## **Vuex install:**

npm install --save vuex@next

Then from main.js code structure,

```
import { createApp } from 'vue';
import { createStore } from 'vuex';
import App from './App.vue';

const app = createApp(App);

const store = createStore({
    state() {
        return {
            counter: 1,
            };
        },
    });

app.use(store);

app.mount('#app');
```

ekhn from .vue file e jevabe fetch korte hobe,

```
<h3>{{ $store.state.counter }}</h3>
```

State er file ke computed er maddhome jevabe fetch kore,

```
computed: {
  counter() {
    return this.$store.state.counter;
  },
},
```

Ekhn ekta method kore just counter er value barano holo,

```
methods: {
   addOne() {
    this.$store.state.counter++;
   },
},
```

.vue file theke jevabe method ke execute korte hobe,

```
<button @click="addOne">Add 1</putton>
```

------ Mutations ------

Code structure from store variable, from main.js,

```
const store = createStore({
    state() {
        return {
            counter: 1,
        };
    },

mutations: {
        increament(state) {
            state.counter = state.counter + 1;
        },
    },
});
```

Now from the .vue file,

```
methods: {
    addOne() {
      this.$store.commit('increament');
    },
    },
```

----- getters with mapGetters and getters -----

From main.js,

```
getters: {
   getCounter(state) {
    return state.counter;
   },
},
```

From .vue file with both examples,

```
<template>
   <h1>{{ getData }}</h1>
    <button @click="addOne">Add 1</putton>
</template>
<script>
import { mapGetters } from 'vuex';
export default {
 methods: {
    addOne() {
      this.$store.commit('increament');
   },
 computed: {
   ...mapGetters(['getCounter']),
   getData() {
      return this.$store.getters.getCounter;
 },
</script>
```

------ Actions with mutation and dispatch ------

From main.js,

```
const store = createStore({
  state() {
   return {
      counter: 1,
      test: 0,
   };
 },
 mutations: {
    increament(state) {
      state.counter = state.counter + 1;
    },
   testMutation(state, payload) {
      state.counter = state.counter + payload;
    },
 },
 actions: {
    async testAction({ commit }, payload) {
      commit('testMutation', payload);
 },
});
```

Now using it from .vue file,

```
methods: {
  addOne() {
    // this.$store.commit('increament');

    this.$store.dispatch('testAction', 1);
  },
},
```

Firstly just alada ekta const variable create korte hobe jekhane state, getters, mutations egular shob part gulo thakbe,

```
const counterModule = {
  state() {
   return {
      counter: 1,
    };
  },
 mutations: {
   increament(state) {
      state.counter = state.counter + 1;
   testMutation(state, payload) {
      state.counter = state.counter + payload;
    },
  },
 getters: {
   getCounter(state) {
     return state.counter;
   },
 actions: {
    async testAction({ commit }, payload) {
      commit('testMutation', payload);
    },
  },
```

Then erpor just main state er moddhe module kore add kore dite hobe,

```
const store = createStore({
  modules: {
    counterModule,
    },
});
```

	Accessing data from	different states	
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Onno ekta state ke jokhon module wise niye asha hoy tokhon oi module er data ke onno state er moddhe access korar jonno actions er help nite hoy.

Ekhane **rootState.counterModule.counter** er data ashse onno ekta state theke jeta ekhane module wise added ase.

```
actions: {
  login({ commit, rootState }) {
    commit('setAuth', { isAuth: true });
    console.log(rootState.counterModule.counter);
  },
},
modules: {
  counterModule,
},
```

## ------ Namespacing modules ------

Firstly jei module ta ke use korte hobe shetay namespace add korte hobe,

```
const counterModule = {
  namespaced: true,
};
```

Then eta ke main store er moddhe execute korte hobe,

```
const store = createStore({
  modules: {
    numbers: counterModule,
    },
});
```

Ekhon er baki function gula ke .vue file theke access korte hobe tar example gula dewa holo.

Example 1:

```
methods: {
   addOne() {
      // this.$store.commit('increament');

   this.$store.dispatch('numbers/testAction', 1);
   },
},
```

## Example 2:

```
computed: {
  counter() {
    return this.$store.getters['numbers/getCounter'];
  },
},
```