

## Practice 1: Getting started with VueJs

We are going to do some practice with Front-end Web Development. By using VueJs, let's create some basic components.

### 1. Verify your computer

Make sure that your computer have necessary tools/software so that you can start working with VueJs:

1

Make sure you have an up-to-date version of Node.js installed. Current stable version is **18.18.2 LTS**. You can try checking if nodejs is already installed and its version:

```
> node --version
v18.16.0
```

<= This is the output of the above command, it also prove you have nodejs installed

Go to <https://nodejs.org/en/download> if you need to download the software

2

We are going to use Visual Studio Code as our IDE.

Go to <https://code.visualstudio.com> if you need to download the software

Some visual studio code extensions are also needed:

- + **Vetur** or **Volar** if you are going to use typescript
- + **ESLint** : Code format issue corrector
- + **Prettier** : Code formatter

### 2. Initialize a VueJs project

By using Node Package Manager (npm), you can initialize a VueJs project:

```
> npm create vue@latest
```

This command will create a new folder with some files in it. These are some file structures needed for your VueJs project. You will see something like the image below, you may input the data just like the given image.

## Vue.js – The Progressive JavaScript Framework

- ✓ **Project name:** ... e-commerce
- ✓ **Add TypeScript?** ... [No](#) / Yes
- ✓ **Add JSX Support?** ... [No](#) / Yes
- ✓ **Add Vue Router for Single Page Application development?** ... No / [Yes](#)
- ✓ **Add Pinia for state management?** ... No / [Yes](#)
- ✓ **Add Vitest for Unit Testing?** ... No / [Yes](#)
- ✓ **Add an End-to-End Testing Solution?** > No
- ✓ **Add ESLint for code quality?** ... [No](#) / Yes

Scaffolding project in /Users/qiurui/Projects/gic2023/e-commerce...

Done. Now run:

```
cd e-commerce
npm install
npm run dev
```

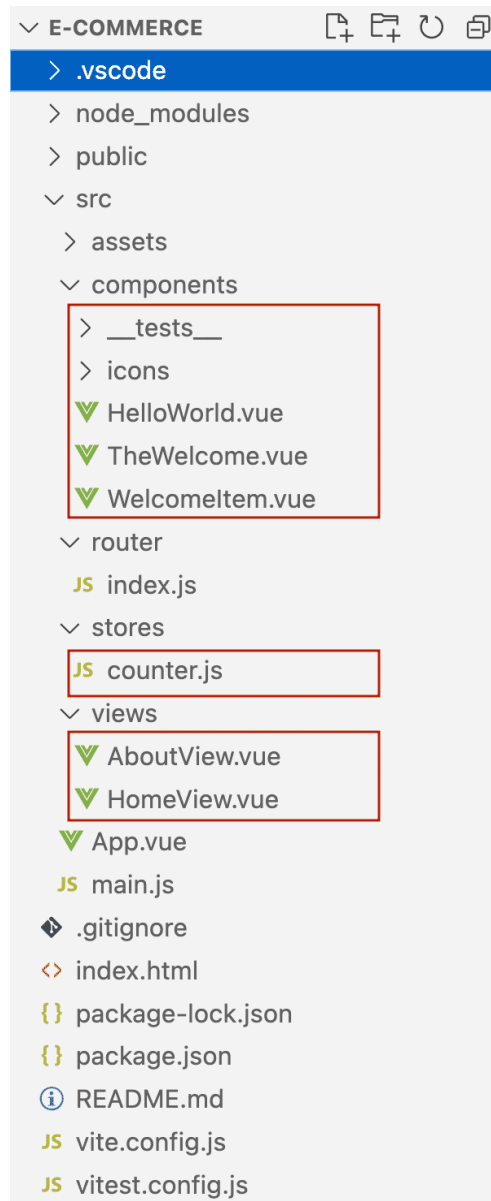
The output of previous command.

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After running "**npm install**" and "**npm run dev**" in the folder that you have just created, your first application will be ready and accessible.  
Go to <http://localhost:5173/> to access your Vuejs application.

### 3. Let's clean some unused code

The scaffolding project come with a few example files. We don't really need them, so let's just remove those that are not needed.



Let's remove the marked files. We will create them from scratch.

You will have some error notification in your console of developer tools (your browser).

**TASK 1:** Fix your project so that your application can run normally. Display:

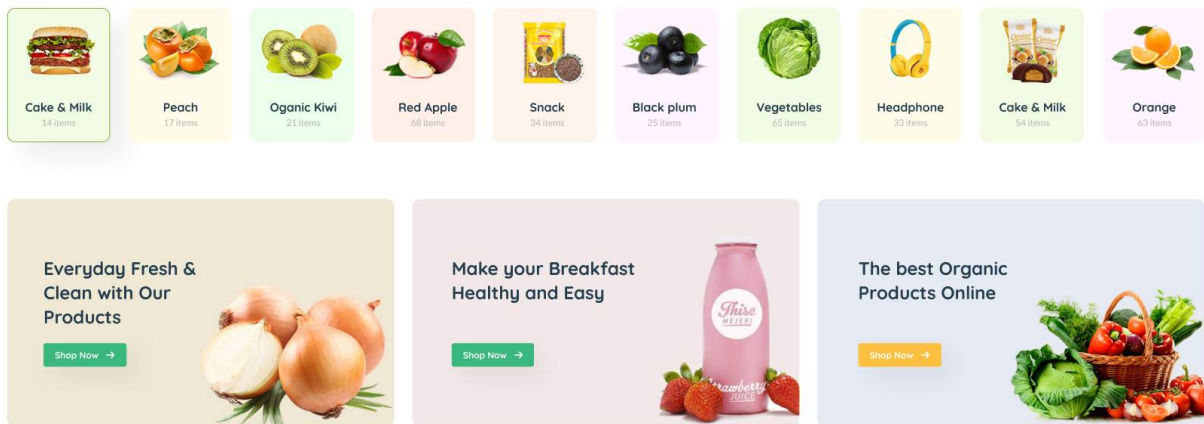
*"This is my first VueJs project"*

from your root component.

## 4. Create some basic components

Let's create some basic components inside the "components" folder.

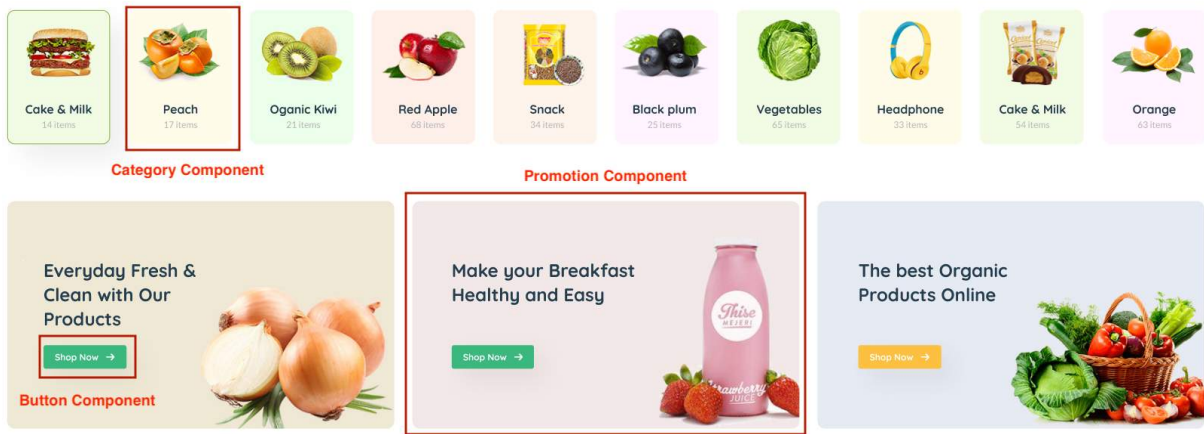
We are going to render our root component with the following design. But instead of render them in a single component, we will separate into multiple components.



The final root component, after rendering.

You can refer to the figma link here: <https://www.figma.com/file/365MrAv8OiWgwbDhMrojAJ/gic2023-Practice?type=design&node-id=0-1&mode=design>

Let's figure out on what are the basic components that we should create. Note that, basic component here refer to a section of UI that should be build separately and we can use reuse again and again.



We can come up with 3 components

**Task 2:** Create 3 components inside the "components/" folder. Then, register the 3 components inside the root component to have the exact mockup.

Note that text, image, color are all dynamic. We want to use the 3 components that we created above and render them again and again with different information.