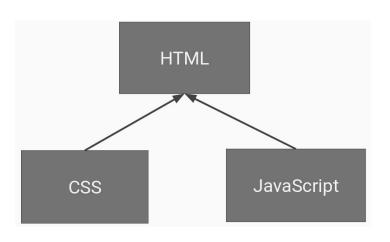
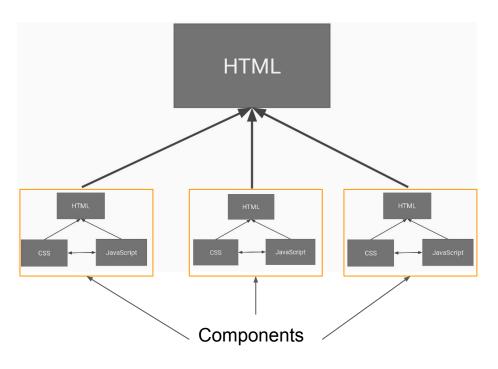
# Module 4 Day 17

**VUE** Router

#### Vue: Evolution of Concepts - HTML to Vue

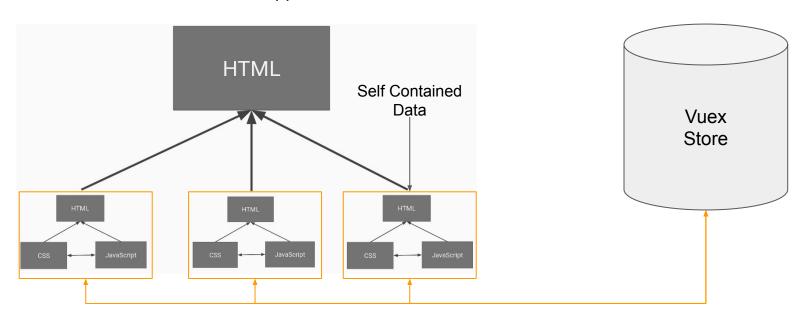
Index.html & App.vue



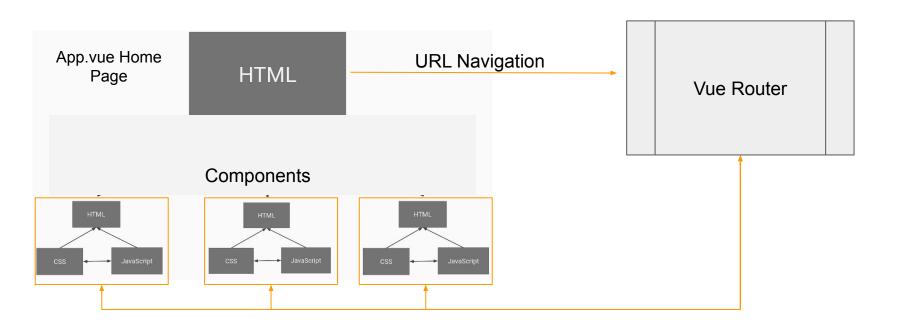


### Vue: Evolution of Concepts - Vue to Vuex

Index.html & App.vue

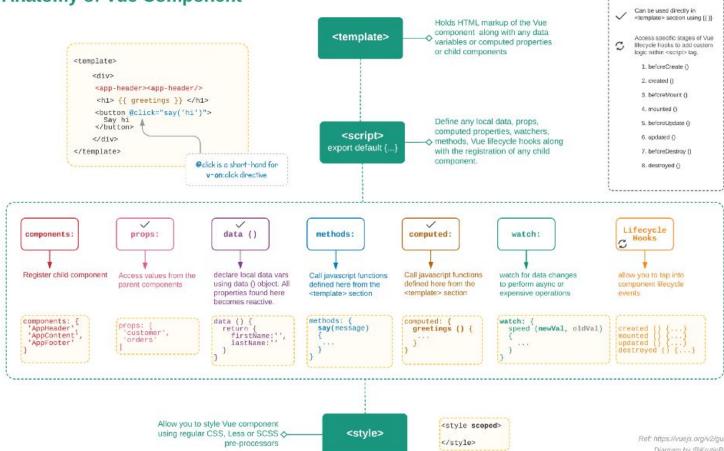


#### Vue: Evolution of Concepts - Site Pages to Routes



#### **Anatomy of Vue Component**

#### Review



Ref: https://vuejs.org/v2/guide/ Diagram by @KrutiePatel As of Vue 2.5

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#### What is Routing?

Routing allows users to be redirected to a certain component via a URL.

 A view component is really like any other component and only differs in how it is called within the SPA framework (app.vue).

#### Vue Router: Creating a View and Route

1 Create View in src/views

2. Update app.vue to include <router-views />

3. Import View in src/router/index.js

4. Add route attributes to Routes Constant



This is JUST LIKE any other component!

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

#### The Vue Router index.js file overview

To define a route, an index.js file is needed. This file is functionally a peer of App.vue and lives in the ./src/router directory.

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

- 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 define.
- NOTE: mode and base values can be modified but our outside the scope of this lecture

### The index.js file: Importing Views

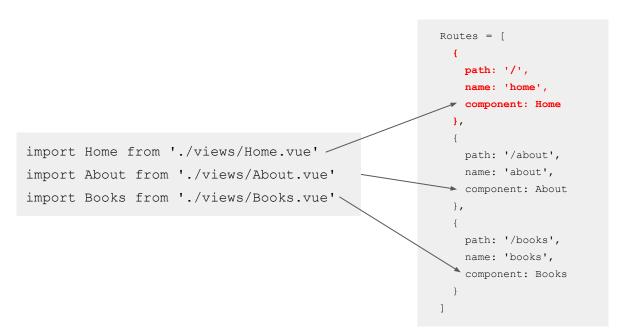
We need to first define the components a user can potentially be routed to, this can be achieved through imports:

```
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 index.js file: Assigning Routes to Views

Next, we define the routes, these physically map the view components we imported.



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
- component: The component that was imported in, that the user will be redirected to

#### Adding Router Navigation Links to App.vue

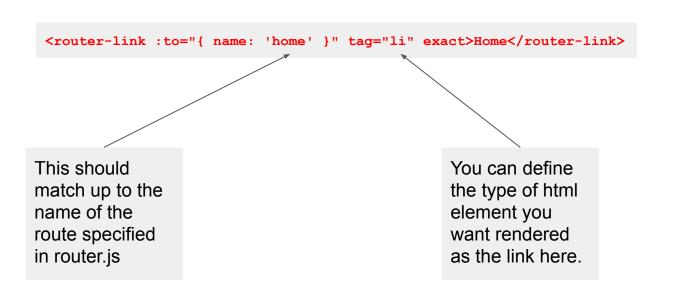
We are almost done! The last step is want to define the routes within App.vue.

```
<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>
     </111>
   </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



### 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 pass these URL parameters through the application.

#### Dynamic Routing: index.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

#### We can now define 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 Routes!