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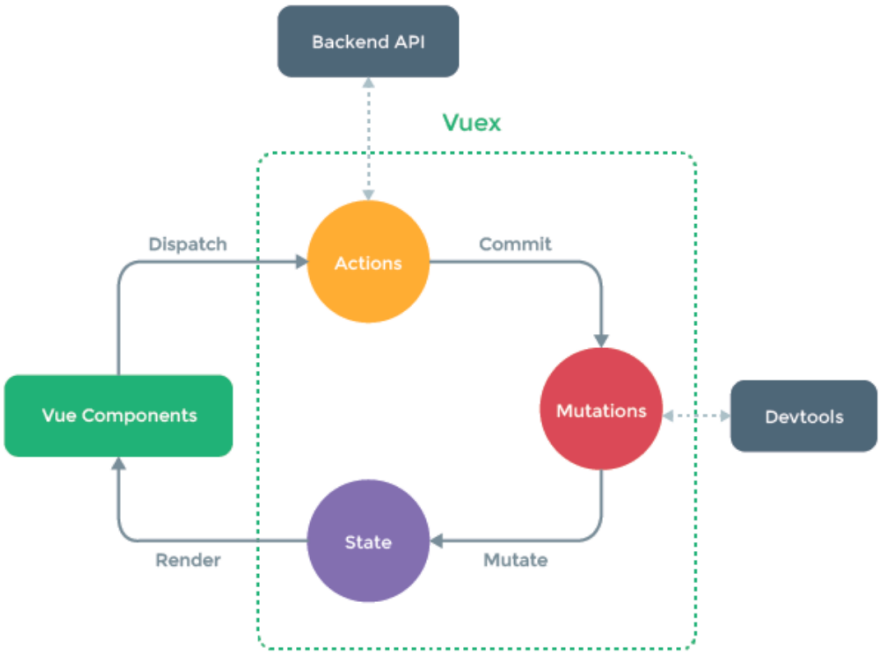

Figure 1: Vuex Overview

Vuex is a ***state management pattern + library*** for ==Vue.js applications==. It serves as a centralized store for all the components in an application, with rules ensuring that the state can only be mutated in a predictable fashion. It also integrates with Vue's official devtools extension to provide advanced features such as > zero-config time-travel debugging and

state snapshot export / import.

Introduction

Vuex is also a library implementation tailored specifically for Vue.js to take advantage of its ==granular reactivity system== for efficient updates.

==Vuex is different in that it knows it's in a Vue app and contains advanced debugging helpers such as mutation logs, snapshots, and history re-rolls / time travel==.

Common Problems

> Multiple views may depend on the same piece of state.
>
> Actions from different views may need to mutate the same piece of state.

For ==problem one==, passing props can be tedious for deeply nested components, and simply doesn't work for sibling components.

For ==problem two==, we often find ourselves resorting to solutions such as reaching for direct parent/child instance references or trying to mutate and synchronize multiple copies of the state via events. Both of these patterns are brittle and quickly lead to unmaintainable code.

It's important to note that you should ==never replace== the original state object in your actions - the components and the store need to share reference to the same object in order for mutations to be observed.

There are two things that make a Vuex store different from a plain global object:

- Vuex stores are ==reactive==. When Vue components retrieve state from it, they will reactively and efficiently update if the store's state changes.
- You ==cannot directly mutate the store's state==. The only way to change a store's state is by explicitly ==committing mutations==. This ensures every state change leaves a track-able record, and enables tooling that helps us better understand our applications.

Installation

```
npm install vuex --save
```

```
import Vue from 'vue'
import Vuex from 'vuex'

Vue.use(Vuex)
```

Using Dev Build

```
git clone https://github.com/vuejs/vuex.git node_modules/vuex
cd node_modules/vuex
npm install
npm run build
```