Nuxt Project

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What is NUXT?

- **Framework** for building web applications
- Built off of **VUE.js**
- Allows it to be a **full stack** web application
  - Routing
  - Data Fetching
  - Caching
  - Development
  - Testing
- Enjoyed the site that we made with REACT
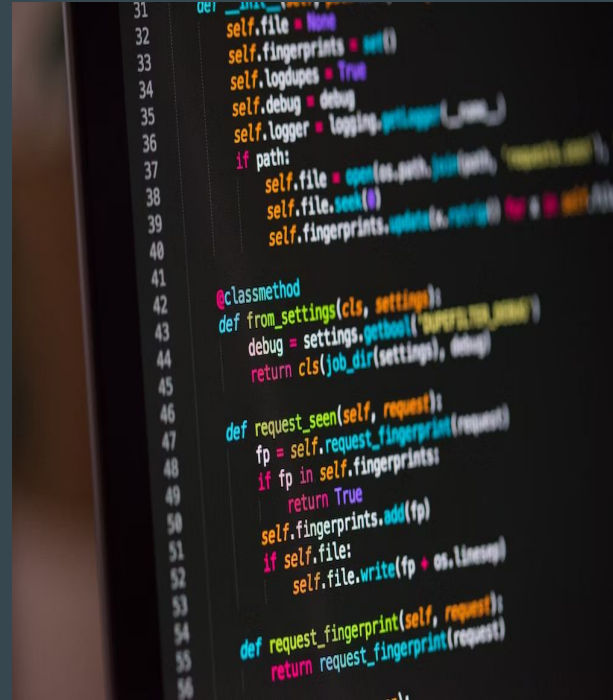 - How would it look in NUXT?

What is Vue?

- JavaScript Framework
  - Used language inside of NUXT
  - Tool to develop **frontend** UI
  - Allows for
  - **Component** based structure
  - Encapsulates HTML, CSS, JavaScript
  - Reactive data binding

Project Structure Differences:

- NUXT/VUE
    - **Predefined structure** for a full stack project using VUE/NUXT
    - The **pages** directory
    - The **components** directory
    - Crucial role in setting up the order and the structure of your website and allowing for code reusability.

Pages inside of Nuxt

- Directory inside of NUXT
  - Underneath the pages folder we can define the different **paths** for the website.
  - Individual VUE files are registered as **different pages** if under the pages directory.
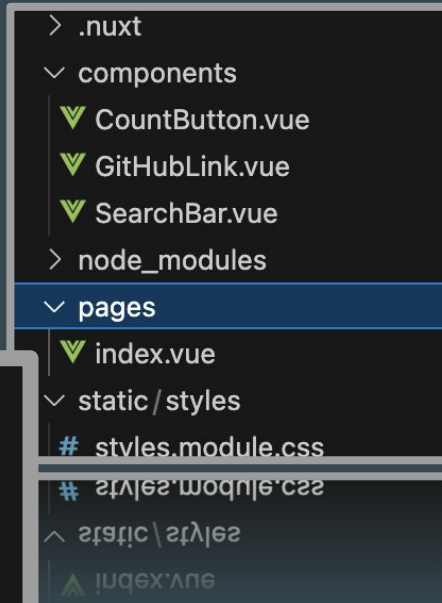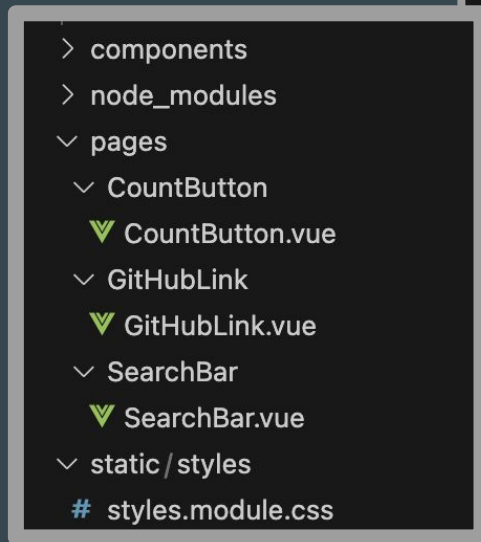
Components inside of Nuxt

- Directory
  - This where you place **reusable code**
  - That way that you can refer to it throughout the rest of the code
  - Instead of having to import it, you can refer to the **component name**.
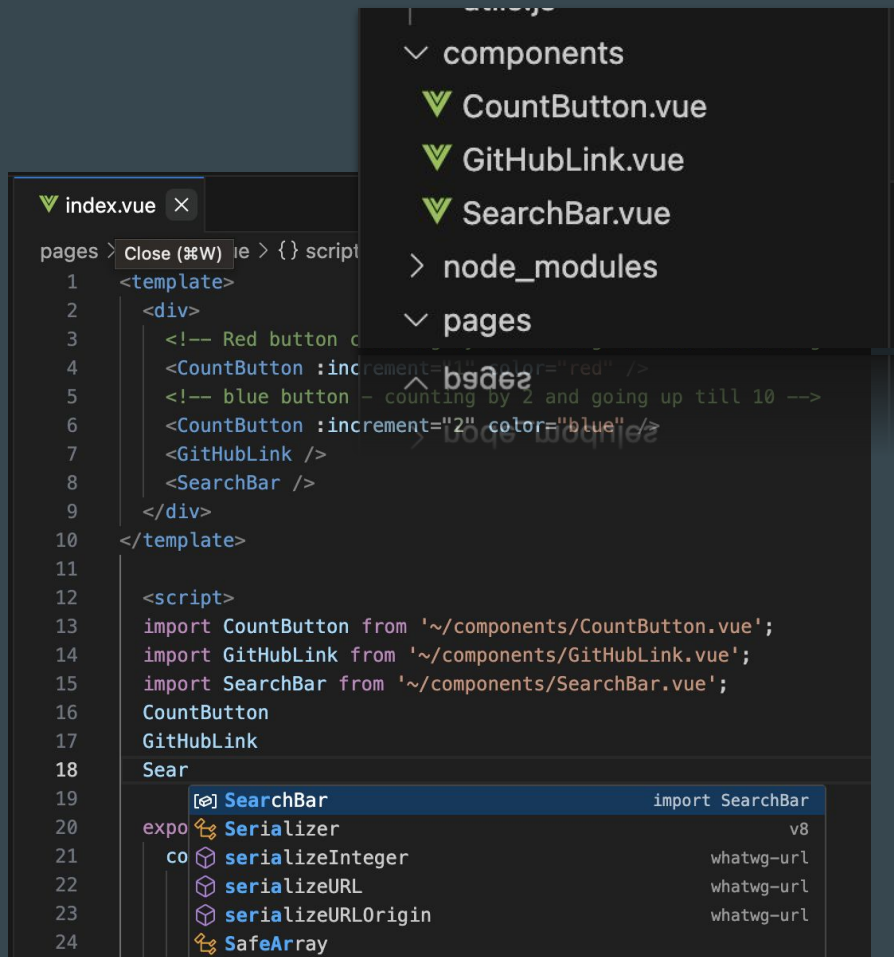
Styling

- React
  - Similar to Html

- Nuxt
  - NUXT.js encourages the use of **scoped styling**
  - Helps things become more clearer
    - Less issue of cascading style sheets
  - Styling SCOPED to this component and not others.

```
52
53   <style scoped>
     1 reference
54   .productsContainer {
55     display: flex;
56     flex-wrap: wrap;
57     justify-content: space-around;
58     max-width: 1200px;
59     margin: 0 auto;
60   }
61
     1 reference
62   .product {
63     width: 200px;
64     border: 2px solid ▩darkgray;
65     margin: 10px;
66     padding: 8px;
67     text-align: center;
68     border-radius: 8px;
69     overflow: hidden;
70   }
71
     1 reference
72   .product img {
73     max-width: 100%;
74     max-height: 100%;
75     object-fit: contain;
76     border-radius: 6px;
77   }
78   </style>
79
```

Full Stack

- NUXT handles the **Client** and the **Server**.
- **Automatically re-compiles** as you make changes to the code.

```
✔ Server
  Compiled successfully in 97.57ms

⟳ Updated pages/index.vue

✔ Client
  Compiled successfully in 84.30ms

● Server  [          ]  compiling (0%)

● Client  [████████    ]  building (54%) 3/4 modules 1 active
  css-loader › vue-loader › postcss-loader › vue-loader › pages/index.vue

● Server  [████████    ]  building (54%) 3/4 modules 1 active
  css-loader › vue-loader › postcss-loader › vue-loader › pages/index.vue

● Client  [█████████   ]  emitting (95%)
  vue-client-plugin

✔ Server
  Compiled successfully in 97.02ms

✔ Client
  Compiled successfully in 90.20ms

✔ Server
  Compiled successfully in 97.02ms

⟳ Updated pages/index.vue

✔ Client
  Compiled successfully in 93.00ms

✔ Server
  Compiled successfully in 115.04ms

⟳ Updated pages/index.vue

✔ Client
  Compiled successfully in 59.02ms

✔ Server
  Compiled successfully in 68.60ms
```

```
⟳ Updated .nuxt/index.js
✔ Nuxt files generated
✔ Nuxt files generated
✔ Nuxt files generated (repeated 2 times)

✔ Client
  Compiled successfully in 412.45ms

✔ Server
  Compiled successfully in 370.99ms
```

Something familiar...

- NUXT still uses **npm...**
- Very similar to react project...

Run:

- $ npm run build
- $ npm run start
- $ npm run dev

Placed the project on a **specified port**.

```json
{} package.json  ✕

{} package.json > {} scripts > 🔤 start
1   {
2       "name": "nuxtjs",
3       "version": "1.0.0",
4       "description": "",
5       "main": "index.js",
    ▷ Debug
6       "scripts": {
7         "dev": "nuxt dev –p 3020",
8         "build": "nuxt build",
9         "start": "nuxt start –p 3020"
10      },
11      "keywords": [],
12      "author": "",
13      "license": "ISC",
14      "dependencies": {
15        "nuxt": "^2.15.8"
16      }
17  }
18
```

React vs Nuxt

Thank you!!! :)

NUXTPROJ
- .nuxt
  - components
  - layouts
  - mixins
  - views
  - App.js
  - client.js
  - empty.js
  - index.js
  - jsonp.js
  - loading.html
  - middleware.js
  - router.js
  - router.scrollBehavior.js
  - routes.json
  - server.js
  - utils.js
- components
  - CountButton.vue
  - GitHubLink.vue
  - SearchBar.vue
- node_modules
- pages
  - index.vue
- static / styles
  - styles.module.css
- .gitignore
- package-lock.json
- package.json

NEXTJS331
- .next
  - cache
  - server
  - static
  - types
  - app-build-manifest.json
  - build-manifest.json
  - package.json
  - react-loadable-manifest.json
  - trace
- app
  - CountButton
    - CountButton.jsx
  - SearchBar
    - SearchBar.jsx
  - GitHubLink.jsx
  - layout.tsx
  - page.tsx
- node_modules
- public
  - favicon.ico
- styles
  - styles.module.css
- next-env.d.ts
- package-lock.json
- package.json
- tsconfig.json