Hello Guys welcome back,

Here i will take you step by step how to create laravel 8 crud with ajax and datatable, and we will use bootsrap4 modal to preview the contents and pagination to set our table length. so, we will create jquery ajax crud with modal popup using js datatable in laravel 8 new version.

To able to create records and edit them we will be using bootstrap modal to create new records and update new records. We will cover all the 7 features of the resource routes, which are (Index, Create, Read, Update, and Destroy). And the output we will be using the js datatabl to view our data from the database and add the features of on them which are filter and pagination.

This procedure is the same procedure, if you want to create or crud with any version of laravel we can use this step by step tutorial to guide you. So, let’s get started with the step by step as below.

**Step 1: Install New Laravel 8:**

In first step, we will install a fresh new Laravel 8 or any version of Laravel, we need to use this below command to create the a Laravel project to get started. First of all, we need to open our windows command prompt OR any other third-party terminals you are using all is the same procedure. Bellow is the command to past in the terminal and press Enter.

composer create-project --prefer-dist laravel/laravel crud

**Step 2: Install Yajra Datatable:**

In second step, we need to install yajra datatable using composer package for installing the datatable, follow the bellow command to install yajra datatable:

composer **require** yajra/laravel-datatables-oracle

when installation complete, we need to add this below classes in Config/app.php.

**config/app.php.**

'providers' => [

Yajra\DataTables\DataTablesServiceProvider::**class**,

]

'aliases' => [

'DataTables' => Yajra\DataTables\Facades\DataTables::**class**,

]

**Step 3: Database Configuration:**

In third step, we will make database configuration to configure your database name, username, password etc. for this project we will be just using just the database configuration to configure our crud application for Laravel 8. So, let's open .env file and configure the database as the follows:

**.env**

DB\_CONNECTION=mysql

DB\_HOST=127.0.0.1

DB\_PORT=3306

DB\_DATABASE=database name(crud\_application)

DB\_USERNAME=username(root)

DB\_PASSWORD=password(‘’)

**Step 5: Create Resource Route:**

Now we will create the resource route which will have the 7 methods our crud application, and the migration files we will add some fields to it.

php artisan make:modal crud\_application --mrc

**after this command you will have 3 files (modal, migrations and controller). So, the below file is the migration file.**

**Step 6: Configure the Migration File:**

To access the migration file, we need to navigate to "database/migrations" and you have to add the bellow code in your migration file so that we can able to migrate the table.

**/database/migrations/2020\_01\_8\_102229\_create\_crud\_appliactions\_table.php**

<?php

**use** Illuminate\Support\Facades\Schema;

**use** Illuminate\Database\Schema\Blueprint;

**use** Illuminate\Database\Migrations\Migration;

**class** CreateCrudApplicationTable **extends** Migration

{

/\*\*

\* Run the migrations.

\*

\* @return void

\*/

**public** **function** up()

{

Schema::create(crud\_applications, **function** (Blueprint $table) {

$table->bigIncrements('id');

$table->**string**('first\_name');

$table->**string**('last\_name');

$table->**string**('phone');

$table->timestamps();

});

}

/\*\*

\* Reverse the migrations.

\*

\* @return void

\*/

**public** **function** down()

{

Schema::dropIfExists(crud\_applications);

}

}

This file is the route file our crud application, we need to add resource route for application url. so, navigate to your "routes/web.php" file and add the following command that’s our resource route.

**routes/web.php**

<?php

**use** App\Http\Controllers\CrudApplicationController;

// this is the new laravel route the old one is not working for laravel 8

Route::resource('crud\_application', CrudApplicationController::**class**);

**Step 7: Configure the Model File:**

**Now we need to configure our modal so that we can able to do misassigns**

**app/CrudApplication.php**

<?php

**namespace** App\Models;

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

**use** Illuminate\Database\Eloquent\Model;

**class** CrudApplication **extends** Model

{

**protected $**table = ‘crud\_applications’;

**protected** $fillable = [

'first\_name', ‘last\_name’, ‘phone’

];

}

Now let’s run this bellow command to migrate our table into the database:

php artisan migrate

**Step 8: Add Index Blade Files**

So, in this final step. we have to create just a blade file to have include all our html files and script tags so that we can able to create a form to perform our crud operations. And we need to have ajax cnd and bootstrap 4 cnd for our design and jQuery part.

So, let's just create following file and put bellow code.

**resources/views/index.blade.php**

<!DOCTYPE html>

**<html>**

**<head>**

**<title>**Laravel 8 Ajax CRUD Tutorial Using Datatable Bootsrap Modal**</title>**

**<meta** **name**="csrf-token" **content**="{{ csrf\_token() }}"**>**

**<link** **href**="https://cdn.datatables.net/1.10.16/css/jquery.dataTables.min.css" **rel**="stylesheet"**>**

**<link** **rel**="stylesheet" **href**="https://cdnjs.cloudflare.com/ajax/libs/twitter-bootstrap/4.1.3/css/bootstrap.min.css" **/>**

**<script** **src**="https://ajax.googleapis.com/ajax/libs/jquery/1.9.1/jquery.js"**></script>**

**<script** **src**="https://cdnjs.cloudflare.com/ajax/libs/jquery-validate/1.19.0/jquery.validate.js"**></script>**

**<script** **src**="https://cdn.datatables.net/1.10.16/js/jquery.dataTables.min.js"**></script>**

**<script** **src**="https://stackpath.bootstrapcdn.com/bootstrap/4.1.3/js/bootstrap.min.js"**></script>**

**<script** **src**="https://cdn.datatables.net/1.10.19/js/dataTables.bootstrap4.min.js"**></script>**

**<script** **src**="https://cdnjs.cloudflare.com/ajax/libs/bootbox.js/4.4.0/bootbox.min.js"**></script>**

**<link** **href**="https://cdn.datatables.net/1.10.19/css/dataTables.bootstrap4.min.css" **rel**="stylesheet"**>**

**</head>**

**<style** **type**="text/css"**>**

.container{

margin-top:150px;

}

h4{

margin-bottom:30px;

}

**</style>**

**<body>**

**<div** **class**="container"**>**

**<div** **class**="row"**>**

**<div** **class**="col-md-8 offset-md-2"**>**

**<div** **class**="row"**>**

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

**<h4>**Laravel 8 Ajax CRUD Tutorial Using Bootstrap Modal**</h4>**

**</div>**

**<div** **class**="col-md-12 text-right mb-5"**>**

**<a** **class**="btn btn-success" **href**="javascript:void(0)" **id**="addNewUser"**>** Add New User**</a>**

**</div>**

**<div** **class**="col-md-12"**>**

**<table** **class**="table table-bordered data-table"**>**

**<thead>**

**<tr>**

**<th>**#**</th>**

**<th>**First Name**</th>**

**<th>**Last Name**</th>**

**<th>**Phone**</th>**

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

**</tr>**

**</thead>**

**<tbody>**

**</tbody>**

**</table>**

**</div>**

**</div>**

**</div>**

**</div>**

**</div>**

**<div** **class**="modal fade" **id**="ajaxModel" **aria-hidden**="true"**>**

**<div** **class**="modal-dialog"**>**

**<div** **class**="modal-content"**>**

**<div** **class**="modal-header"**>**

**<h4** **class**="modal-title" **id**="modelHeading"**></h4>**

**</div>**

**<div** **class**="modal-body"**>**

**<form** **id**="userForm" **name**="userForm" **class**="form-horizontal"**>**

**<input** **type**="hidden" **name**="user\_id" **id**="user\_id"**>**

**<div** **class**="form-group"**>**

**<label** **for**="name" **class**="col-sm-2 control-label"**>** FirstName**</label>**

**<div** **class**="col-sm-12"**>**

**<input** **type**="text" **class**="form-control" **id**="first\_name" **name**="first\_name" **placeholder**="Enter First Name" **value**="" **maxlength**="50" **required**=""**>**

**<div** **class**="form-group"**>**

**<label** **for**="name" **class**="col-sm-2 control-label"**>** LastName**</label>**

**<div** **class**="col-sm-12"**>**

**<input** **type**="text" **class**="form-control" **id**="last\_name" **name**="last\_name" **placeholder**="Enter Last Name" **value**="" **maxlength**="50" **required**=""**></div>**

**</div>**

**<div** **class**="form-group"**>**

**<label** **class**="col-sm-2 control-label"**>**Phone**</label>**

**<div** **class**="col-sm-12"**>**

**<input type=”text” name=”phone” id=”phone” placeholder=”Enter Phone” class=”form-control”/>**

**</div>**

**</div>**

**<div** **class**="col-sm-offset-2 col-sm-10"**>**

**<button** **type**="submit" **class**="btn btn-info " **id**="Btnsave" **value**="Add"**>**Save user**</button>**

**</div>**

**</form>**

**</div>**

**</div>**

**</div>**

**</div>**

**</body>**

// here is the java scribe code for create, read, update and delete

**<script** **type**="text/javascript"**>**

$(**function** () {

$.ajaxSetup({

headers: {

'X-CSRF-TOKEN': $('meta[name="csrf-token"]').attr('content')

}

});

**var** table = $('.data-table').DataTable({

processing: **true**,

serverSide: **true**,

ajax: "{{ route('crud\_application.index') }}",

columns: [

{data: 'DT\_RowIndex', name: 'DT\_RowIndex'},

{data: 'first\_name', name: 'first\_name'},

{data: 'last\_name', name: 'last\_name'},

{data: 'phone', name: 'phone'},

{data: 'action', name: 'action', orderable: **false**, searchable: **false**},

]

});

$('#addNewUser').click(**function** () {

$('#Btnsave').val("add-user");

$('#user\_id').val('');

$('#userForm').trigger("reset");

$('#modelHeading').html("Add New User");

$('#ajaxModel').modal('show');

});

$('body').on('click', '.edituser', **function** () {

**var** user\_id = $(**this**).data('id');

$.**get**("{{ route('crud\_application.index') }}" +'/' + user\_id +'/edit', **f unction** (data) {

$('#modelHeading').html("Edit User");

$('#Btnsave').val("edit-user");

$('#ajaxModel').modal('show');

$('#user\_id').val(data.id);

$('#first\_name').val(data.first\_name);

$('#last\_name').val(data.first\_name);

$('#phone').val(data.phone);

})

});

$('#Btnsave').click(**function** (e) {

e.preventDefault();

$(**this**).html('Sending..');

$.ajax({

data: $('#userForm').serialize(),

url: "{{route('crud\_application.store') }}",

type: "POST",

dataType: 'json',

success: **function** (data) {

$('#userForm').trigger("reset");

$('#ajaxModel').modal('hide');

table.draw();

},

error: **function** (data) {

console.log('Error:', data);

$('#saveBtn').html('Save Data');

}

});

});

$('body').on('click', '.deleteUser', **function** (){

**var** user\_id = $(**this**).data("id");

**var** result = confirm("Are You sure want to delete !");

**if**(result){

$.ajax({

type: "DELETE",

url: "{{ route('ajaxproducts.store') }}"+'/'+user\_id,

success: **function** (data) {

table.draw();

},

error: **function** (data) {

console.log('Error:', data);

}

});

}**else**{

**return** **false**;

}

});

});

**</script>**

**</html>**

Okay: Now let run this command to see our project:

php artisan serve

Now open your browser and past the bellow code to insert new user into the database:

http://localhost:8000/ajaxproducts

Thank you:

I hope this will help and if you have any question comment in the comment section bellow to receive answers thank you once again…….