## **%** 1. Setting Up Development Environment

### Required Tools:

- Node.js (v18+)
- VS Code
- Vue.js Devtools (Chrome Extension)

### Recommended VS Code Extensions:

- Vue Official for Vue 3 [https://marketplace.visualstudio.com/items? itemName=Vue.volar]
- ESLint linting support
- Prettier code formatting

### Chrome Extension:

• Vue.js Devtools: Helps inspect Vue component structure, props, states, and events

# 2. Scaffolding Your First Vue.js Project with Vite

### Why Vite?

- Super fast development server
- Native ES Module support
- Designed for Vue 3 out of the box

### Create Project:

```
npm create vue@latest my-vue-app
cd my-vue-app
npm install
npm run dev
```

#### Folder Structure:

```
| ├── assets/  # Images, styles
| ├── components/  # Vue components
| ├── App.vue  # Main App component
| └── main.js  # App entry script
```

# **a** 3. Preparing Our Project for Work

Clean App.vue for fresh start:

```
<!-- src/App.vue -->
<script setup>
// Composition API script block
</script>

<template>

<h1>Welcome to Vue 3 with Vite</h1>
</template>

<style scoped>
</style>
```

# 4. Using Data in Vue 3 (Composition API)

### **Example: Display String**

### **Example: Display Single Object**

### **Example: Display List from Array**