- a) Authentication using laravel breeze api and spatie for roles and permission.
- b) Create a crud operation using restful api.
- c) Create a contact us form and send email to admin with name, subject, phone number and message.
- d) List all the users with his status i.e. online or offline.
- e) Login with laravel Socialite.
- f) Write a logic to export database data to pdf, excel and csv file. Also write logic to import excel file to insert into database table.

1) Authentication using laravel breeze api and vuejs.

## Laravel Backend:

```
composer require laravel/breeze --dev
```

# php artisan breeze:install api

Inside .env

```
SANCTUM_STATEFUL_DOMAINS=localhost:3000
SESSION_DOMAIN=localhost
```

SESSION DRIVER=cookie

```
MAIL_MAILER=smtp

MAIL_HOST=smtp.gmail.com

MAIL_PORT=465

MAIL_USERNAME=yubrajkoirala7278@gmail.com

MAIL_PASSWORD=bzclhlgvxxxaepxv

MAIL_ENCRYPTION=tls

MAIL_FROM_ADDRESS="yubrajkoirala7278@gmail.com"

MAIL_FROM_NAME="${APP_NAME}"
```

Inside RedirectIfAuthenticated.php

```
foreach ($guards as $guard) {
    if (Auth::guard($guard)->check()) {
        return response()->noContent();
    }
}
```

## Vuejs Frontend:

a) Install necessary packages:

```
npm install
npm install vue-router@4
npm install pinia
npm install axios
```

Clear App. Vue and delete HelloWorld. vue and delete files inside assets.

Create src/router/index.js

b) Change vuejs port to 3000 from vite.config.js

```
// https://vite.dev/config/
export default defineConfig({
    plugins: [vue()],
    server: {
        port: 3000,
        },
});
```

c) Create src/axios.js

```
import axios from "axios";
// Base configuration
axios.defaults.baseURL = "http://localhost:8000";
axios.defaults.withCredentials = true;
// Interceptor to add CSRF token header
axios.interceptors.request.use(config => {
    const token = document.cookie.split('; ').find(row => row.startsWith('XSRF-TOKEN='));
    if (token) {
        config.headers['X-XSRF-TOKEN'] = decodeURIComponent(token.split('=')[1]);
    }
    return config;
});
export default axios;
```

d) Inside main.js

```
import { createApp } from 'vue'
import './style.css'
import App from './App.vue'
import './axios'
```

```
import { createPinia } from 'pinia'
import router from './router'

const pinia = createPinia();
const app=createApp(App);
app.use(pinia)
app.use(router)
app.mount('#app')
```

e) How to use bootstrap in vuejs

```
npm install bootstrap
```

Inside main.js

```
// import './style.css'
import 'bootstrap/dist/css/bootstrap.css'
import 'bootstrap/dist/js/bootstrap.bundle.js'
```

f) How to use bootstrap icon in vuejs

```
{\bf npm\ install\ bootstrap\text{-}icons}
```

Inside main.js

```
import 'bootstrap-icons/font/bootstrap-icons.css'
```

g) How to use sweetalert in vuejs

```
npm install sweetalert2
```

h) How to use toastify in vuejs

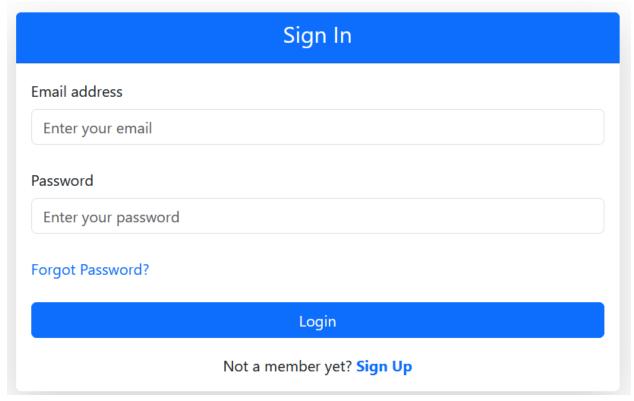
```
npm install toastify-js
```

Inside main.js

```
import "toastify-js/src/toastify.css";
```

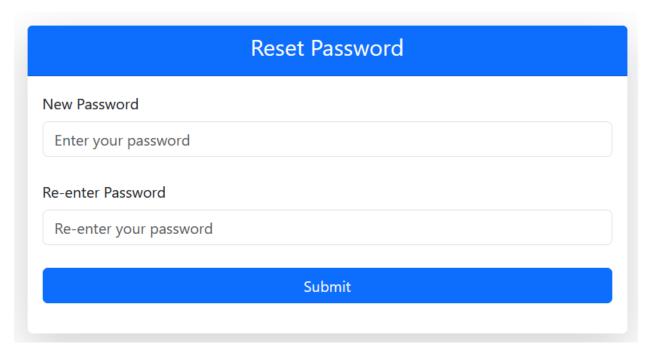
i) Inside App.vue

j) Create src/components/frontend/<u>Home.vue,Nav.vue</u>, | | src/components/auth Login.vue, <u>Register.vue,ForgetPassword.vue</u>,ResetPassword.vue and src/components/backend/Dashboard.vue and also src/components/layouts/AuthLayout.vue, src/components/layouts/FrontendLayout.vue and src/components/layouts/BackendLayout.vue



Register		
Name		
Enter your full name		
Email address		
Enter your email		
Password		
Enter your password		
Password Confirmation		
Re-enter your password		
Register		
Already have an account? Sign In		

	Forget Password	
Email address		
Enter your email		
	Submit	



#### k) Inside stores/auth.js

```
import { defineStore } from "pinia";
import { ref } from "vue";
import axios from "axios";
import router from "../router";
export const useAuthStore = defineStore("auth", () => {
  // ====== State ======
  const authUser = ref(null); // Holds the authenticated user data
  const authErrors = ref([]); // Holds validation or other errors
  const authStatus = ref(null);
  const loading = ref(false);
  // ======Fetch the CSRF token=======
  const getToken = async () => {
   try {
      await axios.get("/sanctum/csrf-cookie");
    } catch (error) {
      console.error("Error fetching CSRF token:", error);
  };
  const handleLogin = async (credentials) => {
      loading.value = true;
```

```
await getToken(); // Ensure CSRF token is set
    const response = await axios.post("/login", credentials);
    authUser.value = response.data.user;
    router.push("/admin/home");
  } catch (error) {
    if (error.response && error.response.status === 422) {
      authErrors.value = error.response.data.errors;
  } finally {
    loading.value = false;
};
// =======Handle user registration========
const handleRegister = async (userDetails) => {
 try {
    loading.value = true;
    await getToken(); // Ensure CSRF token is set
    const response = await axios.post("/register", userDetails);
    authUser.value = response.data.user;
    router.push("/admin/home");
  } catch (error) {
    if (error.response && error.response.status === 422) {
      authErrors.value = error.response.data.errors;
  } finally {
    loading.value = false;
};
// ======Fetch authenticated user's information=======
const getUser = async () => {
 try {
    await getToken(); // Ensure CSRF token is set
    const { data } = await axios.get("/api/user");
    authUser.value = data;
  } catch (error) {
    authUser.value = null;
};
const handleLogout = async () => {
 try {
   await axios.post("/logout");
```

```
authUser.value = null;
    router.push("/login");
  } catch (error) {
    console.error("Logout failed:", error);
};
// =====Handle forgot password========
const handleForgetPassword = async (email) => {
 try {
    loading.value = true;
    await getToken(); // Ensure CSRF token is set
    const response = await axios.post("/forgot-password", { email });
    authStatus.value = response.data.status;
  } catch (error) {
    if (error.response && error.response.status === 422) {
      authErrors.value = error.response.data.errors;
  } finally {
    loading.value = false;
};
// ======Handle reset password========
const handleResetPassword = async (resetData) => {
 try {
   loading.value = true;
    await getToken(); // Ensure CSRF token is set
    const response = await axios.post("/reset-password", resetData);
   // authUser.value = response.data.user;
    authStatus.value = response.data.status;
    router.push("/login");
  } catch (error) {
    if (error.response && error.response.status === 422) {
      console.log(error.response.data)
     authErrors.value = error.response.data.errors;
  } finally {
    loading.value = false;
};
// ======reset properties======
const resetFields = () => {
 authErrors.value = [];
```

```
authStatus.value = null;
    loading.value = false;
  };
  return {
    authUser,
    authErrors,
    getUser,
    handleLogin,
    handleRegister,
    handleLogout,
    handleForgetPassword,
    resetFields,
    handleResetPassword,
    authStatus,
    loading,
 };
});
```

### I) Inside router/index.js

```
import { createRouter, createWebHistory } from "vue-router";
import { useAuthStore } from "../stores/auth";
const routes = [
    path: "/",
    name: "Frontend",
    component: () => import("../components/layouts/FrontendLayout.vue"),
    children: [
        path: "",
        name: "Home",
        component: () => import("../components/frontend/Home.vue"),
      },
    ],
 },
   path: "/auth",
    name: "Auth",
    component: () => import("../components/layouts/AuthLayout.vue"),
    children: [
        path: "/login",
```

```
name: "Login",
        component: () => import("../components/auth/Login.vue"),
        meta: { guestOnly: true },
      },
        path: "/register",
        name: "Register",
        component: () => import("../components/auth/Register.vue"),
        meta: { guestOnly: true },
      },
        path: "/forget-password",
        name: "ForgetPassword",
        component: () => import("../components/auth/ForgetPassword.vue"),
        meta: { guestOnly: true },
      },
        path: "/password-reset/:token",
        name: "ResetPassword",
        component: () => import("../components/auth/ResetPassword.vue"),
        meta: { guestOnly: true },
      },
    ],
  },
    path: "/admin",
    name: "Admin",
    component: () => import("../components/layouts/BackendLayout.vue"),
    children: [
        path: "home",
        name: "Dashboard",
        component: () => import("../components/backend/Dashboard.vue"),
        meta: { requiresAuth: true },
      },
    ],
  },
];
const router = createRouter({
  history: createWebHistory(),
  routes,
});
// Global Navigation Guard
```

```
router.beforeEach(async (to, from, next) => {
  const authStore = useAuthStore(); // Access the auth store
 // Fetch the authenticated user if not already loaded
 if (!authStore.authUser) {
    await authStore.getUser(); // Fetch the user information from the backend
  // Handle protected routes
 if (to.meta.requiresAuth && !authStore.authUser) {
    return next({ name: "Login" });
 // Handle guest-only routes (e.g., /login, /register)
 if (to.meta.guestOnly && authStore.authUser) {
    return next({ name: "Dashboard" });
 // Reset the fields on every route change
 authStore.resetFields();
 // Allow navigation
 next();
});
export default router;
```

#### m) Inside FrontendLayout.vue, BackendLayout.vue and AuthLayout.vue

#### n) Inside Login.vue

```
<script setup>
import { ref } from "vue";
import { useAuthStore } from "../../stores/auth";
// Access the authentication store
const authStore = useAuthStore();
// properties
const form = ref({
  email: "",
  password: "",
});
</script>
<template>
  <div class="container py-5">
    <div class="row justify-content-center">
      <div class="col-md-6">
        <div class="card shadow-lg border-0">
          <div class="card-header bg-primary text-white text-center">
            <h4>Sign In</h4>
          </div>
          <div class="card-body">
            <form @submit.prevent="authStore.handleLogin(form)">
              <div class="mb-4">
                <label for="email" class="form-label">Email address</label>
                <input
                  type="email"
                  v-model="form.email"
                  class="form-control"
                  id="email"
                  placeholder="Enter your email"
                <span class="text-danger" v-if="authStore.authErrors.email">{{
                  authStore.authErrors.email[0]
                }}</span>
              </div>
              <div class="mb-4">
                <label for="exampleInputPassword1" class="form-label"</pre>
                  >Password</label
                <input</pre>
                  type="password"
                  v-model="form.password"
```

```
class="form-control"
                  id="exampleInputPassword1"
                  placeholder="Enter your password"
                <span
                 class="text-danger"
                 v-if="authStore.authErrors.password"
                 >{{ authStore.authErrors.password[0] }}</span
              </div>
              <div class="d-flex justify-content-between mb-4">
               <router-link</pre>
                  :to="{ name: 'ForgetPassword' }"
                  class="text-decoration-none"
                  >Forgot Password?</router-link
              </div>
              <button
               type="submit"
               class="btn btn-primary w-100 mb-3"
                :disabled="authStore.loading"
                {{ authStore.loading ? "Loading..." : "Login" }}
              </button>
            </form>
           <div class="text-center">
              Not a member yet?
               <router-link</pre>
                  :to="{ name: 'Register' }"
                  class="text-decoration-none text-primary fw-bold"
                  >Sign Up</router-link</pre>
             </div>
         </div>
       </div>
     </div>
   </div>
 </div>
</template>
```

#### o) Inside Register.vue

```
<script setup>
import { ref } from "vue";
import { useAuthStore } from "../../stores/auth";
const authStore = useAuthStore();
const form = ref({
  name: "",
  email: "",
  password: "",
  password_confirmation: "",
});
</script>
<template>
  <div class="container py-5">
    <div class="row justify-content-center">
      <div class="col-md-6">
        <div class="card shadow-lg border-0">
          <div class="card-header bg-primary text-white text-center">
            <h4>Register</h4>
          </div>
          <div class="card-body">
            <form @submit.prevent="authStore.handleRegister(form)">
              <div class="mb-4">
                <label for="name" class="form-label">Name</label>
                <input</pre>
                  type="text"
                  class="form-control"
                  id="name"
                  placeholder="Enter your full name"
                  v-model="form.name"
                <span class="text-danger" v-if="authStore.authErrors.name">{{
                  authStore.authErrors.name[0]
                }}</span>
              </div>
              <div class="mb-4">
                <label for="email" class="form-label">Email address</label>
                <input</pre>
                  type="email"
                  class="form-control"
                  id="email"
```

```
placeholder="Enter your email"
      v-model="form.email"
    <span class="text-danger" v-if="authStore.authErrors.email">{{
      authStore.authErrors.email[0]
    }}</span>
  </div>
  <div class="mb-4">
    <label for="password" class="form-label">Password</label>
    <input</pre>
      type="password"
     class="form-control"
     id="password"
      placeholder="Enter your password"
      v-model="form.password"
    <span
      class="text-danger"
      v-if="authStore.authErrors.password"
      >{{ authStore.authErrors.password[0] }}</span</pre>
  </div>
  <div class="mb-4">
    <label for="password confirmation" class="form-label"</pre>
      >Password Confirmation</label
    <input</pre>
      type="password"
     class="form-control"
     id="password_confirmation"
      placeholder="Re-enter your password"
      v-model="form.password_confirmation"
  </div>
  <button
   type="submit"
   class="btn btn-primary w-100 mb-3"
    :disabled="authStore.loading"
    {{ authStore.loading ? "Loading..." : "Register" }}
  </button>
</form>
<div class="text-center">
  Already have an account?
```

#### p) ForgetPassword.vue

```
<script setup>
import { ref } from "vue";
import { useAuthStore } from "../../stores/auth"; // Adjust the path based on
your project structure
// Access the auth store
const authStore = useAuthStore();
// Reactive properties
const email = ref("");
// Handle the forget password form submission
const handleForgetPassword = async () => {
 // Call the store method to handle the forgot password logic
 await authStore.handleForgetPassword(email.value);
 // Reset email and display success message
 email.value = "";
};
</script>
<template>
 <div class="container py-5">
    <div class="row justify-content-center">
      <div class="col-md-6">
        <div
          class="alert alert-success"
          role="alert"
```

```
v-if="authStore.authStatus"
         {{ authStore.authStatus }}
       </div>
       <div class="card shadow-lg border-0">
         <div class="card-header bg-primary text-white text-center">
            <h4>Forget Password</h4>
         </div>
         <div class="card-body">
            <form @submit.prevent="handleForgetPassword">
              <div class="mb-4">
                <label for="email" class="form-label">Email address</label>
               <input</pre>
                 type="email"
                 v-model="email"
                 class="form-control"
                  id="email"
                 placeholder="Enter your email"
                <!-- Display validation error for email -->
                <span class="text-danger" v-if="authStore.authErrors.email">{{
                  authStore.authErrors.email[0]
                }}</span>
              </div>
             <button
                type="submit"
               class="btn btn-primary w-100 mb-3"
                :disabled="authStore.loading"
               {{ authStore.loading ? "Loading..." : "Submit" }}
              </button>
           </form>
         </div>
       </div>
     </div>
   </div>
 </div>
</template>
```

#### q) Inside ResetPassword.vue

```
<script setup>
import { ref } from "vue";
```

```
import { useAuthStore } from "../../stores/auth";
import { useRoute } from "vue-router";
const authStore = useAuthStore();
const route = useRoute();
// Reactive properties
const form = ref({
  password: "",
  password confirmation: "",
  email: route.query.email,
  token: route.params.token,
});
</script>
<template>
  <div class="container py-5">
    <div class="row justify-content-center">
      <div class="col-md-6">
        <div
          class="alert alert-success"
          role="alert"
          v-if="authStore.authStatus"
          {{ authStore.authStatus }}
        </div>
        <div class="card shadow-lg border-0">
          <div class="card-header bg-primary text-white text-center">
            <h4>Reset Password</h4>
          </div>
          <div class="card-body">
            <form @submit.prevent="authStore.handleResetPassword(form)">
              <div class="mb-4">
                <label for="password" class="form-label">New Password</label>
                <input</pre>
                  type="password"
                  v-model="form.password"
                  class="form-control"
                  id="password"
                  placeholder="Enter your password"
                <!-- Display validation error for password -->
                  class="text-danger"
                  v-if="authStore.authErrors.password"
                  >{{ authStore.authErrors.password[0] }}</span</pre>
```

```
<span class="text-danger" v-if="authStore.authErrors.email">{{
                  authStore.authErrors.email[0]
                }}</span>
              </div>
              <div class="mb-4">
                <label for="password confirmation" class="form-label"</pre>
                  >Re-enter Password</label
                <input</pre>
                  type="password"
                  v-model="form.password confirmation"
                  class="form-control"
                  id="password confirmation"
                  placeholder="Re-enter your password"
              </div>
              <button
                type="submit"
                class="btn btn-primary w-100 mb-3"
                :disabled="authStore.loading"
                {{ authStore.loading ? "Loading..." : "Submit" }}
              </button>
            </form>
         </div>
       </div>
     </div>
   </div>
 </div>
</template>
```

## 2) Create a crud operation using restful api.

a) Make model and migration

```
Schema::create('categories', function (Blueprint $table) {
    $table->id();
    $table->string('slug')->unique();
    $table->string('name')->unique();
    $table->string('image');
    $table->enum('status',['active','inactive'])->default('active');
    $table->timestamps();
});
```

b) Make controller php artisan make:controller Api/CategoryController -model=Category

```
* Display a listing of the resource.
   public function index(Request $request)
        $perPage = $request->query('per_page', 10);
        $search = $request->query('search', '');
        $sortBy = $request->query('sort_by', 'created_at'); // Default to
created at
        $sortDirection = $request->query('sort_direction', 'desc'); // Default to
        $query = Category::query();
        if ($search) {
            $query->where(function ($q) use ($search) {
                $q->where('name', 'like', '%' . $search . '%')
                    ->orWhere('status', 'like', '%' . $search . '%');
            });
        // Validate sort_by to prevent SQL injection; only allow specific fields
        $allowedSorts = ['name', 'status', 'created at'];
        $sortBy = in_array($sortBy, $allowedSorts) ? $sortBy : 'created_at';
        $sortDirection = in array(strtolower($sortDirection), ['asc', 'desc']) ?
$sortDirection : 'desc';
        $query->orderBy($sortBy, $sortDirection);
        $categories = $query->paginate($perPage);
        return CategoryResource::collection($categories);
```

```
}
    * Store a newly created resource in storage.
   public function store(Request $request)
       $validator = Validator::make($request->all(), [
           'name' => 'required|string|max:255',
           'status' => 'required|in:active,inactive',
           'image' => 'required|image|max:2048', // Max 2MB
       ]);
       if ($validator->fails()) {
           return response()->json([
               'errors' => $validator->errors()
           ], 422);
       $data = $request->all();
       if ($request->hasFile('image')) {
           $data['image'] = $request->file('image')->store('categories',
public');
       $category = Category::create($data);
       return new CategoryResource($category);
   }
    * Display the specified resource.
   public function show(Category $category)
       return new CategoryResource($category);
   }
   * Update the specified resource in storage.
   public function update(Request $request, Category $category)
       $validator = Validator::make($request->all(), [
```

```
'name' => 'sometimes|required|string|max:255',
           'status' => 'sometimes|required|in:active,inactive',
           'image' => 'nullable|image|max:2048',
       ]);
       if ($validator->fails()) {
           return response()->json([
               'errors' => $validator->errors()
           ], 422);
       $data = $request->all();
       if ($request->hasFile('image')) {
           if ($category->image) {
               Storage::disk('public')->delete($category->image);
           $data['image'] = $request->file('image')->store('categories',
public');
       $category->update($data);
       return new CategoryResource($category);
   }
    * Remove the specified resource from storage.
   public function destroy(Category $category)
       if ($category->image) {
           Storage::disk('public')->delete($category->image);
       $category->delete();
       return response()->json(null, 204);
```

c) Make resource php artisan make:resource CategoryResource

```
public function toArray(Request $request): array
{
    return [
```

```
'id' => $this->id,
    'slug' => $this->slug,
    'name' => $this->name,
    'status' => $this->status,
    'image' => $this->image ? asset('storage/' . $this->image) : null,
    'created_at' => $this->created_at->toDateTimeString(),
    'updated_at' => $this->updated_at->toDateTimeString(),
];
}
```

## d) Inside api.php

```
Route::group(['prefix' => 'categories'], function () {
    Route::get('/', [CategoryController::class, 'index'])-
>name('categories.index');
    Route::post('/', [CategoryController::class, 'store'])-
>name('categories.store');
    Route::get('/{category}', [CategoryController::class, 'show'])-
>name('categories.show');
    Route::put('/{category}', [CategoryController::class, 'update'])-
>name('categories.update');
    Route::delete('/{category}', [CategoryController::class, 'destroy'])-
>name('categories.destroy');
});
```

## **In VueJS**

a) Inside src/axios.js

```
import axios from "axios";
// Base configuration
axios.defaults.baseURL = "http://localhost:8000";
axios.defaults.withCredentials = true;
// Interceptor to add CSRF token header
axios.interceptors.request.use(config => {
    const token = document.cookie.split('; ').find(row => row.startsWith('XSRF-TOKEN='));
    if (token) {
        config.headers['X-XSRF-TOKEN'] = decodeURIComponent(token.split('=')[1]);
    }
    return config;
});
export default axios;
```

## b) Inside src/stores/category.js

```
// src/stores/category.js
import { defineStore } from "pinia";
import { ref } from "vue";
import axios from "axios"; // Assuming your axios configuration is here
export const useCategoryStore = defineStore("category", () => {
    // ====== State ======
    const categories = ref([]); // List of all categories
    const currentCategory = ref(null); // Single category for view/edit
    const categoryErrors = ref([]); // Validation or API errors
    const loading = ref(false); // Loading state for async operations
    const pagination = ref({}); // Pagination metadata
    // ====== Fetch all categories (View/List) ======
    const fetchCategories = async (page = 1, perPage = 10, search = '', sortBy =
 created at', sortDirection = 'desc') => {
        console.log(sortDirection);
        try {
            loading.value = true;
            const url = `/api/categories?page=${page}&per_page=${perPage}` +
                (search ? `&search=${encodeURIComponent(search)}` : '') +
                `&sort_by=${sortBy}&sort_direction=${sortDirection}`;
            const response = await axios.get(url);
            console.log('API Response:', response.data);
            categories.value = response.data.data;
            pagination.value = response.data.meta || {};
            console.log('Pagination:', pagination.value);
        } catch (error) {
            console.error("Fetch error:", error);
            categories.value = [];
            pagination.value = {};
        } finally {
            loading.value = false;
    };
    // ====== Fetch a single category (View/Edit) =======
    const fetchCategory = async (slug) => {
        try {
            loading.value = true;
            const response = await axios.get(`/api/categories/${slug}`);
            currentCategory.value = response.data.data;
        } catch (error) {
```

```
console.error("Error fetching category:", error);
            categoryErrors.value = error.response?.data?.errors || ["Category not
found"];
            currentCategory.value = null;
        } finally {
            loading.value = false;
    };
    // ===== Store/Create a new category ======
    const storeCategory = async (categoryData) => {
        try {
            loading.value = true;
            categoryErrors.value = [];
            const response = await axios.post("/api/categories", categoryData, {
                headers: { "Content-Type": "multipart/form-data" },
            });
            const newCategory = response.data.data;
            return newCategory; // Return new category for local update
        } catch (error) {
            if (error.response && error.response.status === 422) {
                categoryErrors.value = error.response.data.errors;
                console.error("Error creating category:", error);
            throw error;
        } finally {
            loading.value = false;
    };
    // ====== Update an existing category ======
    const updateCategory = async (slug, categoryData) => {
        try {
            loading.value = true;
            categoryErrors.value = [];
            categoryData.append('_method', 'PUT');
            const response = await axios.post(`/api/categories/${slug}`,
categoryData, {
                headers: { "Content-Type": "multipart/form-data" },
            });
            const updatedCategory = response.data.data;
            return updatedCategory; // Return updated category for local update
        } catch (error) {
           if (error.response && error.response.status === 422) {
```

```
categoryErrors.value = error.response.data.errors;
        } else {
            console.error("Error updating category:", error);
        throw error;
    } finally {
        loading.value = false;
};
// ====== Delete a category ======
const deleteCategory = async (slug) => {
   try {
        loading.value = true;
        await axios.delete(`/api/categories/${slug}`);
        return slug; // Return slug for local removal
    } catch (error) {
        console.error("Error deleting category:", error);
        throw error;
    } finally {
        loading.value = false;
};
// ====== Reset errors ======
const resetErrors = () => {
   categoryErrors.value = [];
};
// ====== Return state and actions ======
return {
    categories,
   currentCategory,
    categoryErrors,
   loading,
    pagination,
   fetchCategories,
    fetchCategory,
    storeCategory,
    updateCategory,
   deleteCategory,
   resetErrors,
};
```

## c) Inside src/components/backend/category/Category.vue

```
<script setup>
import { ref, onMounted, computed, watch } from 'vue';
import { useCategoryStore } from '../../stores/category';
import CreateCategoryModal from './CreateCategoryModal.vue';
import UpdateCategoryModal from './UpdateCategoryModal.vue';
import Swal from 'sweetalert2';
import * as bootstrap from 'bootstrap';
const debounce = (fn, delay) => {
    let timeoutId;
   return (...args) => {
        clearTimeout(timeoutId);
        timeoutId = setTimeout(() => fn(...args), delay);
    };
};
const categoryStore = useCategoryStore();
const createModalRef = ref(null);
const updateModalRef = ref(null);
const selectedSlug = ref(null);
const searchQuery = ref('');
const selectedImage = ref(null);
const sortBy = ref('created_at');
const sortDirection = ref('desc');
const currentPage = ref(1);
const itemsPerPage = ref(10);
const perPageOptions = [5, 10, 20, 50];
const tableItems = computed(() => {
   const startIndex = (currentPage.value - 1) * itemsPerPage.value + 1;
    return categoryStore.categories.map((category, index) => ({
        ...category,
        sn: startIndex + index,
    }));
});
const totalItems = computed(() => categoryStore.pagination.total | 0);
const totalPages = computed(() => Math.ceil(totalItems.value /
itemsPerPage.value));
onMounted(() => {
   fetchCategories();
```

```
});
const fetchCategories = () => {
    categoryStore.fetchCategories(
        currentPage.value,
        itemsPerPage.value,
        searchQuery.value,
        sortBy.value,
        sortDirection.value
    );
};
const debouncedFetchCategories = debounce(fetchCategories, 1000);
watch(searchQuery, () => {
    currentPage.value = 1;
    debouncedFetchCategories();
});
const toggleSort = (field) => {
    if (sortBy.value === field) {
        sortDirection.value = sortDirection.value === 'asc' ? 'desc' : 'asc';
    } else {
        sortBy.value = field;
        sortDirection.value = 'asc';
    currentPage.value = 1;
    fetchCategories();
};
const goToPreviousPage = () => {
    if (currentPage.value > 1) {
        currentPage.value--;
        fetchCategories();
};
const goToNextPage = () => {
    if (currentPage.value < totalPages.value) {</pre>
        currentPage.value++;
        fetchCategories();
};
const changePerPage = (event) => {
```

```
itemsPerPage.value = parseInt(event.target.value, 10);
    currentPage.value = 1;
    fetchCategories();
};
const openCreateModal = () => {
    createModalRef.value.open();
};
const openUpdateModal = (slug) => {
    selectedSlug.value = slug;
    if (updateModalRef.value) {
        updateModalRef.value.open(slug);
    } else {
        console.error('Update modal reference is null');
};
const handleCreateCategory = (newCategory) => {
    if (categoryStore.categories.length < itemsPerPage.value) {</pre>
        categoryStore.categories.unshift(newCategory);
        categoryStore.pagination.total = (categoryStore.pagination.total || 0) +
1;
        if (categoryStore.categories.length > itemsPerPage.value) {
            categoryStore.categories.pop();
    } else {
        fetchCategories();
};
const handleUpdateCategory = (updatedCategory) => {
    const index = categoryStore.categories.findIndex(cat => cat.slug ===
updatedCategory.slug);
    if (index !== -1) {
        categoryStore.categories[index] = updatedCategory;
};
const confirmDelete = async (slug) => {
    const result = await Swal.fire({
        title: 'Are you sure?',
        text: "You won't be able to revert this!",
        icon: 'warning',
        showCancelButton: true,
```

```
confirmButtonColor: '#3085d6',
        cancelButtonColor: '#d33',
        confirmButtonText: 'Yes, delete it!',
        cancelButtonText: 'No, cancel',
    });
    if (result.isConfirmed) {
        try {
            const deletedSlug = await categoryStore.deleteCategory(slug);
            categoryStore.categories = categoryStore.categories.filter(cat =>
cat.slug !== deletedSlug);
            categoryStore.pagination.total = (categoryStore.pagination.total | |
1) - 1;
            if (!categoryStore.categories.length && currentPage.value > 1) {
                currentPage.value--;
                fetchCategories();
            } else if (categoryStore.categories.length === 0 && currentPage.value
=== 1) {
                fetchCategories();
            Swal.fire({
                title: 'Deleted!',
                text: 'The category has been deleted.',
                icon: 'success',
                timer: 1500,
                showConfirmButton: false,
            });
        } catch (error) {
            Swal.fire({
                title: 'Error!',
                text: 'Failed to delete the category.',
                icon: 'error',
                confirmButtonText: 'OK',
            });
};
const openImageModal = (imageUrl) => {
    selectedImage.value = imageUrl;
    const modalElement = document.getElementById('imageModal');
    if (modalElement) {
        const modal = new bootstrap.Modal(modalElement);
        modal.show();
    } else {
```

```
console.error('Modal element not found');
};
</script>
<template>
    <main class="container-fluid py-4 px-5 bg-light">
       <div class="card border-0 shadow-sm">
           <div class="card-header bg-white py-3 px-4 d-flex justify-content-</pre>
between align-items-center">
               <h5 class="mb-0 fw-semibold">Recent Categories</h5>
               <div class="d-flex gap-2">
                   <button class="btn btn-primary btn-sm d-flex align-items-</pre>
center gap-1" @click="openCreateModal">
                       <i class="bi bi-plus"></i> Add New
                   </button>
                   <a href="#" class="btn btn-outline-primary btn-sm d-flex
align-items-center gap-1">
                       View all <i class="bi bi-arrow-right"></i>
               </div>
           </div>
           <div class="card-body p-0">
               <!-- Search Bar (Always Visible) -->
               <div class="p-3">
                   <input v-model="searchQuery" type="text" class="form-control"</pre>
placeholder="Search categories..." />
               </div>
               <!-- Table Content -->
               <div v-if="categoryStore.loading" class="text-center py-4">
                   <div class="spinner-border text-primary" role="status">
                       <span class="visually-hidden">Loading...</span>
                   </div>
               </div>
               <div v-else-if="!categoryStore.categories.length" class="text-</pre>
center py-4">
                   No categories found.
               </div>
               <div v-else>
                   <div class="table-responsive">
                       <thead class="table-light">
                               >
                                  S.N.
                                  Image
```

```
@click="toggleSort('name')">
                                  Name
                                  <!-- <i class="bi bi-arrow-down-up ms-
1"></i>
                                  <i v-if="sortBy === 'name'"</pre>
                                      :class="sortDirection === 'asc' ? 'bi
bi-arrow-up' : 'bi bi-arrow-down'"
                                      class="ms-1"></i></i>
                                  <i v-else class="bi bi-arrow-down-up ms-</pre>
1"></i>
                               @click="toggleSort('status')">
                                  Status
                                  <!-- <i class="bi bi-arrow-down-up ms-
1"></i> -->
                                  <i v-if="sortBy === 'status'"</pre>
                                      :class="sortDirection === 'asc' ? 'bi
bi-arrow-up' : 'bi bi-arrow-down'"
                                      class="ms-1"></i></i>
                                  <i v-else class="bi bi-arrow-down-up ms-</pre>
                               Actions
                           </thead>
                        {{ item.sn }}
                                  <img v-if="item.image" :src="item.image"</pre>
alt="Category Image"
                                      class="img-thumbnail" style="height:
20px; cursor: pointer;"
                                      @click="openImageModal(item.image)">
                                  <span v-else>-</span>
                               {{ item.name }}
                                  <span :class="[</pre>
                                      'badge',
                                      item.status === 'active' ? 'bg-
success' : 'bg-danger'
```

```
{{ item.status }}
                                         </span>
                                     <button class="btn btn-sm btn-primary me-</pre>
2" @click="openUpdateModal(item.slug)">
                                             <i class="bi bi-pencil"></i></i>
                                         </button>
                                         <button class="btn btn-sm btn-danger"</pre>
@click="confirmDelete(item.slug)">
                                             <i class="bi bi-trash"></i></i>
                                         </button>
                                     </div>
                    <div class="d-flex justify-content-between align-items-center</pre>
p-3">
                         <div>
                             <select v-model="itemsPerPage" class="form-select</pre>
form-select-sm" @change="changePerPage">
                                 <option v-for="option in perPageOptions"</pre>
:key="option" :value="option">
                                     {{ option }}
                                 </option>
                             </select>
                         </div>
                         <div class="text-muted">
                             Showing {{ (currentPage - 1) * itemsPerPage + 1 }} to
                             {{ Math.min(currentPage * itemsPerPage, totalItems)
}} of {{ totalItems }} entries
                         </div>
                         <div>
                             <button class="btn btn-sm btn-primary me-2"</pre>
:disabled="currentPage <= 1"</pre>
                                 @click="goToPreviousPage">
                                 Previous
                             </button>
                             <span>Page {{ currentPage }} of {{ totalPages
}}</span>
                             <button class="btn btn-sm btn-primary ms-2"</pre>
:disabled="currentPage >= totalPages"
                                 @click="goToNextPage">
                                 Next
```

```
</button>
                         </div>
                     </div>
                </div>
            </div>
        </div>
        <div class="modal fade" id="imageModal" tabindex="-1" aria-</pre>
labelledby="imageModalLabel" aria-hidden="true">
            <div class="modal-dialog modal-dialog-centered">
                <div class="modal-content">
                     <div class="modal-header">
                         <h5 class="modal-title" id="imageModalLabel">Category
Image</h5>
                         <button type="button" class="btn-close" data-bs-</pre>
dismiss="modal" aria-label="Close"></button>
                     </div>
                     <div class="modal-body text-center">
                         <img v-if="selectedImage" :src="selectedImage" alt="Full</pre>
Image" class="img-fluid"
                             style="max-height: 500px;">
                     </div>
                     <div class="modal-footer">
                         <button type="button" class="btn btn-secondary" data-bs-</pre>
dismiss="modal">Close</button>
                     </div>
                </div>
            </div>
        </div>
        <CreateCategoryModal ref="createModalRef" @create-</pre>
category="handleCreateCategory" />
        <UpdateCategoryModal ref="updateModalRef" :slug="selectedSlug" @update-</pre>
category="handleUpdateCategory" />
    </main>
</template>
<style scoped>
.fw-semibold {
    font-weight: 600;
.gap-2 {
    gap: 8px;
```

```
.img-thumbnail {
    border: 1px solid #ddd;
    padding: 2px;
}
.cursor-pointer {
    cursor: pointer;
}
</style>
```

### d) Inside CreateCategoryModal.vue

```
<script setup>
import { ref, onMounted, onUnmounted } from 'vue';
import { Modal } from 'bootstrap';
import { useCategoryStore } from '../../stores/category';
import Toastify from 'toastify-js'; // Import Toastify
const emit = defineEmits(['create-category']);
const modalRef = ref(null);
let bsModal = null;
const categoryStore = useCategoryStore();
const newCategory = ref({
   name: '',
    status: 'active',
    image: null,
});
const formErrors = ref({}); // Field-specific errors
// Initialize Bootstrap modal on mount
onMounted(() => {
    bsModal = new Modal(modalRef.value, {
        backdrop: true,
        keyboard: true,
    });
});
// Cleanup on unmount
onUnmounted(() => {
   if (bsModal) {
       bsModal.dispose();
```

```
});
const resetForm = () => {
    newCategory.value = {
        name: '',
        status: 'active',
        image: null,
    };
    formErrors.value = {};
    categoryStore.resetErrors();
    bsModal.hide();
};
// Handle image file selection
const handleImageChange = (event) => {
    newCategory.value.image = event.target.files[0];
};
// Handle form submission
const handleSubmit = async () => {
    formErrors.value = {};
    const formData = new FormData();
    formData.append('name', newCategory.value.name);
    formData.append('status', newCategory.value.status);
    if (newCategory.value.image) {
        formData.append('image', newCategory.value.image);
    try {
        const createdCategory = await categoryStore.storeCategory(formData);
        // Emit event to parent (optional)
        emit('create-category', createdCategory);
        // Show success toast
        Toastify({
            text: 'Category created successfully!',
            duration: 3000, // 3 seconds
            close: true,
            gravity: 'bottom', // 'top' or 'bottom'
            position: 'right', // 'left', 'center', or 'right'
            backgroundColor: '#28a745', // Green for success
```

```
stopOnFocus: true,
        }).showToast();
        // Close modal
        resetForm();
    } catch (error) {
        if (categoryStore.categoryErrors) {
            formErrors.value = categoryStore.categoryErrors;
};
defineExpose({
    open: () => {
        bsModal.show();
    },
});
</script>
<template>
    <div ref="modalRef" class="modal fade" tabindex="-1" role="dialog" aria-</pre>
labelledby="createCategoryModalLabel"
        aria-hidden="true">
        <div class="modal-dialog modal-dialog-centered">
            <div class="modal-content">
                <div class="modal-header">
                    <h5 class="modal-title" id="createCategoryModalLabel">Create
New Category</h5>
                    <button type="button" class="btn-close" data-bs-</pre>
dismiss="modal" aria-label="Close"
                        @click="resetForm"></button>
                </div>
                <div class="modal-body">
                    <form @submit.prevent="handleSubmit">
                         <!-- Name Field -->
                         <div class="mb-3">
                             <label for="categoryName" class="form-label">Category
Name</label>
                             <input type="text" class="form-control"</pre>
id="categoryName" v-model="newCategory.name"
                                 placeholder="Enter category name" required
:class="{ 'is-invalid': formErrors.name }">
                             <div v-if="formErrors.name" class="invalid-feedback">
                                 {{ formErrors.name[0] }}
                             </div>
```

```
</div>
                         <!-- Status Field -->
                         <div class="mb-3">
                              <label for="categoryStatus" class="form-</pre>
label">Status</label>
                             <select class="form-select" id="categoryStatus" v-</pre>
model="newCategory.status"
                                  :class="{ 'is-invalid': formErrors.status }">
                                  <option value="active">Active</option>
                                  <option value="inactive">Inactive</option>
                              </select>
                             <div v-if="formErrors.status" class="invalid-</pre>
feedback">
                                  {{ formErrors.status[0] }}
                             </div>
                         </div>
                         <!-- Image Field -->
                         <div class="mb-3">
                              <label for="categoryImage" class="form-</pre>
label">Image</label>
                              <input type="file" class="form-control"</pre>
id="categoryImage" accept="image/*"
                                  @change="handleImageChange" :class="{ 'is-
invalid': formErrors.image }">
                             <div v-if="formErrors.image" class="invalid-</pre>
feedback">
                                  {{ formErrors.image[0] }}
                             </div>
                         </div>
                     </form>
                 </div>
                 <div class="modal-footer">
                     <button type="button" class="btn btn-secondary" data-bs-</pre>
dismiss="modal" @click="resetForm">
                         Close
                     </button>
                     <button type="button" class="btn btn-primary"</pre>
@click="handleSubmit"
                         :disabled="categoryStore.loading">
                         {{ categoryStore.loading ? 'Creating...' : 'Create
Category' }}
                     </button>
                 </div>
```

```
</div>
        </div>
    </div>
</template>
<style scoped>
.modal-content {
    border-radius: 0.75rem;
.form-label {
    font-weight: 500;
.form-control,
.form-select {
    border-radius: 0.5rem;
@media (max-width: 576px) {
    .modal-dialog {
        margin: 1rem;
</style>
```

## e) Inside UpdateCategoryModal.vue

```
const categoryStore = useCategoryStore();
const categoryData = ref({
   name: '',
    status: 'active',
    image: null,
});
const formErrors = ref({});
// Initialize Bootstrap modal on mount
onMounted(() => {
   bsModal = new Modal(modalRef.value, {
        backdrop: true,
        keyboard: true,
    });
});
// Cleanup on unmount
onUnmounted(() => {
    if (bsModal) {
        bsModal.dispose();
});
// Fetch category data and populate form
const fetchCategoryData = async (slug) => {
   try {
        await categoryStore.fetchCategory(slug);
        if (categoryStore.currentCategory) {
            categoryData.value = {
                name: categoryStore.currentCategory.name || '',
                status: categoryStore.currentCategory.status || 'active',
                image: null,
            };
        } else {
            throw new Error('Category not found');
    } catch (error) {
        Toastify({
            text: 'Failed to load category data!',
            duration: 3000,
            close: true,
            gravity: 'bottom',
```

```
position: 'right',
            backgroundColor: '#dc3545',
        }).showToast();
        resetForm();
};
// Reset form and errors
const resetForm = () => {
    categoryData.value = {
        name: '',
        status: 'active',
        image: null,
    };
    formErrors.value = {};
    categoryStore.resetErrors();
    if (bsModal) {
        bsModal.hide();
};
// Handle image file selection
const handleImageChange = (event) => {
    categoryData.value.image = event.target.files[0];
};
// Handle form submission
const handleSubmit = async () => {
    formErrors.value = {};
    const formData = new FormData();
    formData.append('name', categoryData.value.name);
    formData.append('status', categoryData.value.status);
    if (categoryData.value.image) {
        formData.append('image', categoryData.value.image);
    try {
        const updatedCategory = await categoryStore.updateCategory(props.slug,
formData);
        emit('update-category', updatedCategory);
        Toastify({
            text: 'Category updated successfully!',
            duration: 3000,
            close: true,
```

```
gravity: 'bottom',
            position: 'right',
            backgroundColor: '#28a745',
        }).showToast();
        resetForm();
    } catch (error) {
        if (categoryStore.categoryErrors) {
            formErrors.value = categoryStore.categoryErrors;
};
// Open modal after fetching data, accepting slug as a parameter
const open = async (slug) => {
    await fetchCategoryData(slug); // Use the passed slug directly
    if (categoryStore.currentCategory) {
        bsModal.show();
};
defineExpose({
    open,
});
</script>
<template>
    <div ref="modalRef" class="modal fade" tabindex="-1" role="dialog" aria-</pre>
labelledby="updateCategoryModalLabel"
        aria-hidden="true">
        <div class="modal-dialog modal-dialog-centered">
            <div class="modal-content">
                <div class="modal-header">
                    <h5 class="modal-title" id="updateCategoryModalLabel">Update
Category</h5>
                    <button type="button" class="btn-close" data-bs-</pre>
dismiss="modal" aria-label="Close"
                        @click="resetForm"></button>
                </div>
                <div class="modal-body">
                    <form @submit.prevent="handleSubmit">
                        <!-- Name Field -->
                        <div class="mb-3">
                             <label for="categoryName" class="form-label">Category
Name</label>
```

```
<input type="text" class="form-control"</pre>
id="categoryName" v-model="categoryData.name"
                                 placeholder="Enter category name" required
:class="{ 'is-invalid': formErrors.name }">
                             <div v-if="formErrors.name" class="invalid-feedback">
                                 {{ formErrors.name[0] }}
                             </div>
                         </div>
                         <!-- Status Field -->
                         <div class="mb-3">
                             <label for="categoryStatus" class="form-</pre>
label">Status</label>
                             <select class="form-select" id="categoryStatus" v-</pre>
model="categoryData.status"
                                 :class="{ 'is-invalid': formErrors.status }">
                                 <option value="active">Active</option>
                                 <option value="inactive">Inactive</option>
                             </select>
                             <div v-if="formErrors.status" class="invalid-</pre>
feedback">
                                 {{ formErrors.status[0] }}
                             </div>
                         <!-- Image Field -->
                         <div class="mb-3">
                             <label for="categoryImage" class="form-label">Image
(optional)</label>
                             <input type="file" class="form-control"</pre>
id="categoryImage" accept="image/*"
                                 @change="handleImageChange" :class="{ 'is-
invalid': formErrors.image }">
                             <div v-if="formErrors.image" class="invalid-</pre>
feedback">
                                 {{ formErrors.image[0] }}
                             </div>
                         </div>
                    </form>
                </div>
                 <div class="modal-footer">
                     <button type="button" class="btn btn-secondary" data-bs-</pre>
dismiss="modal" @click="resetForm">
                         Close
                    </button>
```

```
<button type="button" class="btn btn-primary"</pre>
@click="handleSubmit"
                         :disabled="categoryStore.loading">
                         {{ categoryStore.loading ? 'Updating...' : 'Update
Category' }}
                    </button>
                </div>
            </div>
        </div>
    </div>
</template>
<style scoped>
.modal-content {
    border-radius: 0.75rem;
.form-label {
    font-weight: 500;
.form-control,
.form-select {
    border-radius: 0.5rem;
@media (max-width: 576px) {
    .modal-dialog {
        margin: 1rem;
</style>
```