**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</button>

---------------------------------------------- **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>

  <div>

    <h1>{{ getData }}</h1>

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

  </div>

</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);

    },

  },

**-------------------------------------------** **Multiple modules (Breaking states) ------------------------------------------**

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** **------------------------------------------**

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'];

    },

  },