# LARGE SCALE APPS with VUE, VITE and TYPESCRIPT



```
const stack: [

"Vue",

"Vite",

"STypeScript",

"Vitest",

"~TailWind CSS"
]
```

# Large Scale Apps with Vue, Vite and TypeScript

Build Large and Scalable front-ends that leverage component isolation, internationalization, localization, a modular state manager, component Libraries, API-client code that easily can switch between mocked data and live data and more.

#### Damiano Fusco

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# LARGE SCALE APPS WITH VUE, VITE, AND TYPESCRIPT

This book is a guide for developers looking to build large-scale front-end applications with Vue and TypeScript. With the growth of the web and mobile app development, there is an increasing demand for robust, scalable, and maintainable front-end solutions. This book provides a comprehensive approach to building large scale code bases that use Vue and TypeScript.

The book covers key concepts and best practices like:

- Building front-ends that can grow to a large code base that is organized and easy to expand and maintain.
- **Development of UI components in isolation** using an API client that can easily serve live data or mocked data.
- Centralized State Manager organized into domain/area modules, providing a unified and consistent way to manage the application state.
- **Internationalization and Localization** for language translation and number/dates formatting according to a specific culture, making it easier to reach a global audience.
- **TypeScript** type-checking at development time to decrease run-time bugs or errors, reducing the risk of costly bugs and enhancing the overall quality of the code.
- Directory structure, file, and code naming conventions, ensuring a consistent and organized project structure for both developers and future maintainers.
- Hooks and Compositional Patterns, providing a flexible and reusable way to implement functionality in components.
- Components Libraries, allowing developers to build a library of reusable components, reducing development time and increasing code quality.
- **Unit tests** for models and components, ensuring code quality and reducing the risk of regressions.

The book is designed for developers with intermediate to advanced Vue and TypeScript skills who are looking to take their applications to the next level. Whether you are building a new large-scale app or optimizing an existing one, this book will provide you with the tools and knowledge to achieve your goals. Throughout the book, practical examples and real-world scenarios are used to illustrate key concepts and best practices, providing you with a solid understanding of how to build large scale apps with Vue and TypeScript.

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# **Preface**

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## Goal

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#### **Thanks**

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## About me

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# **Audience**

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# **Text Conventions**

# **Prerequisites**

This book assumes that you are familiar with the **terminal** (**command prompt** on Windows), have already worked with the **Node.js** and **NPM** (**Node Package Manager**), know how to install packages, and are familiar with the **package.json** file.

It also assumes you are familiar with **JavaScript**, HTML, CSS and in particular with HTML **DOM** elements properties and events.

It will also help if you have some preliminary knowledge of **TypeScript**<sup>1</sup> as we won't get into details about the language itself or all of its features but mostly illustrate how to enforce type checking at development time with it.

You will need a text editor like **VS** Code or Sublime Text, better if you have extensions/plugins installed that can help specifically for Vue code. For VS Code for example, you could use extensions like **Volar**<sup>2</sup> (just search for it within the VS code extensions tab).

<sup>&</sup>lt;sup>1</sup>https://www.typescriptlang.org

<sup>&</sup>lt;sup>2</sup>https://marketplace.visualstudio.com/items?itemName=vue.volar

# **Companion Code**

# **Chapter 1 - Setting Up The Project**

**IMPORTANT**: This chapter assumes that you already have installed a recent version of **Node.js** on your computer. If you do not have it yet, you can download it here: https://nodejs.org/en/download/

There are many different ways to create a Vue app. Here we'll be leveraging TypeScript and therefore will need to setup an project with a build/transpile process that will let us make changes and verify them in real time. You could manually create this project, install all the npm packages required, create each individual file. However, it is just much easier to do this by leveraging vite<sup>3</sup>

# **Create Project Wizard**

To set up the project, use the terminal and execute the following node.js command:

```
npm init vite@latest
```

If you do not have already installed the package create-vite@latest4 it will prompt you to install it. In this case, type y and then **enter** to proceed:

```
Need to install the following packages:
    create-vite@latest
Ok to proceed? (y)
```

The create-vite wizard will start and will ask you the name of the project. The default is vite-project, so change this to **my-vue-project** and hit enter:

```
? Project name: > my-vue-project
```

The second step will ask to select a framework. Use the keyboard arrows to scroll down the list and stop at vue, then hit enter:

<sup>&</sup>lt;sup>3</sup>https://vitejs.dev

<sup>&</sup>lt;sup>4</sup>https://www.npmjs.com/package/create-vite

```
? Select a framework: > - Use arrow-keys. Return to submit.
    vanilla

□ vue
    react
    preact
    lit
    svelte
```

The third step will asking which "variant" you want o use. Scroll down to **vue-ts** (this is for the version that uses TypeScript) and hit enter:

```
? Select a variant: > - Use arrow-keys. Return to submit.
    vue
    vue-ts
```

This will create a folder called **my-vue-project** which is also the name of our project. At the end it should display a message similar to this:

```
Scaffolding project in /Volumes/projects/my-vue-project...

Done. Now run:

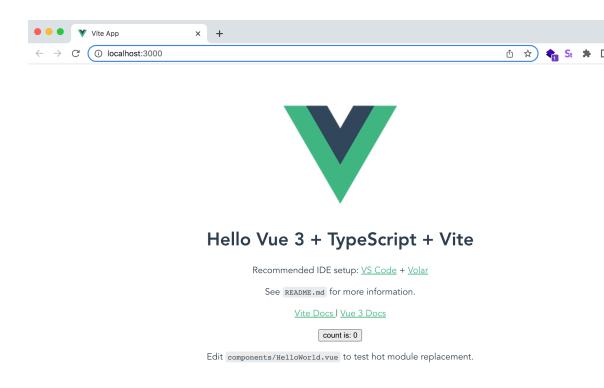
cd my-vue-project

npm install

npm run dev
```

The first command will navigate to the current sub-directory called **my-vue-project**, the second one will install all the npm dependencies, the third one will serve the app locally. You'll see a message similar to this displayed:

From the web browser, navigate to the http://localhost:3000 address and you'll see application home page rendered:



The my-vue-project has been created with the main view called App.vue and a component called HelloWorld.vue which displays some static links to additional Vue resources plus an example of a simple counter.

# **Chapter 1 Recap**

#### What We Learned

How to create the basic plumbing for a **Vue** app using the **vite** and create-vite@latest

• How to serve the app locally through the command npm run dev

#### **Observations**

- The app has been created with only preliminary code
- The app does not do much yet, has only the main App view with some static html in it and a reference to a simple component called Counter

Based on these observations, there are a few improvements that will be making into the next chapter:

# **Improvements**

• Expand our app functionality by creating our first component

# **Chapter 2 - Your First Component**

# The Items List

Let's now pretend we have been giving requirements for our app to have a component that displays a list of "items". We will keep this simple initially and as we move towards more advanced chapter expand on it to show how we can better structure our application to support:

- Quick prototyping and development using mocked data
- Component Organization
- Unit Testing
- State Management
- Internationalization support so we can render our user interface using different languages
- Localization for number and date formatting for different cultures

# **ItemsList Component Requirements**

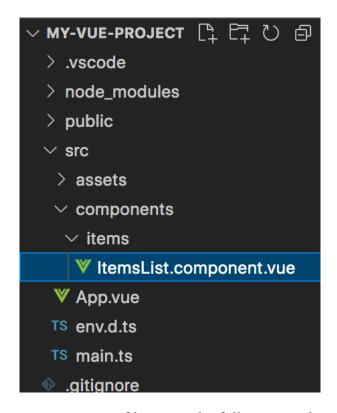
Your initial version of the **ItemsList** component, will have to implement the following requirements (later, in more advanced chapters, we will expand on these as we get into more advanced topics):

- The component will display a list of items
- An **item** will have 3 properties:
- \* id
- \* name
- \* selected
  - The item **name** will be displayed to the user
  - The user should be able to **select/deselect** one or more item
  - An icon will be shown next to the name to indicate if the item is selected

# **ItemsList Component Code**

Within the **src/components** directory, create a sub-directory called **items**. Within this folder add a new file called **ItemsList.component.vue**<sup>5</sup>

Your directory structure will now look like this:



Within the ItemsList.component.vue file, paste the following code:

<sup>&</sup>lt;sup>5</sup>We are following a file naming convention where higher level components' names are pascal-case and follow this format [Component-Name].component.vue (Reference: Naming Conventions section at the end of this book)

A few things to notice here. First, we specify the **lang** attribute on the **script**> element with the value **ts** so we can use **TypeScript**. We define a property called **items** using Vue's **defineProps** <sup>6</sup>. When you using **script** setup> this is how you create properties for your component. If you prefer using **defineComponent** instead of **script** setup> then this does not apply.

Note that **items** is just using the type **any**<sup>7</sup> for now (later we'll replace **any** with an interface we'll create).

For our html template, we added a <h3> element with hard-coded text just saying "Items:". Then a 
 with a v-for binding that will render all our items within elements.

# App.vue

Open the existing **App.vue** file. Replace the existing code with this:

Within **<script>** the section, import a reference to the **ItemsListComponent**:

<sup>&</sup>lt;sup>6</sup>Vue's script setup and defineProps https://vuejs.org/api/sfc-script-setup.html#defineprops-defineemits

<sup>&</sup>lt;sup>7</sup>With 'any', TypeScript does not enforce type-checking on a property or variable. However, this is considered a bad practice as we lose the main benefit of TypeScript. There might be exceptions to this rule when using older 3rd party packages/libraries/plugins that do not offer type definitions. However, even in those cases it would be strongly recommended to provide interfaces and types so that you can still avoid using 'any'.

```
// file: src/App.vue

<script setup lang="ts">
    // import a reference to our ItemsList component
    import ItemsListComponent from './components/items/ItemsList.component.vue'
```

For now, also mock some data for our list of items that we will feed to our **ItemsListComponent**. For this we instantiate a local const called **items** and initialize it with some hard-coded data<sup>8</sup>. Let;s just add it after the import statement:

```
// file: src/App.vue
<script setup lang="ts">
 // import a reference to our ItemsList component
 import ItemsListComponent from './components/items/ItemsList.component.vue'
 // mock some data:
 const items: any[] = [{ // explicetely using any[] as we'll replace this with an i}
nterface in the next chapters
    id: 1,
   name: 'Item 1'
 }, {
   id: 2,
   name: 'Item 2'
 }, {
   id: 3,
   name: 'Item 3'
 }]
</script>
```

Finally, we add an **<ItemsListComponent>** element within the **<template>** markup. Insert it within the **<div class="home">** element. Add an attribute called **items** to our **<ItemsList-Component>**. This is how we pass properties to from parent to child components in Vue<sup>9</sup>. The **items** data is fed into the component **items** property this way. The complete code within the **App.vue** file should now look like this:

<sup>&</sup>lt;sup>8</sup>Note: using hard-coded data is a bad practice and here we are only doing it to first illustrate how things flow, and later in the next chapters will remove in favor of best practices and patterns (see Chapter 5)

<sup>9</sup>https://vue.dev/docs#template-syntax-attributes-and-props

```
// file: src/App.vue
<script lang="ts">
 // import a reference to our ItemsList component
  import ItemsListComponent from './components/items/ItemsList.component.vue'
 // mock some data:
  const items: any[] = [{
    id: 1,
   name: 'Item 1'
  }, {
   id: 2,
   name: 'Item 2'
  }, {
   id: 3,
   name: 'Item 3'
 }]
</script>
<template>
  <div class="home">
    <ItemsListComponent :items="items"/>
  </div>
</template>
```

Save the file. The web browser will refresh and display our preliminary items list being rendered more or less like this:



Note that when you pass properties by reference to other variables or properties you using the coon prefix like in :items="items". If instead you are passing a raw value like an hard-coded string, you would omit the colon. I.e. name="John"

# **Chapter 2 Recap**

#### What We Learned

- How to create a basic component that displays a list of items
- How to consume that component from another component/view

#### **Observations**

- The **items** property within the **ItemsList.component.vue** is declared as an array of type **any**
- The **App.vue** view contains hard-coded data (items) which is also declared as an array of **any**
- This means we are not leveraging strong-type checking at development time using TypeScript interfaces/models/types

Based on these observations, there are a few improvements that we will make in the next chapters:

# **Improvements**

- Create a TypeScript interface called **ItemInterface** for enforcing type checking at development time for our **items** data
- Update our code so it uses the new ItemInterface interface

# **Chapter 3 - Data Model Interfaces**

In this chapter, we will delve into the power of **TypeScript** by leveraging its strong-type checking capabilities through the use of interfaces. One of the main challenges with pure JavaScript is its loosely typed nature, which can lead to unexpected behavior and bugs at run-time. This is due to the lack of checks on the type or properties of values or objects being passed around in the code. TypeScript solves this problem by providing developers with the ability to enforce strict type checking at development time through the use of interfaces, types, classes, and more.

By incorporating TypeScript into our project, we'll be able to catch potential issues and bugs before they reach the production environment, saving us time and resources in debugging and fixing. Moreover, strong-typing also improves the readability and maintainability of our code, making it easier for developers to understand the purpose and usage of values and objects in the codebase. In this chapter, we'll explore how to use interfaces and types to implement strong-typing in our project, and how it can help us ensure the reliability and quality of our code.

# **Models Directory**

To lay the foundation for building large-scale applications, we will start by creating a new sub-directory under **src** called **models**. The organization of files and directories plays a critical role in the success of large-scale code bases. As such, it's essential to establish a consistent naming **convention** and directory structure from the outset. This will help ensure that the code remains organized, easy to understand, and maintainable as the application grows and the number of source files and directories increases.

You and your team are free to determine the standards that work best for you, but it's crucial to establish a set of conventions and stick to them. This will save you a significant amount of time and effort in the long run and prevent confusion and headaches as the application grows and evolves.

# Interface ItemInterface

To create the interface for our items, we will create a new directory called **src/models/items** and add a TypeScript file named **Item.interface.ts**.

It's worth noting that there are different naming conventions for TypeScript interfaces, with some preferring to use a suffix like **Interface**, while others use a prefix like **I**. In this book, we will follow the suffix convention, using **Item.interface.ts** as the file name. However, you are free to choose your preferred naming convention or align with your organization's coding standards.

It's important to keep each interface in its own file, as this makes it easier to maintain and manage. For more information on naming conventions, please refer to the Naming Conventions section at the end of this book.

Your directory structure should now look similar to this:



Let's write an interface that represents one item that will be rendered in our **Item** component. Our interface will have three properties:

- id: this is a unique number for each item in the list
- name: is a string containing the name of the item
- selected: is a boolean value that shows if the user has selected the item

The code for your interface should look like this:

```
// file: src/models/items/Item.interface.ts

export interface ItemInterface {
  id: number
  name: string
  selected: boolean
}
```

NOTE: In this case our ItemInterface only holds fields, but no methods. You can think of this more like the type struct in language like C or C#. Unfortunately TypeScript does not have an explicit struct type<sup>10</sup> and their guidance is to use interfaces for this.

Finally, add a main index.ts barrel file at the root of src/models with this code:

```
// file: src/models/index.ts
export * from './items'
```

NOTE: barrel indexes files are not required, but make it a lot easier to import references in other code feils without having to specify the full path to the referenced file.

For now, that is all we need. Since this will only represent a piece of data, we do not need to implement a class.

# **ItemsList Component**

Now that we have our interface, we can finally leverage TypeScript type checking ability by changing our items property on the items component from any[] to ItemInterface[]. First, import a reference for ItemInterface and modify our items property declaration from type any[] to type ItemInterface[]:

 $<sup>^{10}</sup>$ There have been suggestions presented, but I do not think they will ever add a struct type. See the TypeScript team answers here: https://github.com/microsoft/TypeScript/issues/22101

```
// file: src/components/items/ItemsList.component.vue

<script setup lang="ts">
     // import a reference to our ItemInterace
    import type { ItemInterface } from '../../models/items/Item.interface'
     // expose a property called items with a default value of a blank array
    defineProps<{ items: ItemInterface[] }>() // here replace any[] with ItemInterace[]
</script>
...
```

The complete update code should look like this:

```
// file: src/components/items/ItemsList.component.vue
<script setup lang="ts">
 // import a reference to our ItemInterace
 import type { ItemInterface } from '../../models/items/Item.interface'
 // expose a property called items with a default value of a blank array
 defineProps < { items: ItemInterface[] }>()
</script>
<template>
  <div>
   <h3>Items:</h3>
   <u1>
      v-for="(item, index) in items"
        :key="item.id">
       {{item.name}}
      </div>
</template>
```

Make sure the terminal does not display any error, and that the web browser refreshed and no error are displayed in the browser console.

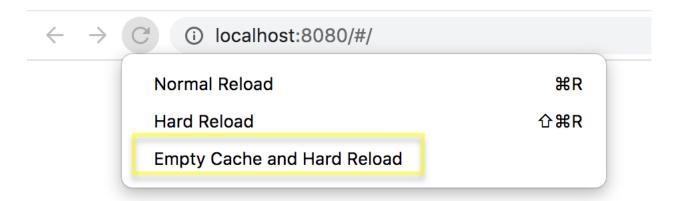
# App.vue

We should also update the **App.vue** code so it uses the **ItemInterface** interface for the locally private property also called **items**.

Please note, that as soon as you change the items property from any[] to ItemInterface[] it will complain that each item does not correctly implement the interface. This is because we did not initially include the selected property required by the interface. This is one of the powerful things of using TypeScript correctly. It will help catch errors like this at development time rather than run time, increase the code quality and make it less prone to bugs. So make sure each item has now also a selected field with a default of false.

```
// file: src/App.vue
<script setup lang="ts">
 // import a reference to our ItemInterface
 import type { ItemInterface } from './models/items/Item.interface'
 // import a reference to our ItemsList component
 import ItemsListComponent from './components/items/ItemsList.component.vue'
 // mock some data:
 const items: ItemInterface[] = [{ // here change any[] to ItemInterface[]
   name: 'Item 1',
   selected: false // add selected: false to each item
 }, {
    id: 2,
   name: 'Item 2',
   selected: false // add selected: false to each item
 }, {
   id: 3,
   name: 'Item 3',
   selected: false // add selected: false to each item
 }]
</script>
```

Again, make sure the terminal does not display any errors, and that the web browser refreshed and no error are displayed in the browser console. As you make changes is also a good idea occasionally to do an **Empty Cache and Hard Reload** by right clicking on the Chrome refresh icon and selecting the last option:



# **Chapter 3 Recap**

#### What We Learned

- It's important to follow files and directories naming convention and structure convention
- How to leverage **TypeScript** interfaces and avoid using **any** so that strong-type checking is enforced at development time and avoiding potential runtime errors or hidden bugs

#### **Observations**

- The **App.vue** contains a local variable that holds hard-coded mocked data that enabled us to prototype our component quickly
- **ItemsList.component.vue** just displays the list of items, but the user has still no ability to click on them to change their **selected** property

Based on these observations, there are a few improvements that we will make into the next chapter:

# **Improvements**

• Update our component so that when a user clicks on an item displayed on the page, the item selected property will toggle from false to true (and vice versa)

# **Chapter 4 - Adding Events To the Items Component**

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# **ItemsList Component**

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# **Chapter 4 Recap**

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#### What We Learned

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## **Observations**

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## **Improvements**

# **Chapter 5 - Intro to Unit Testing While Refactoring a Bit**

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# **ItemComponent**

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#### ItemsList.component.vue updates

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# Add unit tests support to our project

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# **Dependencies**

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#### test-utils code

# Configuration

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#### package.json

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# **ItemComponent Unit Tests**

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# Item.rendering.test.ts

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#### Item.behavior.test.ts

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# **ItemsList component updates**

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# **Additional Configuration**

#### vite.config.ts

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#### tsconfig.json updates

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# **Chapter 5 Recap**

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#### What We Learned

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## **Observations**

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#### **Improvements**

# **Chapter 6 - State Management**

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# **Store Architecture**

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#### **Items Store**

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#### **Items State interface**

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#### **Items Store instance**

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#### **Root Store**

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## Items.view.vue

# App.vue

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#### **Web Browser**

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# ItemsList.component.vue updates

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## **Web Browser**

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# **Loader Component**

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# **Chapter 6 Recap**

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#### What We Learned

### **Observations**

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### **Improvements**

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### **API Client Overview**

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### **Domains**

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### The Main ApiClient

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### **Items domain Api Client**

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### ItemsApiClientOptions.interface.ts

### ItemsApiClient.interface.ts

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### ItemsApiClient.model.ts

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### api-client/items/index.ts (barrel file)

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### api-client/index.ts (barrel file)

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### **Mock and Live Api Clients**

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### **Mock Api Client**

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#### Items domain mock API instance

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#### **Mock API instance**

### **Live Api Client**

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#### Items domain live API instance

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#### Live API instance

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### **Environment Variables**

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### **Api Client Provider**

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### **Store Instance updates**

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### **Alternatives**

### Alternative: using json-server

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### **Chapter 7 Recap**

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### What We Learned

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### **Observations**

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### **Improvements**

### **Chapter 8 - Enhance the Api Client**

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### **HttpClient Interfaces and Models**

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#### Constants.ts

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### HttpRequestParams.interface.ts

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### **UrlUtils.ts**

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### HttpClient.interface.ts

This content is not available in the sample book. The book can be purchased on Leanpub at http://leanpub.com/vue-vite-typescript.

### HttpClient.axios.ts

### HttpClient.fetch.ts

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### http-client/models/index.ts (barrel file)

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### http-client/index.ts (client factory)

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### **UrlUtils Unit Tests**

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### **HttpClient: Unit Tests**

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### **HttpClientAxios tests**

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### Testing a successful "get" response

### Testing an unsuccessful "get" response

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### Testing a successful "post" response

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### HttpClientFetch tests

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### Testing "get" responses

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### ItemsApiClientModel Update

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### **Chapter 8 Recap**

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### What We Learned

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### **Observations**

### **Improvements**

### **Chapter 9 - App Configuration**

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### vite-env.d.ts updates (or env.d.ts)

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### .env files updates

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### **Config Interface**

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### **Config files**

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### mock.json

### jsonserver.json

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### localapis.json

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### beta.json

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### production.json

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### tsconfig.json updates

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### **Config files map**

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### **Config provider**

### File utils.ts

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### File index.ts (config provider)

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### **Unit Tests**

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### Unit Tests against configsMap

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### **Unit Tests against Config instances by environment**

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### Tests config.mock.test.ts

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### **HttpClient code updates**

### file src/http-client/index.ts

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### **Api Client code updates**

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### file src/api-client/index.ts

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### file src/api-client/mock/items/index.ts

This content is not available in the sample book. The book can be purchased on Leanpub at http://leanpub.com/vue-vite-typescript.

### file src/api-client/live/items/index.ts

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### **Chapter 9 Recap**

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### What We Learned

### **Observations**

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### **Improvements**

# Chapter 10 - Localization and Internationalization - Language Localization

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### Plugins: i18next, vue-i18n

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### **Config updates**

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### ConfigInterface

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### file mock.json

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### **Translation JSON data**

### **API Client updates**

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### file LocalizationApiClient.interface.ts

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### file LocalizationApiClientOptions.interface.ts

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### file LocalizationApiClient.model.ts

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### file src/api-client/models/localization/index.ts

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### **Updates to ApiClient.interface.ts**

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### Updates to the main models barrel file (api-client/models/index.ts)

### **Updates to ApiClient instances**

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### localization mock instance (api-client/mock/localization/index.ts)

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### mock instance (api-client/mock/index.ts)

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### live instance (api-client/live/index.ts)

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### i18n initialization and useLocalization hook

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### file utils.ts

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### file i18n.init

### file useLocalization.ts

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### file src/localization/index.ts (barrel file)

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### **App.vue updates**

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### **Browser**

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### Test that our caching logic is working:

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### **Important**

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### **Chapter 10 Recap**

### What We Learned

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### **Observations**

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### **Improvements**

# Chapter 11 - Localization and Internationalization - Number and DateTime Formatters

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### **Directory localization/formatters**

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### File: useDateTimeFormatters.ts

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### File: useNumberFormatters.ts

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### File: index.ts

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### **Component DebugFormatters.component.vue**

### **Updates to App.vue**

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### **Chapter 11 Recap**

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### What We Learned

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### **Observations**

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### **Improvements**

### **Chapter 12 - Adding Tailwind CSS**

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### **Chapter 12 Recap**

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### What We Learned

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### **Observations**

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### **Improvements**

### **Chapter 13 - Intro to Primitives**

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### **Atomic Design and Similar Approaches**

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### **Conventions**

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### **General Strategies**

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### **Text Elements**

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### **Primitives View**

### **Chapter 13 Recap**

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### **Observations**

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### **Improvements**

### **Chapter 14 - More Primitives**

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### **Button Elements**

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### **Primitives View - update**

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### **Toggle/Checkbox Elements**

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### **Primitives View - one more update**

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### **Chapter 14 Recap**

### What We Learned

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### **Observations**

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### **Improvements**

### **Chapter 15 - A Primitive Modal**

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### Icon: EllconAlert

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### File ElModal.vue

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### File src/index.html

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### File useModalDialog.ts

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### **Updates to Primitives.view.vue**

### **Browser**

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### **Chapter 15 Recap**

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### What We Learned

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### **Observations**

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### **Improvements**

## Chapter 16 - Higher-level components

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### **Item Component - updates**

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### **ItemsList Component - updates**

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### **Summary**

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### **Chapter 16 Recap**

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### What We Learned

### **Observations**

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### **Improvements**

## **Chapter 17 - Creating a Component Library**

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### **Create my-component-library**

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### Remove obsolete files

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### Add main entry index.ts file

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### **Update vite.config.ts**

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### **Update package.json commands**

### **Create Counter.vue component**

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### Create SampleComp.vue component

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### Add components/index.ts barrel file

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### **Build our library**

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### **Consuming our library**

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### **Chapter 17 Recap**

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### What We Learned

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### **Observations**

### **Improvements**

## Chapter 18 - Creating a JavaScript library

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### **Create my-js-helpers**

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### Remove obsolete files

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### Add main entry index.ts file

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### **Update vite.config.ts**

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### **Update package.json commands**

### random-id

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#### random-id unit tests

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### **Build the library**

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### Consuming the my-js-helpers library

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### **Chapter 18 Recap**

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### What We Learned

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### **Observations**

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### **Improvements**

## Chapter 19 - Publish a library as a NPM package

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### Create an NPM user account

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### Create an Organization under your NPM profile

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### Update my-js-helpers package.json

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### **Publishing the library**

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### **Consuming your NPM package**

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### What We Learned

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### **Observations**

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### **Improvements**

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#### **File Names**

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#### Interface File Names

Naming Conventions 67

#### **Components File Names**

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### **Views/Pages File Names**

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#### **Unit Tests file names**

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### **Directory src**

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### **Directory tests/unit**

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