Vue.Js Setup :









**++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++**

**Start Project Setup & All code in Vue.js >>>**

**# Prerequisites:**

Node.js installed

Vue CLI installed (npm install -g @vue/cli)

**1. Create a Vue.js Project:**

**First, create a new Vue.js project using the Vue CLI:**

# vue create dummy-api-vue

**after create project in Vue then please go to dir and run server >>>**

# cd dummy-api-vue

**for api call package in Vue.js >>>**

# npm install axios

after update code >>

**HelloWorld.vue >>>>>>>>>>>>>>>>>>**

<template>

<div class="hello">

<h1>{{ msg }}</h1>

<button @click="fetchData">Fetch Data</button>

<div v-if="loading">Loading...</div>

<div v-else-if="error">{{ error }}</div>

<div v-else-if="data">

<h2>Data from API:</h2>

<pre>{{ data }}</pre>

</div>

</div>

</template>

<script>

import axios from 'axios';

export default {

name: 'HelloWorld',

props: {

msg: String

},

data() {

return {

data: null,

loading: false,

error: null

};

},

methods: {

async fetchData() {

this.loading = true;

this.error = null;

try {

const response = await axios.get('https://jsonplaceholder.typicode.com/posts/1');

this.data = response.data;

} catch (err) {

this.error = 'Error fetching data';

} finally {

this.loading = false;

}

}

}

};

</script>

<style scoped>

h1 {

font-family: Avenir, Helvetica, Arial, sans-serif;

font-weight: normal;

margin: 0;

padding: 20px;

}

button {

margin: 10px 0;

}

</style>

**+++++++++++++++++++++++++++++++++++++++++++++++++++++++++**

**run server application >>>**

# npm run serve

**when i need to route for another components then install >>>>**

**Install Vue Router:**

# npm install vue-router

**Set Up Vue Router:**

**# Let’s define two pages: one for the list of items (ItemList.vue) and another for viewing the details of a specific item (ItemDetail.vue).**

**router/index.js:**

**Create a Vue Router setup to handle navigation.**

**index.js file >>>> for up to Vue version 3**

import { createRouter, createWebHistory } from 'vue-router'; // Vue 3 Router imports

import ItemList from '../components/ItemList.vue';

import ItemDetail from '../components/ItemDetail.vue';

const routes = [

{ path: '/', name: 'ItemList', component: ItemList },

{ path: '/item/:id', name: 'ItemDetail', component: ItemDetail },

];

// Use createRouter and createWebHistory (for history mode)

const router = createRouter({

history: createWebHistory(),

routes,

});

export default router;

+++++++++++++++++++++++++++++++++++++++++++++++++++++++

**update code in main.js file >>>>>**

import { createApp } from 'vue'; // Vue 3 uses createApp

import App from './App.vue';

import router from './router'; // Make sure router is properly set up

// Create and mount the app instance

const app = createApp(App);

// Use the router

app.use(router);

// Mount the app

app.mount('#app');

+++++++++++++++++++++++++++++++++++++++++++++++++++++++

**App.Vue file update >>>>>**

<template>

<div id="app">

<router-view></router-view> <!-- This renders the current route's component -->

</div>

</template>

<script>

export default {

name: 'App'

};

</script>

++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++

Add File code >>>

**ItemDetails.Vue**

<template>

<div class="item-detail">

<h1>Item Details</h1>

<div v-if="loading">Loading...</div>

<div v-if="error">{{ error }}</div>

<div v-if="item">

<p><strong>ID:</strong> {{ item.id }}</p>

<p><strong>Title:</strong> {{ item.title }}</p>

<p><strong>Body:</strong> {{ item.body }}</p>

<button @click="goBack">Go Back</button>

</div>

</div>

</template>

<script>

import axios from 'axios';

export default {

data() {

return {

item: null,

loading: false,

error: null

};

},

mounted() {

this.fetchItemDetails();

},

methods: {

async fetchItemDetails() {

const id = this.$route.params.id;

this.loading = true;

this.error = null;

try {

const response = await axios.get(`https://jsonplaceholder.typicode.com/posts/${id}`);

this.item = response.data;

} catch (err) {

this.error = 'Error fetching item details';

} finally {

this.loading = false;

}

},

goBack() {

this.$router.push({ name: 'ItemList' });

}

}

};

</script>

<style scoped>

button {

padding: 5px 10px;

cursor: pointer;

margin-top: 20px;

}

</style>

++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++

**ItemList.Vue**

<template>

<div class="api-list">

<h1>Item List</h1>

<table border="1">

<thead>

<tr>

<th>ID</th>

<th>Title</th>

<th>Action</th>

</tr>

</thead>

<tbody>

<tr v-for="item in items" :key="item.id">

<td>{{ item.id }}</td>

<td>{{ item.title }}</td>

<td>

<button @click="viewDetails(item.id)">View Details</button>

</td>

</tr>

</tbody>

</table>

<div v-if="loading">Loading...</div>

<div v-if="error">{{ error }}</div>

</div>

</template>

<script>

import axios from 'axios';

export default {

data() {

return {

items: [],

loading: false,

error: null

};

},

mounted() {

this.fetchItems();

},

methods: {

async fetchItems() {

this.loading = true;

this.error = null;

try {

const response = await axios.get('https://jsonplaceholder.typicode.com/posts');

this.items = response.data;

} catch (err) {

this.error = 'Error fetching items';

} finally {

this.loading = false;

}

},

// Navigate to the ItemDetail page with the item ID

viewDetails(id) {

this.$router.push({ name: 'ItemDetail', params: { id } });

}

}

};

</script>

<style scoped>

table {

width: 100%;

margin: 20px 0;

border-collapse: collapse;

}

th, td {

padding: 10px;

text-align: left;

}

button {

padding: 5px 10px;

cursor: pointer;

}

</style>

++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++

Completed Assignment file >>>>>