Step 1: Laravel 8 Installation

We are going from scratch so, If you haven't installed laravel in your system then you can run bellow command and get fresh Laravel project.

```
composer create-project --prefer-dist laravel/laravel blog
```

Step 2: Install Composer Packages

Now we require to install Spatie package for ACL, that way we can use it's method. Also we will install form collection package. So Open your terminal and run bellow command.

```
composer require spatie/laravel-permission

composer require laravelcollective/html
```

Now open config/app.php file and add service provider and aliase.

config/app.php

```
'providers' => [

      ....

      Spatie\Permission\PermissionServiceProvider::class,

],
```

We can also custom changes on Spatie package, so if you also want to changes then you can fire bellow command and get config file in config/permission.php and migration files.

```
php artisan vendor:publish --
provider="Spatie\Permission\PermissionServiceProvider"
```

Now you can see permission.php file and one migrations. so you can run migration using following command:

```
php artisan migrate
```

Read Also: Laravel 8 CRUD Application Tutorial for Beginners

Step 3: Create Product Migration

In this step we have to create three migration for products table as using bellow command:

```
php artisan make:migration create_products_table
```

products table:

```
<?php


use Illuminate\Support\Facades\Schema;

use Illuminate\Database\Schema\Blueprint;

use Illuminate\Database\Migrations\Migration;


class CreateProductsTable extends Migration

{

    /**

     * Run the migrations.

     *

     * @return void

     */

    public function up()

    {

        Schema::create('products', function (Blueprint
$table) {

            $table->id();

            $table->string('name');

            $table->text('detail');
            $table->timestamps();
        });
    }

    /**
     * Reverse the migrations.
     *
     * @return void
     */
    public function down()
    {
        Schema::dropIfExists('products');
    }
}
```

Now run migration:

```
php artisan migrate
```

Step 4: Create Models

In this step we have to create model for User and Product table, so if you get fresh project then you have User Model have so just replace code and other you should create.

app/Models/User.php

```
<?php

namespace App\Models;
```

```php
use Illuminate\Contracts\Auth\MustVerifyEmail;
use Illuminate\Database\Eloquent\Factories\HasFactory;
use Illuminate\Foundation\Auth\User as Authenticatable;
use Illuminate\Notifications\Notifiable;
use Spatie\Permission\Traits\HasRoles;

class User extends Authenticatable
{
    use HasFactory, Notifiable, HasRoles;

    /**
     * The attributes that are mass assignable.
     *
     * @var array
     */
    protected $fillable = [
        'name',
        'email',
        'password',
    ];

    /**
     * The attributes that should be hidden for arrays.
     *
     * @var array
     */
    protected $hidden = [
        'password',
        'remember_token',
    ];

    /**
     * The attributes that should be cast to native types.
     *
     * @var array
     */
    protected $casts = [
        'email_verified_at' => 'datetime',
    ];
}
```

app/Models/Product.php

```
<?php

namespace App\Models;

use Illuminate\Database\Eloquent\Factories\HasFactory;
use Illuminate\Database\Eloquent\Model;

class Product extends Model
{
    use HasFactory;

    /**
     * The attributes that are mass assignable.
     *
     * @var array
     */
    protected $fillable = [
        'name', 'detail'
    ];
}
```

Step 5: Add Middleware

Spatie package provide it's in-built middleware that way we can use it simply and that is display as bellow:

role

permission

So, we have to add middleware in Kernel.php file this way :

app/Http/Kernel.php

```
....
```

```
protected $routeMiddleware = [

    ....

    'role' =>
\Spatie\Permission\Middlewares\RoleMiddleware::class,

    'permission' =>
\Spatie\Permission\Middlewares\PermissionMiddleware::class,

    'role_or_permission' =>
\Spatie\Permission\Middlewares\RoleOrPermissionMiddleware::class,

]

....
```

Step 6: Create Authentication

You have to follow few step to make auth in your laravel 8 application.

First you need to install laravel/ui package as like bellow:

```
composer require laravel/ui
```

Here, we need to generate auth scaffolding in laravel 8 using laravel ui command. so, let's generate it by bellow command:

```
php artisan ui bootstrap --auth
```

Now you need to run npm command, otherwise you can not see better layout of login and register page.

Install NPM:

```
npm install
```

Run NPM:

```
npm run dev
```

Step 7: Create Routes

We require to add number of route for users module, products module and roles module. In this this route i also use middleware with permission for roles and products route, so add route this way:

routes/web.php

```
<?php


use Illuminate\Support\Facades\Route;


use App\Http\Controllers\HomeController;

use App\Http\Controllers\RoleController;

use App\Http\Controllers\UserController;

use App\Http\Controllers\ProductController;


/*

|--------------------------------------------------------------------------

| Web Routes

|--------------------------------------------------------------------------

|

| Here is where you can register web routes for your application. These

| routes are loaded by the RouteServiceProvider within a group which
| contains the "web" middleware group. Now create something great!

|

*/



Route::get('/', function () {

    return view('welcome');

});



Auth::routes();



Route::get('/home', [HomeController::class, 'index'])->name('home');



Route::group(['middleware' => ['auth']], function() {

    Route::resource('roles', RoleController::class);

    Route::resource('users', UserController::class);

    Route::resource('products', ProductController::class);

});
```

Step 8: Add Controllers

In this step we have add three controller for users module, products module and roles module so you can create three controller like as bellow:

app/Http/Controllers/UserController.php

```
<?php
```

```
namespace App\Http\Controllers;

use Illuminate\Http\Request;
use App\Http\Controllers\Controller;
use App\Models\User;
use Spatie\Permission\Models\Role;
use DB;
use Hash;
use Illuminate\Support\Arr;

class UserController extends Controller
{
    /**
     * Display a listing of the resource.
     *
     * @return \Illuminate\Http\Response
     */
    public function index(Request $request)
    {
        $data = User::orderBy('id','DESC')-
>paginate(5);
        return view('users.index',compact('data'))
            ->with('i', ($request->input('page', 1) -
1) * 5);
```

```
    }


    /**
     * Show the form for creating a new resource.
     *
     * @return \Illuminate\Http\Response
     */
    public function create()
    {
        $roles = Role::pluck('name','name')->all();
        return view('users.create',compact('roles'));
    }


    /**
     * Store a newly created resource in storage.
     *
     * @param  \Illuminate\Http\Request  $request
     * @return \Illuminate\Http\Response
     */
    public function store(Request $request)
    {
        $this->validate($request, [
            'name' => 'required',
            'email' =>
'required|email|unique:users,email',
            'password' => 'required|same:confirm-
password',
            'roles' => 'required'
        ]);

        $input = $request->all();
        $input['password'] =
Hash::make($input['password']);

        $user = User::create($input);
        $user->assignRole($request->input('roles'));

        return redirect()->route('users.index')
                        ->with('success','User created
successfully');
    }

    /**
     * Display the specified resource.
     *
     * @param  int  $id
     * @return \Illuminate\Http\Response
     */
    public function show($id)
    {

        $user = User::find($id);

        return view('users.show',compact('user'));

    }


    /**

     * Show the form for editing the specified
resource.

     *

     * @param  int  $id

     * @return \Illuminate\Http\Response

     */

    public function edit($id)

    {

        $user = User::find($id);

        $roles = Role::pluck('name','name')->all();

        $userRole = $user->roles->pluck('name','name')-
>all();


        return
view('users.edit',compact('user','roles','userRole'));

    }


    /**

     * Update the specified resource in storage.
     *
     * @param  \Illuminate\Http\Request  $request
     * @param  int  $id
     * @return \Illuminate\Http\Response
     */
    public function update(Request $request, $id)
    {
        $this->validate($request, [
            'name' => 'required',
            'email' =>
'required|email|unique:users,email,'.$id,
            'password' => 'same:confirm-password',
            'roles' => 'required'
        ]);


        $input = $request->all();
        if(!empty($input['password'])){
            $input['password'] =
Hash::make($input['password']);
        }else{
            $input =
Arr::except($input,array('password'));
        }


        $user = User::find($id);
        $user->update($input);
        DB::table('model_has_roles')-
>where('model_id',$id)->delete();


        $user->assignRole($request->input('roles'));


        return redirect()->route('users.index')
                        ->with('success','User updated
successfully');
    }


    /**
     * Remove the specified resource from storage.
     *
     * @param  int  $id
     * @return \Illuminate\Http\Response
     */
    public function destroy($id)
    {
        User::find($id)->delete();
        return redirect()->route('users.index')
                        ->with('success','User deleted
successfully');
    }
}
```

app/Http/Controllers/ProductController.php

```php
<?php

namespace App\Http\Controllers;

use App\Models\Product;
use Illuminate\Http\Request;

class ProductController extends Controller
{
    /**
     * Display a listing of the resource.
     *
     * @return \Illuminate\Http\Response
     */
    function __construct()
    {
         $this->middleware('permission:product-list|product-create|product-edit|product-delete', ['only' => ['index','show']]);
         $this->middleware('permission:product-create', ['only' => ['create','store']]);
         $this->middleware('permission:product-edit', ['only' => ['edit','update']]);
         $this->middleware('permission:product-delete', ['only' => ['destroy']]);
    }

    /**

     * Display a listing of the resource.

     *

     * @return \Illuminate\Http\Response

     */

    public function index()

    {

        $products = Product::latest()->paginate(5);

        return 
view('products.index',compact('products'))

            ->with('i', (request()->input('page', 1) - 
1) * 5);

    }



    /**

     * Show the form for creating a new resource.

     *

     * @return \Illuminate\Http\Response

     */

    public function create()

    {

        return view('products.create');

    }
    /**
     * Store a newly created resource in storage.
     *
     * @param  \Illuminate\Http\Request  $request
     * @return \Illuminate\Http\Response
     */
    public function store(Request $request)
    {
        request()->validate([
            'name' => 'required',
            'detail' => 'required',
        ]);

        Product::create($request->all());

        return redirect()->route('products.index')
                        ->with('success','Product
created successfully.');
    }

    /**
     * Display the specified resource.
     *
     * @param  \App\Product  $product
     * @return \Illuminate\Http\Response
     */
    public function show(Product $product)
    {
        return
view('products.show',compact('product'));
    }


    /**
     * Show the form for editing the specified
resource.
     *
     * @param  \App\Product  $product
     * @return \Illuminate\Http\Response
     */
    public function edit(Product $product)
    {
        return
view('products.edit',compact('product'));
    }


    /**
     * Update the specified resource in storage.
     *
     * @param  \Illuminate\Http\Request  $request
     * @param  \App\Product  $product
     * @return \Illuminate\Http\Response
     */
    public function update(Request $request, Product $product)
    {
         request()->validate([
            'name' => 'required',
            'detail' => 'required',
        ]);

        $product->update($request->all());

        return redirect()->route('products.index')
                        ->with('success','Product updated successfully');
    }

    /**
     * Remove the specified resource from storage.
     *
     * @param  \App\Product  $product
     * @return \Illuminate\Http\Response
     */
    public function destroy(Product $product)
    {
        $product->delete();

        return redirect()->route('products.index')
                        ->with('success','Product deleted successfully');
    }
}
```

app/Http/Controllers/RoleController.php

```
<?php

namespace App\Http\Controllers;

use Illuminate\Http\Request;
use App\Http\Controllers\Controller;
use Spatie\Permission\Models\Role;
use Spatie\Permission\Models\Permission;
use DB;

class RoleController extends Controller
{
    /**
     * Display a listing of the resource.
     *
     * @return \Illuminate\Http\Response

     */

    function __construct()

    {

         $this->middleware('permission:role-list|role-
create|role-edit|role-delete', ['only' =>
['index','store']]);

         $this->middleware('permission:role-create',
['only' => ['create','store']]);

         $this->middleware('permission:role-edit',
['only' => ['edit','update']]);

         $this->middleware('permission:role-delete',
['only' => ['destroy']]);

    }



    /**

     * Display a listing of the resource.

     *

     * @return \Illuminate\Http\Response

     */

    public function index(Request $request)

    {

        $roles = Role::orderBy('id','DESC')-
>paginate(5);

        return view('roles.index',compact('roles'))

            ->with('i', ($request->input('page', 1) -
1) * 5);
```

```
    }


    /**
     * Show the form for creating a new resource.
     *
     * @return \Illuminate\Http\Response
     */
    public function create()
    {
        $permission = Permission::get();
        return
view('roles.create',compact('permission'));
    }


    /**
     * Store a newly created resource in storage.
     *
     * @param  \Illuminate\Http\Request  $request
     * @return \Illuminate\Http\Response
     */
    public function store(Request $request)
    {
        $this->validate($request, [
            'name' => 'required|unique:roles,name',
            'permission' => 'required',
        ]);

        $role = Role::create(['name' => $request-
>input('name')]);
        $role->syncPermissions($request-
>input('permission'));

        return redirect()->route('roles.index')
                        ->with('success','Role created
successfully');
    }
    /**
     * Display the specified resource.
     *
     * @param  int  $id
     * @return \Illuminate\Http\Response
     */
    public function show($id)
    {
        $role = Role::find($id);
        $rolePermissions =
Permission::join("role_has_permissions","role_has_permi
ssions.permission_id","=","permissions.id")
            ->where("role_has_permissions.role_id",$id)
            ->get();
        return
view('roles.show',compact('role','rolePermissions'));

    }



    /**

     * Show the form for editing the specified
resource.

     *

     * @param  int  $id

     * @return \Illuminate\Http\Response

     */

    public function edit($id)

    {

        $role = Role::find($id);

        $permission = Permission::get();

        $rolePermissions =
DB::table("role_has_permissions")-
>where("role_has_permissions.role_id",$id)

            -
>pluck('role_has_permissions.permission_id','role_has_p
ermissions.permission_id')

            ->all();



        return
view('roles.edit',compact('role','permission','rolePerm
issions'));

    }
    /**
     * Update the specified resource in storage.
     *
     * @param  \Illuminate\Http\Request  $request
     * @param  int  $id
     * @return \Illuminate\Http\Response
     */
    public function update(Request $request, $id)
    {
        $this->validate($request, [
            'name' => 'required',
            'permission' => 'required',
        ]);


        $role = Role::find($id);
        $role->name = $request->input('name');
        $role->save();


        $role->syncPermissions($request-
>input('permission'));


        return redirect()->route('roles.index')
                        ->with('success','Role updated
successfully');
```

```
    }

    /**
     * Remove the specified resource from storage.
     *
     * @param  int  $id
     * @return \Illuminate\Http\Response
     */
    public function destroy($id)
    {
        DB::table("roles")->where('id',$id)->delete();
        return redirect()->route('roles.index')
                        ->with('success','Role deleted
successfully');
    }
}
```

Step 9: Add Blade Files

In this step, we need to create following files as like listed bellow:

Theme Layout

app.blade.php

Users Module

index.blade.php create.blade.php edit.blade.php show.blade.php

Roles Module

index.blade.php create.blade.php edit.blade.php show.blade.php

Product Module

index.blade.php create.blade.php edit.blade.php show.blade.php

So, let's create following files:

resources/views/layouts/app.blade.php

```
<html lang="{{ app()->getLocale() }}">

<head>

    <meta charset="utf-8">

    <meta http-equiv="X-UA-Compatible"
content="IE=edge">

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

    <!-- CSRF Token -->

    <meta name="csrf-token" content="{{ csrf_token()
}}">

    <title>{{ config('app.name', 'Laravel 8 User Roles
and Permissions Tutorial') }}</title>

    <!-- Scripts -->

    <script src="{{ asset('js/app.js') }}"
defer></script>

    <!-- Fonts -->

    <link rel="dns-prefetch"
href="https://fonts.gstatic.com">

    <link
href="https://fonts.googleapis.com/css?family=Raleway:3
00,400,600" rel="stylesheet" type="text/css">

    <!-- Styles -->

    <link href="{{ asset('css/app.css') }}"
rel="stylesheet">

</head>
```

```
<body>

    <div id="app">

        <nav class="navbar navbar-expand-md navbar-light navbar-laravel">

            <div class="container">

                <a class="navbar-brand" href="{{ url('/') }}">

                    Laravel 8 User Roles and Permissions - ItSolutionStuff.com

                </a>

                <button class="navbar-toggler" type="button" data-toggle="collapse" data-target="#navbarSupportedContent" aria-controls="navbarSupportedContent" aria-expanded="false" aria-label="Toggle navigation">

                    <span class="navbar-toggler-icon"></span>

                </button>



                <div class="collapse navbar-collapse" id="navbarSupportedContent">

                    <!-- Left Side Of Navbar -->

                    <ul class="navbar-nav mr-auto"></ul>



                    <!-- Right Side Of Navbar -->

                    <ul class="navbar-nav ml-auto">

                        <!-- Authentication Links -->

                        @guest
```

```
                            <li><a class="nav-link"
href="{{ route('login') }}">{{ __('Login') }}</a></li>

                            <li><a class="nav-link"
href="{{ route('register') }}">{{ __('Register')
}}</a></li>

                        @else

                            <li><a class="nav-link"
href="{{ route('users.index') }}">Manage Users</a></li>

                            <li><a class="nav-link"
href="{{ route('roles.index') }}">Manage Role</a></li>

                            <li><a class="nav-link"
href="{{ route('products.index') }}">Manage
Product</a></li>

                            <li class="nav-item
dropdown">

                                <a id="navbarDropdown"
class="nav-link dropdown-toggle" href="#" role="button"
data-toggle="dropdown" aria-haspopup="true" aria-
expanded="false" v-pre>

                                    {{ Auth::user()-
>name }} <span class="caret"></span>

                                </a>



                                <div class="dropdown-
menu" aria-labelledby="navbarDropdown">

                                    <a class="dropdown-
item" href="{{ route('logout') }}"


onclick="event.preventDefault();


document.getElementById('logout-form').submit();">
```

```
                                        {{ __('Logout') }}
                                    </a>


                                    <form id="logout-form" action="{{ route('logout') }}" method="POST" style="display: none;">
                                        @csrf
                                    </form>
                                </div>
                            </li>
                        @endguest
                    </ul>
                </div>
            </div>
        </nav>

        <main class="py-4">
            <div class="container">
            @yield('content')
            </div>
        </main>
    </div>
</body>
</html>
```

resources/views/users/index.blade.php

```
@extends('layouts.app')


@section('content')
<div class="row">
    <div class="col-lg-12 margin-tb">
        <div class="pull-left">
            <h2>Users Management</h2>
        </div>
        <div class="pull-right">
            <a class="btn btn-success" href="{{ route('users.create') }}"> Create New User</a>
        </div>
    </div>
</div>


@if ($message = Session::get('success'))
<div class="alert alert-success">
  <p>{{ $message }}</p>
</div>
@endif


<table class="table table-bordered">
 <tr>
```

```
   <th>No</th>

   <th>Name</th>

   <th>Email</th>

   <th>Roles</th>

   <th width="280px">Action</th>

 </tr>

 @foreach ($data as $key => $user)

  <tr>

    <td>{{ ++$i }}</td>

    <td>{{ $user->name }}</td>

    <td>{{ $user->email }}</td>

    <td>

      @if(!empty($user->getRoleNames()))

        @foreach($user->getRoleNames() as $v)

           <label class="badge badge-success">{{ $v
}}</label>

        @endforeach

      @endif

    </td>

    <td>

       <a class="btn btn-info" href="{{
route('users.show',$user->id) }}">Show</a>

       <a class="btn btn-primary" href="{{
route('users.edit',$user->id) }}">Edit</a>
```

```
        {!! Form::open(['method' => 'DELETE','route' => ['users.destroy', $user->id],'style'=>'display:inline']) !!}

            {!! Form::submit('Delete', ['class' => 'btn btn-danger']) !!}

        {!! Form::close() !!}

    </td>

  </tr>

 @endforeach

</table>



{!! $data->render() !!}



<p class="text-center text-primary"><small>Tutorial by ItSolutionStuff.com</small></p>

@endsection
```

resources/views/users/create.blade.php

```
@extends('layouts.app')



@section('content')

<div class="row">

    <div class="col-lg-12 margin-tb">

        <div class="pull-left">

            <h2>Create New User</h2>

        </div>
        <div class="pull-right">
            <a class="btn btn-primary" href="{{
route('users.index') }}"> Back</a>
        </div>
    </div>
</div>


@if (count($errors) > 0)
  <div class="alert alert-danger">
    <strong>Whoops!</strong> There were some problems
with your input.<br><br>
    <ul>
       @foreach ($errors->all() as $error)
         <li>{{ $error }}</li>
       @endforeach
    </ul>
  </div>
@endif



{!! Form::open(array('route' =>
'users.store','method'=>'POST')) !!}
<div class="row">
    <div class="col-xs-12 col-sm-12 col-md-12">
        <div class="form-group">
            <strong>Name:</strong>
            {!! Form::text('name', null,
array('placeholder' => 'Name','class' => 'form-
control')) !!}

        </div>

    </div>

    <div class="col-xs-12 col-sm-12 col-md-12">

        <div class="form-group">

            <strong>Email:</strong>

            {!! Form::text('email', null,
array('placeholder' => 'Email','class' => 'form-
control')) !!}

        </div>

    </div>

    <div class="col-xs-12 col-sm-12 col-md-12">

        <div class="form-group">

            <strong>Password:</strong>

            {!! Form::password('password',
array('placeholder' => 'Password','class' => 'form-
control')) !!}

        </div>

    </div>

    <div class="col-xs-12 col-sm-12 col-md-12">

        <div class="form-group">

            <strong>Confirm Password:</strong>

            {!! Form::password('confirm-password',
array('placeholder' => 'Confirm Password','class' =>
'form-control')) !!}

        </div>
    </div>

    <div class="col-xs-12 col-sm-12 col-md-12">

        <div class="form-group">

            <strong>Role:</strong>

            {!! Form::select('roles[]', $roles,[], array('class' => 'form-control','multiple')) !!}

        </div>

    </div>

    <div class="col-xs-12 col-sm-12 col-md-12 text-center">

        <button type="submit" class="btn btn-primary">Submit</button>

    </div>

</div>

{!! Form::close() !!}



<p class="text-center text-primary"><small>Tutorial by ItSolutionStuff.com</small></p>

@endsection
```

resources/views/users/edit.blade.php

```
@extends('layouts.app')



@section('content')

<div class="row">

    <div class="col-lg-12 margin-tb">
```

```
        <div class="pull-left">

            <h2>Edit New User</h2>

        </div>

        <div class="pull-right">

            <a class="btn btn-primary" href="{{ route('users.index') }}"> Back</a>

        </div>

    </div>

</div>



@if (count($errors) > 0)

  <div class="alert alert-danger">

    <strong>Whoops!</strong> There were some problems with your input.<br><br>

    <ul>

       @foreach ($errors->all() as $error)

         <li>{{ $error }}</li>

       @endforeach

    </ul>

  </div>

@endif



{!! Form::model($user, ['method' => 'PATCH','route' => ['users.update', $user->id]]) !!}

<div class="row">
```

```
    <div class="col-xs-12 col-sm-12 col-md-12">

        <div class="form-group">

            <strong>Name:</strong>

            {!! Form::text('name', null, array('placeholder' => 'Name','class' => 'form-control')) !!}

        </div>

    </div>

    <div class="col-xs-12 col-sm-12 col-md-12">

        <div class="form-group">

            <strong>Email:</strong>

            {!! Form::text('email', null, array('placeholder' => 'Email','class' => 'form-control')) !!}

        </div>

    </div>

    <div class="col-xs-12 col-sm-12 col-md-12">

        <div class="form-group">

            <strong>Password:</strong>

            {!! Form::password('password', array('placeholder' => 'Password','class' => 'form-control')) !!}

        </div>

    </div>

    <div class="col-xs-12 col-sm-12 col-md-12">

        <div class="form-group">

            <strong>Confirm Password:</strong>
            {!! Form::password('confirm-password', array('placeholder' => 'Confirm Password','class' => 'form-control')) !!}

        </div>

    </div>

    <div class="col-xs-12 col-sm-12 col-md-12">

        <div class="form-group">

            <strong>Role:</strong>

            {!! Form::select('roles[]', $roles,$userRole, array('class' => 'form-control','multiple')) !!}

        </div>

    </div>

    <div class="col-xs-12 col-sm-12 col-md-12 text-center">

        <button type="submit" class="btn btn-primary">Submit</button>

    </div>

</div>

{!! Form::close() !!}



<p class="text-center text-primary"><small>Tutorial by ItSolutionStuff.com</small></p>

@endsection
```

resources/views/users/show.blade.php

```
@extends('layouts.app')
```

```
@section('content')

<div class="row">

    <div class="col-lg-12 margin-tb">

        <div class="pull-left">

            <h2> Show User</h2>

        </div>

        <div class="pull-right">

            <a class="btn btn-primary" href="{{ route('users.index') }}"> Back</a>

        </div>

    </div>

</div>


<div class="row">

    <div class="col-xs-12 col-sm-12 col-md-12">

        <div class="form-group">

            <strong>Name:</strong>

            {{ $user->name }}

        </div>

    </div>

    <div class="col-xs-12 col-sm-12 col-md-12">

        <div class="form-group">

            <strong>Email:</strong>

            {{ $user->email }}
        </div>
    </div>
    <div class="col-xs-12 col-sm-12 col-md-12">
        <div class="form-group">
            <strong>Roles:</strong>
            @if(!empty($user->getRoleNames()))
                @foreach($user->getRoleNames() as $v)
                    <label class="badge badge-success">{{ $v }}</label>
                @endforeach
            @endif
        </div>
    </div>
</div>
@endsection
```

resources/views/roles/index.blade.php

```
@extends('layouts.app')


@section('content')
<div class="row">
    <div class="col-lg-12 margin-tb">
        <div class="pull-left">
            <h2>Role Management</h2>
        </div>
        <div class="pull-right">
        @can('role-create')
            <a class="btn btn-success" href="{{ route('roles.create') }}"> Create New Role</a>
            @endcan
        </div>
    </div>
</div>


@if ($message = Session::get('success'))
    <div class="alert alert-success">
        <p>{{ $message }}</p>
    </div>
@endif


<table class="table table-bordered">
  <tr>
     <th>No</th>
     <th>Name</th>
     <th width="280px">Action</th>
  </tr>
    @foreach ($roles as $key => $role)
    <tr>
        <td>{{ ++$i }}</td>
        <td>{{ $role->name }}</td>

        <td>

            <a class="btn btn-info" href="{{
route('roles.show',$role->id) }}">Show</a>

            @can('role-edit')

                <a class="btn btn-primary" href="{{
route('roles.edit',$role->id) }}">Edit</a>

            @endcan

            @can('role-delete')

                {!! Form::open(['method' =>
'DELETE','route' => ['roles.destroy', $role-
>id],'style'=>'display:inline']) !!}

                    {!! Form::submit('Delete', ['class'
=> 'btn btn-danger']) !!}

                {!! Form::close() !!}

            @endcan

        </td>

    </tr>

    @endforeach

</table>



{!! $roles->render() !!}



<p class="text-center text-primary"><small>Tutorial by
ItSolutionStuff.com</small></p>

@endsection
```

resources/views/roles/create.blade.php

```
@extends('layouts.app')


@section('content')
<div class="row">
    <div class="col-lg-12 margin-tb">
        <div class="pull-left">
            <h2>Create New Role</h2>
        </div>
        <div class="pull-right">
            <a class="btn btn-primary" href="{{ route('roles.index') }}"> Back</a>
        </div>
    </div>
</div>


@if (count($errors) > 0)
    <div class="alert alert-danger">
        <strong>Whoops!</strong> There were some problems with your input.<br><br>
        <ul>
        @foreach ($errors->all() as $error)
            <li>{{ $error }}</li>
        @endforeach
        </ul>
    </div>

@endif



{!! Form::open(array('route' =>
'roles.store','method'=>'POST')) !!}

<div class="row">

    <div class="col-xs-12 col-sm-12 col-md-12">

        <div class="form-group">

            <strong>Name:</strong>

            {!! Form::text('name', null,
array('placeholder' => 'Name','class' => 'form-
control')) !!}

        </div>

    </div>

    <div class="col-xs-12 col-sm-12 col-md-12">

        <div class="form-group">

            <strong>Permission:</strong>

            <br/>

            @foreach($permission as $value)

                <label>{{
Form::checkbox('permission[]', $value->id, false,
array('class' => 'name')) }}

                {{ $value->name }}</label>

            <br/>

            @endforeach

        </div>
    </div>
    <div class="col-xs-12 col-sm-12 col-md-12 text-center">
        <button type="submit" class="btn btn-primary">Submit</button>
    </div>
</div>
{!! Form::close() !!}

<p class="text-center text-primary"><small>Tutorial by ItSolutionStuff.com</small></p>
@endsection
```

resources/views/roles/edit.blade.php

```
@extends('layouts.app')

@section('content')
<div class="row">
    <div class="col-lg-12 margin-tb">
        <div class="pull-left">
            <h2>Edit Role</h2>
        </div>
        <div class="pull-right">
            <a class="btn btn-primary" href="{{ route('roles.index') }}"> Back</a>
        </div>
    </div>

</div>



@if (count($errors) > 0)

    <div class="alert alert-danger">

        <strong>Whoops!</strong> There were some problems with your input.<br><br>

        <ul>

        @foreach ($errors->all() as $error)

            <li>{{ $error }}</li>

        @endforeach

        </ul>

    </div>

@endif



{!! Form::model($role, ['method' => 'PATCH','route' => ['roles.update', $role->id]]) !!}

<div class="row">

    <div class="col-xs-12 col-sm-12 col-md-12">

        <div class="form-group">

            <strong>Name:</strong>

            {!! Form::text('name', null, array('placeholder' => 'Name','class' => 'form-control')) !!}

        </div>

    </div>
    <div class="col-xs-12 col-sm-12 col-md-12">

        <div class="form-group">

            <strong>Permission:</strong>

            <br/>

            @foreach($permission as $value)

                <label>{{
Form::checkbox('permission[]', $value->id,
in_array($value->id, $rolePermissions) ? true : false,
array('class' => 'name')) }}

                {{ $value->name }}</label>

            <br/>

            @endforeach

        </div>

    </div>

    <div class="col-xs-12 col-sm-12 col-md-12 text-
center">

        <button type="submit" class="btn btn-
primary">Submit</button>

    </div>

</div>

{!! Form::close() !!}



@endsection

<p class="text-center text-primary"><small>Tutorial by
ItSolutionStuff.com</small></p>
```

resources/views/roles/show.blade.php

```
@extends('layouts.app')


@section('content')
<div class="row">
    <div class="col-lg-12 margin-tb">
        <div class="pull-left">
            <h2> Show Role</h2>
        </div>
        <div class="pull-right">
            <a class="btn btn-primary" href="{{ route('roles.index') }}"> Back</a>
        </div>
    </div>
</div>


<div class="row">
    <div class="col-xs-12 col-sm-12 col-md-12">
        <div class="form-group">
            <strong>Name:</strong>
            {{ $role->name }}
        </div>
    </div>
    <div class="col-xs-12 col-sm-12 col-md-12">
        <div class="form-group">
```

```
            <strong>Permissions:</strong>
            @if(!empty($rolePermissions))
                @foreach($rolePermissions as $v)
                    <label class="label label-success">{{ $v->name }},</label>
                @endforeach
            @endif
        </div>
    </div>
</div>
@endsection
```

resources/views/products/index.blade.php

```
@extends('layouts.app')

@section('content')
    <div class="row">
        <div class="col-lg-12 margin-tb">
            <div class="pull-left">
                <h2>Products</h2>
            </div>
            <div class="pull-right">
                @can('product-create')
                <a class="btn btn-success" href="{{ route('products.create') }}"> Create New Product</a>
                @endcan

            </div>

        </div>

    </div>


    @if ($message = Session::get('success'))

        <div class="alert alert-success">

            <p>{{ $message }}</p>

        </div>

    @endif


    <table class="table table-bordered">

        <tr>

            <th>No</th>

            <th>Name</th>

            <th>Details</th>

            <th width="280px">Action</th>

        </tr>

          @foreach ($products as $product)

          <tr>

              <td>{{ ++$i }}</td>

              <td>{{ $product->name }}</td>

              <td>{{ $product->detail }}</td>

              <td>
```

```
                <form action="{{ route('products.destroy',$product->id) }}" method="POST">

                    <a class="btn btn-info" href="{{ route('products.show',$product->id) }}">Show</a>

                    @can('product-edit')

                    <a class="btn btn-primary" href="{{ route('products.edit',$product->id) }}">Edit</a>

                    @endcan



                    @csrf

                    @method('DELETE')

                    @can('product-delete')

                    <button type="submit" class="btn btn-danger">Delete</button>

                    @endcan

                </form>

              </td>

          </tr>

          @endforeach

    </table>



    {!! $products->links() !!}



<p class="text-center text-primary"><small>Tutorial by ItSolutionStuff.com</small></p>

@endsection
```

resources/views/products/create.blade.php

```
@extends('layouts.app')


@section('content')
    <div class="row">
        <div class="col-lg-12 margin-tb">
            <div class="pull-left">
                <h2>Add New Product</h2>
            </div>
            <div class="pull-right">
                <a class="btn btn-primary" href="{{ route('products.index') }}"> Back</a>
            </div>
        </div>
    </div>


    @if ($errors->any())
        <div class="alert alert-danger">
            <strong>Whoops!</strong> There were some problems with your input.<br><br>
            <ul>
                @foreach ($errors->all() as $error)
                    <li>{{ $error }}</li>
                @endforeach
            </ul>
        </div>
    @endif


    <form action="{{ route('products.store') }}" method="POST">
      @csrf


         <div class="row">
               <div class="col-xs-12 col-sm-12 col-md-12">
                   <div class="form-group">
                       <strong>Name:</strong>
                       <input type="text" name="name" class="form-control" placeholder="Name">
                   </div>
               </div>
               <div class="col-xs-12 col-sm-12 col-md-12">
                   <div class="form-group">
                       <strong>Detail:</strong>
                       <textarea class="form-control" style="height:150px" name="detail" placeholder="Detail"></textarea>
                   </div>
               </div>
               <div class="col-xs-12 col-sm-12 col-md-12 text-center">
```

```
                        <button type="submit" class="btn btn-primary">Submit</button>

                </div>

            </div>



    </form>



<p class="text-center text-primary"><small>Tutorial by ItSolutionStuff.com</small></p>

@endsection
```

resources/views/products/edit.blade.php

```
@extends('layouts.app')



@section('content')

    <div class="row">

        <div class="col-lg-12 margin-tb">

            <div class="pull-left">

                <h2>Edit Product</h2>

            </div>

            <div class="pull-right">

                <a class="btn btn-primary" href="{{ route('products.index') }}"> Back</a>

            </div>

        </div>

    </div>
    @if ($errors->any())
        <div class="alert alert-danger">
            <strong>Whoops!</strong> There were some problems with your input.<br><br>
            <ul>
                @foreach ($errors->all() as $error)
                    <li>{{ $error }}</li>
                @endforeach
            </ul>
        </div>
    @endif


    <form action="{{ route('products.update',$product->id) }}" method="POST">
      @csrf
        @method('PUT')


         <div class="row">
               <div class="col-xs-12 col-sm-12 col-md-12">
                   <div class="form-group">
                       <strong>Name:</strong>
                       <input type="text" name="name" value="{{ $product->name }}" class="form-control" placeholder="Name">
                    </div>

                </div>

                <div class="col-xs-12 col-sm-12 col-md-
12">

                    <div class="form-group">

                        <strong>Detail:</strong>

                        <textarea class="form-control"
style="height:150px" name="detail"
placeholder="Detail">{{ $product->detail }}</textarea>

                    </div>

                </div>

                <div class="col-xs-12 col-sm-12 col-md-
12 text-center">

                  <button type="submit" class="btn btn-
primary">Submit</button>

                </div>

            </div>



    </form>



<p class="text-center text-primary"><small>Tutorial by
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@endsection
```

resources/views/products/show.blade.php

```
@extends('layouts.app')
```

```
@section('content')
    <div class="row">
        <div class="col-lg-12 margin-tb">
            <div class="pull-left">
                <h2> Show Product</h2>
            </div>
            <div class="pull-right">
                <a class="btn btn-primary" href="{{ route('products.index') }}"> Back</a>
            </div>
        </div>
    </div>

    <div class="row">
        <div class="col-xs-12 col-sm-12 col-md-12">
            <div class="form-group">
                <strong>Name:</strong>
                {{ $product->name }}
            </div>
        </div>
        <div class="col-xs-12 col-sm-12 col-md-12">
            <div class="form-group">
                <strong>Details:</strong>
                {{ $product->detail }}
            </div>

        </div>

    </div>

@endsection

<p class="text-center text-primary"><small>Tutorial by
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```

Step 10: Create Seeder For Permissions and AdminUser

In this step we will create seeder for permissions, Right now we have fixed permission so we create using seeder as listed bellow, but if you can add more permission as you want:

1.role-list

2.role-create

3.role-edit

4.role-delete

5.product-list

6.product-create

7.product-edit

8.product-delete

So, first create seeder using bellow command:

```
php artisan make:seeder PermissionTableSeeder
```

And put bellow code in PermissionTableSeeder seeder this way:

database/seeds/PermissionTableSeeder.php

```
<?php
```

```
namespace Database\Seeders;


use Illuminate\Database\Seeder;

use Spatie\Permission\Models\Permission;


class PermissionTableSeeder extends Seeder

{

    /**

     * Run the database seeds.

     *

     * @return void

     */

    public function run()

    {

        $permissions = [

            'role-list',

            'role-create',

            'role-edit',

            'role-delete',

            'product-list',

            'product-create',

            'product-edit',

            'product-delete'

        ];


        foreach ($permissions as $permission) {

             Permission::create(['name' =>
$permission]);

        }

    }

}
```

After this we have to run bellow command for run PermissionTableSeeder seeder:

```
php artisan db:seed --class=PermissionTableSeeder
```

Now let's create new seeder for creating admin user.

```
php artisan make:seeder CreateAdminUserSeeder
```

database/seeds/CreateAdminUserSeeder.php

```
<?php



namespace Database\Seeders;



use Illuminate\Database\Seeder;

use App\Models\User;

use Spatie\Permission\Models\Role;

use Spatie\Permission\Models\Permission;



class CreateAdminUserSeeder extends Seeder

{
    /**
     * Run the database seeds.
     *
     * @return void
     */
    public function run()
    {
        $user = User::create([
            'name' => 'Hardik Savani',
            'email' => 'admin@gmail.com',
            'password' => bcrypt('123456')
        ]);

        $role = Role::create(['name' => 'Admin']);

        $permissions = Permission::pluck('id','id')-
>all();

        $role->syncPermissions($permissions);

        $user->assignRole([$role->id]);
    }
}
```

```
php artisan db:seed --class=CreateAdminUserSeeder
```

Now we are ready to to run full example of ACL. so let's run our example so run bellow command for quick run:

```
php artisan serve
```

Access By

```
http://localhost:8000/
```