeholder for the path variable.

```
path: '/users/:id',
name: 'user',
component: User
}
```

Dynamic Routing : Defining the Router Links

Here we have a v-for that will iterate through every object in the users array, each time it does so it generates a new router-link with its respective id value.

Two links are generated:

- /users/1
- /users/2

Let's Implement Dynamic Routes!