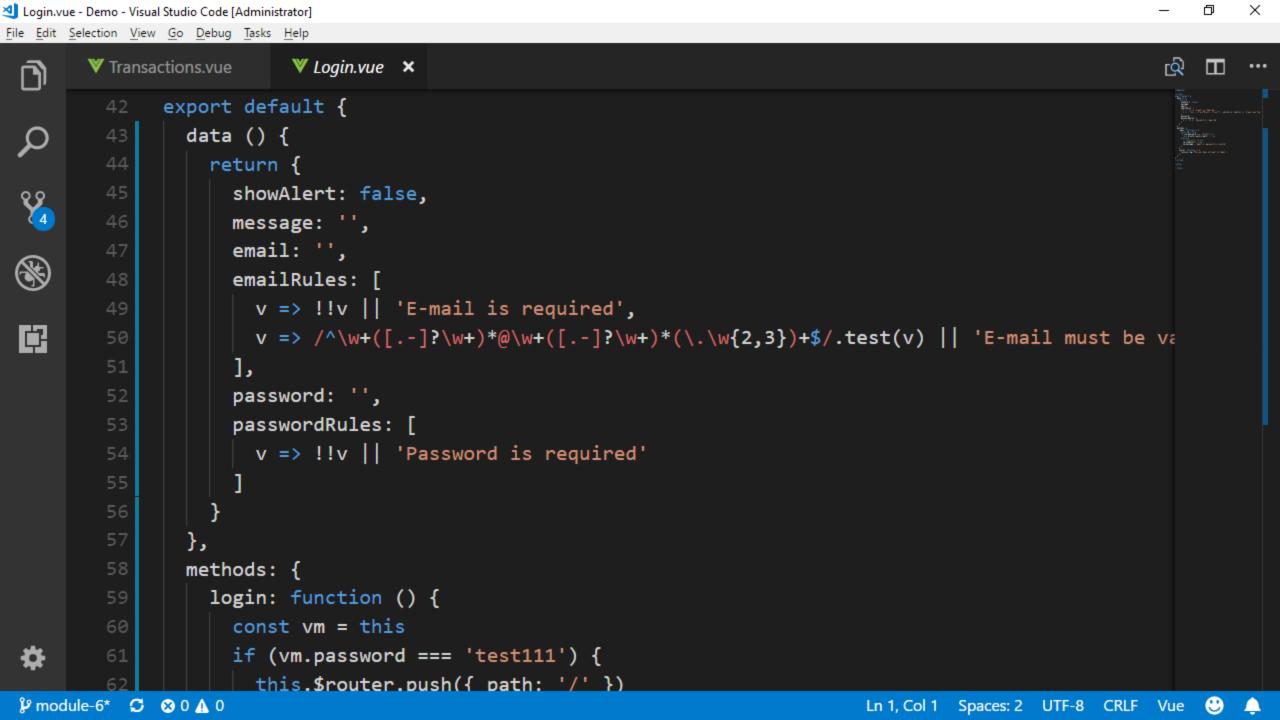
Manage Application State with Vuex

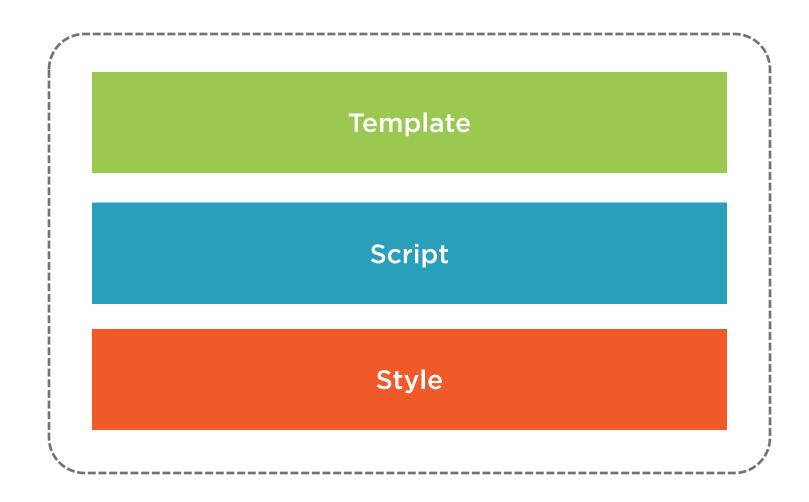


Mark Scott
PLURALSIGHT AUTHOR
@tripletdad99





Anatomy of a Single File Component





Script Block

Data

Props / PropsData

Computed

Methods

Lifecycle Hooks

Watch



Example Data Function

```
<script>
export default {
  data () {
    return {
      user: { first: 'Some', last: Body' },
      isActive: true
</script>
```



Example Data Function

```
<script>
export default {
  data () => ({
    user: { first: Some', last: 'Body' },
    isActive: true
  }
}
</script>
```



Local State Management

Template Script Style



What is Vuex?



"Vuex is a state management pattern & library for Vue.js applications. It serves as a centralized store for all the components in an application..."

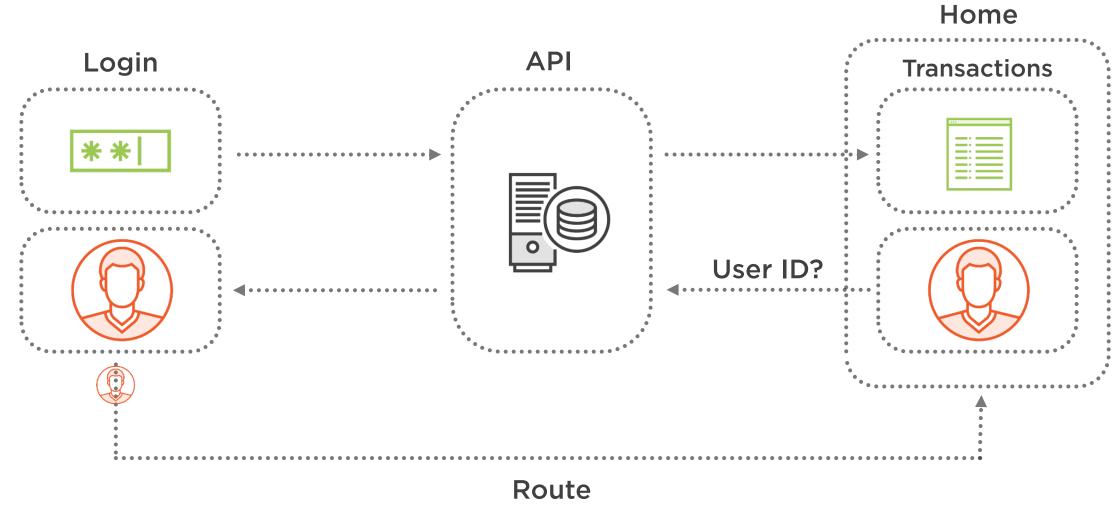
vuex.vuejs.org/en/intro.html



Do we really need a centralized store?

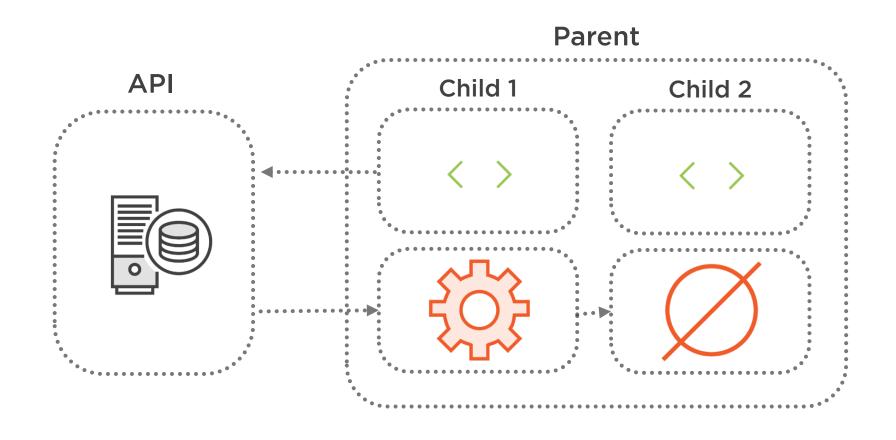


Without a Central Store





Child Components & Parameters





Do we really need want a centralized store?

YES



Vuex Store Objects

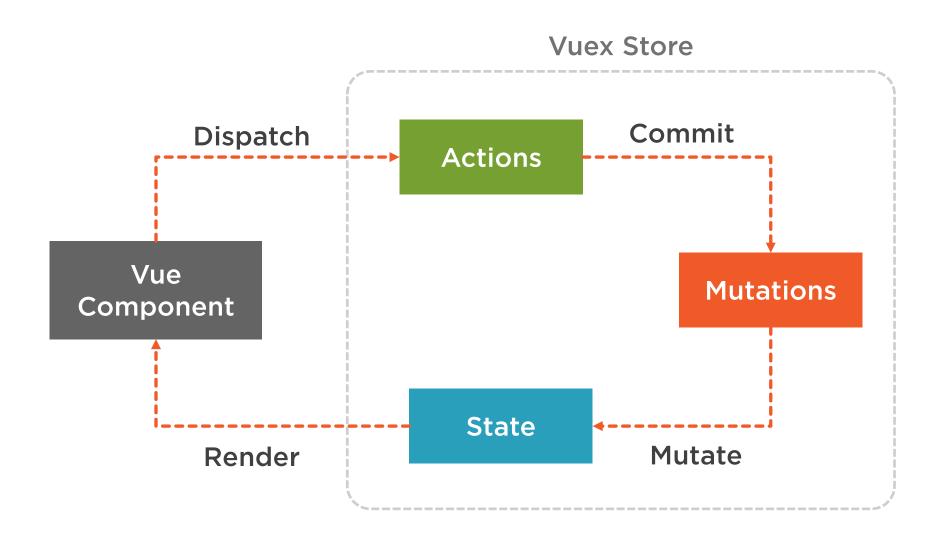


Vuex Store Objects

State Actions **Mutations** Getters Modules



Vuex Workflow





State



Vuex Store: state

State Actions Mutations Getters Modules



Vuex Store: state example

```
const store = new Vuex.Store({
   state: {
      user: null,
      isAuthorized: false,
      roles: []
```



```
function initialState (){
    return {
      user: null,
      isAuthorized: false,
      roles: []
const state = initialState()
export default {
   state,
```

Actions

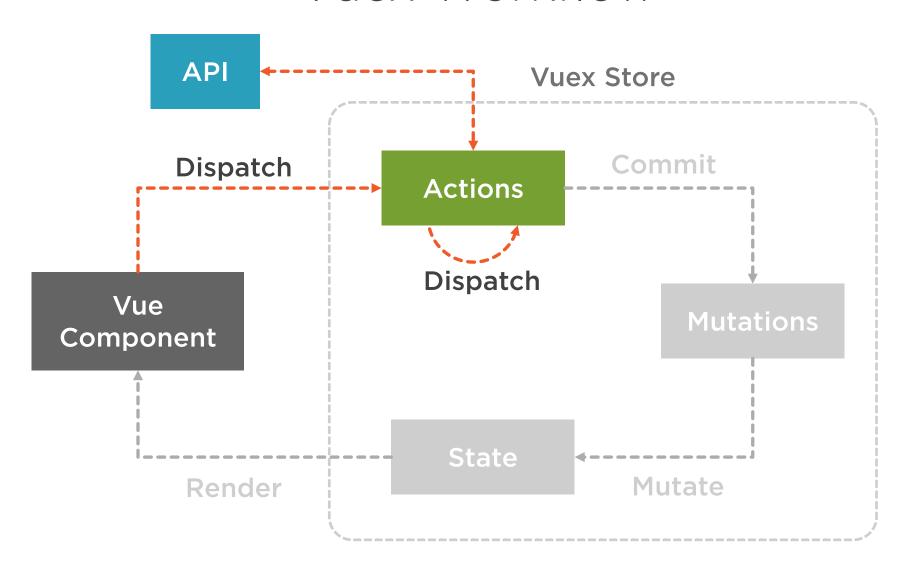


Vuex Store: actions

State Actions Mutations Getters Modules



Vuex Workflow





Vuex Store: action example

```
const store = new Vuex.Store({
   state: { ... },
   actions: {
      loginUser (context, user) {
         // Login Code Goes Here...
         let isAuthorized = true
         context.commit('loginUser', isAuthorized )
```

Vuex Store: action example

```
const store = new Vuex.Store({
   state: { ... },
   actions: {
      loginUser ({ commit }, user) {
         // Login Code Goes Here...
         let isAuthorized = true
         commit('loginUser', isAuthorized )
```

Mutations



Vuex Store: mutations

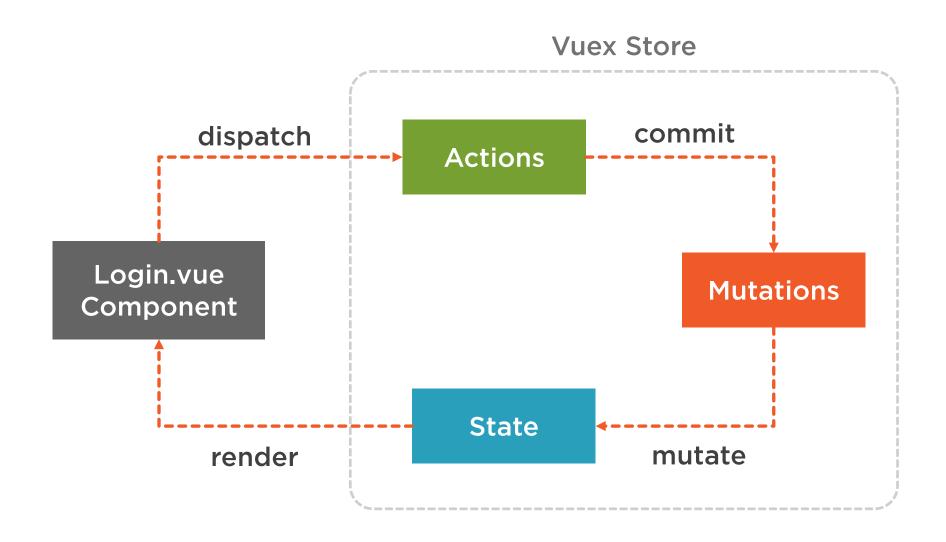
State Actions **Mutations** Getters Modules



Vuex Store: mutation example

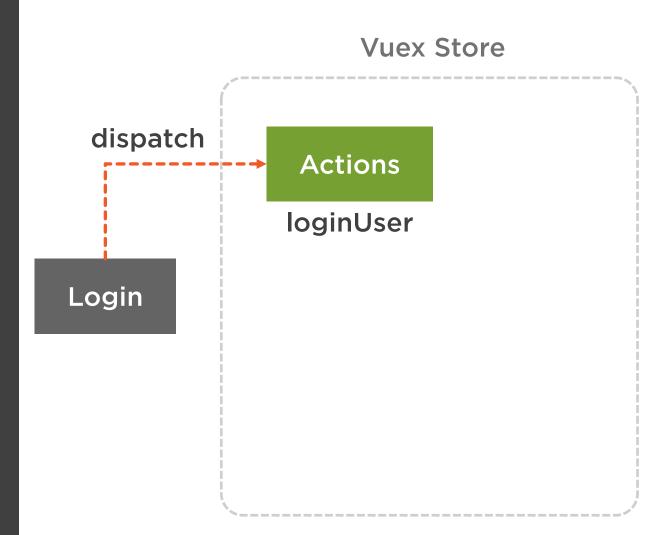
```
const store = new Vuex.Store({
   state: { ... },
   actions: { loginUser (context, user) { ... } },
   mutations: {
      loginUser (state, isAuthorized) {
         state.isAuthorized = isAuthorized
```

Login Example



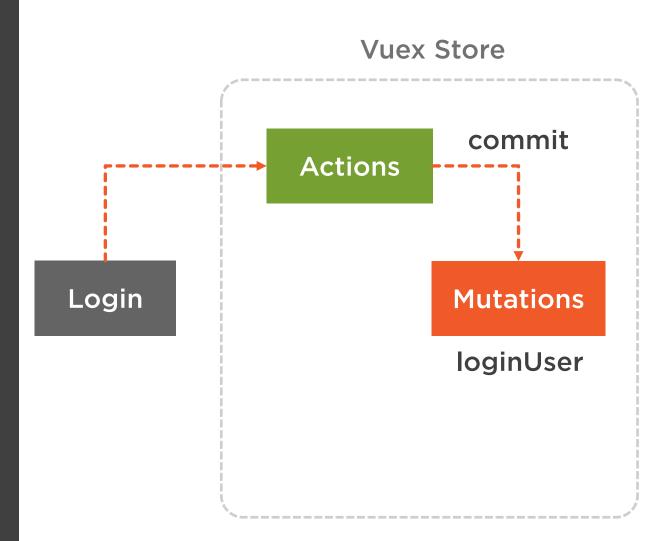


```
<script>
export default {
  data: () => ({
    user: { ... }
  }),
 methods: {
    login: function () {
      this.$store
        .dispatch('loginUser')
    },
</script>
```



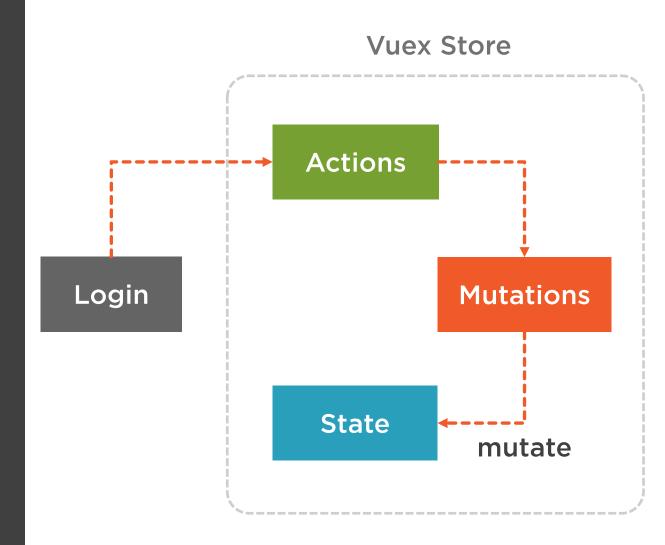


```
actions: {
  loginUser (context) {
    // Login logic here ...
    context.commit('loginUser')
  }
}
```



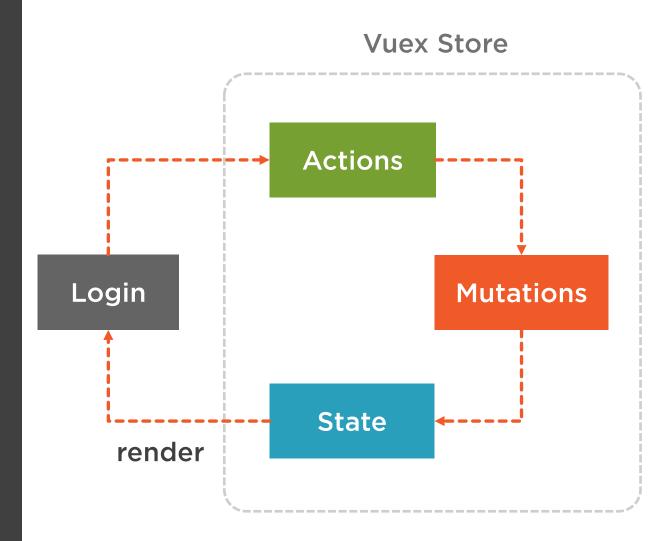


```
mutations: {
  loginUser (state) {
    state.isLoggedIn = true
  }
}
```





```
// Vuex Store
state: {
 isLoggedIn: true
// Login.vue Component Reacts
<template>
  <div v-if="isLoggedIn">
    // Template markup here...
  </div>
</template>
```





Getters



Vuex Store: getters

State Actions Mutations Getters Modules



Vuex Store: getters example

```
const store = new Vuex.Store({
   state: {
      firstName: 'Test',
      lastName: 'User'
   getters: { ... },
   actions: { ... },
   mutations: { ... } }
```

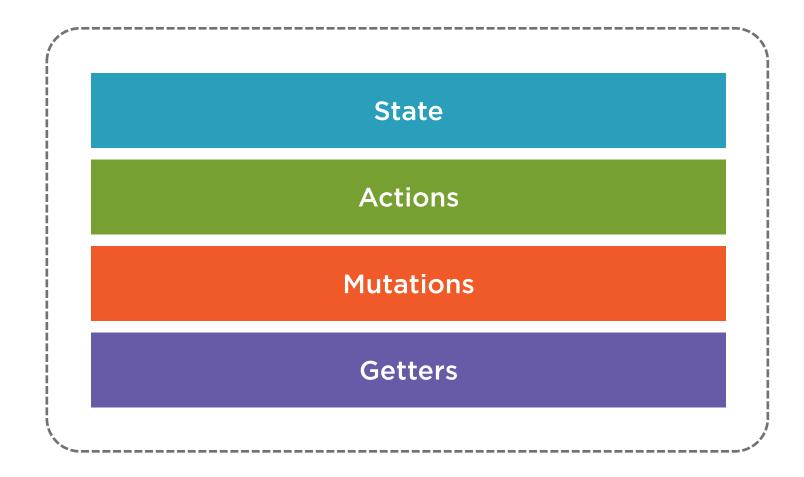
Vuex Store: getters example

```
const store = new Vuex.Store({
   state: { .... },
   getters: {
      fullName: state => {
          return state.firstName + ' ' + state.lastName
   actions: { ... },
   mutations: { ... } }
```

Modules

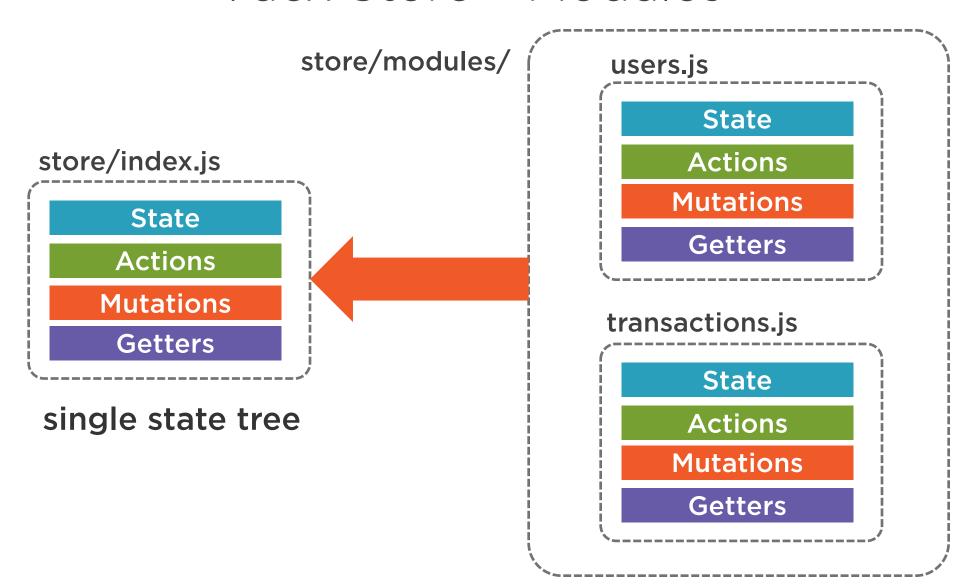


Vuex Store - One Big Object





Vuex Store - Modules



vuex.vuejs.org



Define Our Store



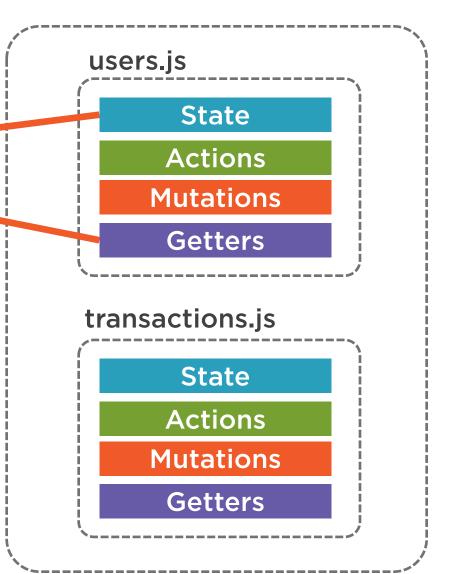
Does everything have to go into the Vuex state store?



Vue Components

Login.vue data () computed methods Transactions.vue data () computed methods

Vuex Store



Demo



Modules

- User
- Transactions

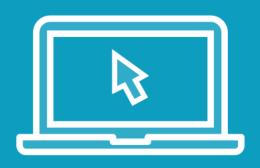
Review code

- State
- Actions
- Mutations

Modify Login.vue



Demo



Modify Login.vue

- Use Vuex store vs. local data
- Access logged in user globally



Next Steps



Do you have the Vue dev tools installed?

Getting data from the API

- Introduce Axios
- Call into the API from our Vuex store

