Step 1: Install Laravel and Vite

=> composer create-project --prefer-dist laravel/laravel my-project "10.\*"

=> cd my-project

=>npm install --save-dev laravel-vite-plugin

=>npm install

=>npm install vue@3

=>npm install vite@^5.0.0 @vitejs/plugin-vue@^5.0.0

Step 2: Configure Vite for Vue

=>Create or edit the vite.config.js file in the root directory:

=>**vite.config.js**

import { defineConfig } from 'vite';

import laravel from 'laravel-vite-plugin';

import vue from '@vitejs/plugin-vue';

export default defineConfig({

    plugins: [

        vue(),

        laravel({

            input: ['resources/css/app.css', 'resources/js/app.js'],

            refresh: true,

        }),

    ],

});

Step 3: Set Up Vue in Laravel:

=>Create a main Vue file resources/js/app.js:

=>**resources/js/app.js**

import { createApp } from 'vue';

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

import router from './router';

createApp(App).use(router).mount('#app');

Step 4: Create Vue Components:

=>Create a sample Vue component resources/js/components/App.vue:

=>**resources/js/components/App.vue**

<template>

<div id="app">

<router-view></router-view>

</div>

</template>

<script>

export default {

name: 'App',

};

</script>

=>Create another sample component resources/js/components/ExampleComponent.vue:

=>**resources/js/components/ExampleComponent.vue**

<template>

<div>

<h1>Example Component</h1>

<p>This is an example component.</p>

</div>

</template>

<script>

export default {

name: 'ExampleComponent',

};

</script>

Step 5: Set Up Vue Router:

=>Create a router configuration file resources/js/router/index.js:

=>install route : npm install vue-router@next

=>**resources/js/router/index.js:**

import { createRouter, createWebHistory } from 'vue-router';

import ExampleComponent from '@/components/ExampleComponent.vue';

const routes = [

{

path: '/',

name: 'Example',

component: ExampleComponent,

},

];

const router = createRouter({

history: createWebHistory(),

routes,

});

export default router;

Step 6: Update Blade Template:

=>Update your resources/views/welcome.blade.php to include the Vue app:

=>**resources/views/welcome.blade.php:**

<!DOCTYPE html>

<html lang="{{ str\_replace('\_', '-', app()->getLocale()) }}">

<head>

<meta charset="utf-8">

<meta name="viewport" content="width=device-width, initial-scale=1">

<title>Laravel + Vue</title>

@vite('resources/js/app.js')

</head>

<body>

<div id="app"></div>

</body>

</html>

Step 7: Compile Assets:

=>npm run dev

Step 8: Create Laravel Route:

=>Ensure you have a route in routes/web.php that returns the Blade view:

=>**routes/web.php:**

use Illuminate\Support\Facades\Route;

Route::get('{any}', function () {

return view('welcome');

})->where('any', '.\*');

Step 9: Serve the Application:

=>php artisan serve