**Ecommerce Notes for Students**

1. **Categories Migrations and CRUD**

Here we will be working on creating categories for our ecommerce project

php artisan make:model Category –m

php artisan make:controller CategoryController

|  |
| --- |
| **create\_categories.table.php** |
| Schema::*create*(**'categories'**, **function** (Blueprint $table) {  $table->increments(**'id'**);  $table->integer(**'parent\_id'**);  $table->string(**'name'**);  $table->text(**'description'**);  $table->string(**'slug'**);  $table->tinyInteger(**'status'**);  $table->timestamps(); }); |

php artisan migrate

Now we will be creating route for adding our categories

|  |
| --- |
| **web.php** |
| Route::*match*([**'get'**, **'post'**], **'/admin/add-category'**, **'CategoryController@addCategory'**)->name(**'category.add'**); |
| **CategoryController.php** |
| public function addCategory(){  return view ('admin.categories.add\_category'); } |

Now create a new folder and files: **admin/categories/add\_category.blade.php**

|  |
| --- |
| **add\_category.blade.php** |
| @extends('admin.adminLayouts.admin\_design') @section('content')  @endsection |

Now in sidebar we will add our routes

|  |
| --- |
| **sidebar.blade.php** |
| <**li class="sidebar-item"**>  <**a class="sidebar-link waves-effect waves-dark sidebar-link" href="**{{route(**'admin.dashboard'**)}}**" aria-expanded="false"**>  <**i class="fas fa-tachometer-alt"**></**i**>  <**span class="hide-menu"**>Dashboard</**span**>  </**a**> </**li**>  <**li class="sidebar-item"**>  <**a class="sidebar-link has-arrow waves-effect waves-dark" href="javascript:void(0)" aria-expanded="false"**>  <**i class="fas fa-filter"**></**i**>  <**span class="hide-menu"**>Categories </**span**>  </**a**>  <**ul aria-expanded="false" class="collapse first-level"**>  <**li class="sidebar-item"**>  <**a href="**{{route(**'category.add'**)}}**" class="sidebar-link"**>  <**i class="icon-Record"**></**i**>  <**span class="hide-menu"**> Add Category</**span**>  </**a**>  </**li**>  <**li class="sidebar-item"**>  <**a href="" class="sidebar-link"**>  <**i class="icon-Record"**></**i**>  <**span class="hide-menu"**> View Categories </**span**>  </**a**>  </**li**>   </**ul**> </**li**> |

Now we will be creating a form in our add\_category.blade.php

|  |
| --- |
| **@extends('admin.adminLayouts.admin\_design')  @section('content')** <**div class="page-breadcrumb"**>  <**div class="row"**>  <**div class="col-5 align-self-center"**>  <**h4 class="page-title"**>Categories</**h4**>  <**div class="d-flex align-items-center"**>   </**div**>  </**div**>  <**div class="col-7 align-self-center"**>  <**div class="d-flex no-block justify-content-end align-items-center"**>  <**nav aria-label="breadcrumb"**>  <**ol class="breadcrumb"**>  <**li class="breadcrumb-item"**>  <**a href="**{{route(**'admin.dashboard'**)}}**"**>Home</**a**>  </**li**>  <**li class="breadcrumb-item active" aria-current="page"**>Categories</**li**>  </**ol**>  </**nav**>  </**div**>  </**div**>  </**div**>  </**div**>   <**div class="container-fluid"**>   <**div class="row"**>  <**div class="col-sm-12"**>  <**div class="card"**>  <**div class="card-body"**>  <**h4 class="card-title"**>Add a New Category</**h4**>  <**form class="form" method="post" action="**{{route(**'category.add'**)}}**" id="add\_category" name="add\_category"**>  **@csrf** <**div class="form-group m-t-40 row"**>  <**label for="name" class="col-2 col-form-label"**>Category Name</**label**>  <**div class="col-10"**>  <**input class="form-control" type="text" name="name" id="name" placeholder="Please Enter Category Name"**>  </**div**>  </**div**>   <**div class="form-group row"**>  <**label for="" class="col-2 col-form-label"**>Category Level</**label**>  <**div class="col-10"**>  <**select class="custom-select col-12" name="parent\_id" id="parent\_id"**>  <**option value="0"**>Main Category</**option**>  </**select**>  </**div**>  </**div**>   <**div class="form-group m-t-40 row"**>  <**label for="description" class="col-2 col-form-label"**>Description</**label**>  <**div class="col-10"**>  <**textarea name="description" id="description" cols="30" rows="10" class="form-control col-12"**></**textarea**>  </**div**>  </**div**>   <**div class="form-group m-t-40 row"**>  <**div class="col-10"**>  <**div class="custom-control custom-checkbox mr-sm-2"**>  <**input type="checkbox" class="custom-control-input" id="status" name="status"**>  <**label class="custom-control-label" for="status"**>Status</**label**>  </**div**>  </**div**>  </**div**>   <**div class="form-group row"**>  <**div class="text-center"**>  <**input type="submit" name="submit" class="btn btn-primary" value="Insert Category"**>  </**div**>  </**div**>  </**form**>  </**div**>  </**div**>  </**div**>  </**div**>  </**div**>  **@endsection** |

Now we will be creating a validation for our products

|  |
| --- |
| **add\_category.blade.php** |
| **@section('script')** <**script src="https://cdnjs.cloudflare.com/ajax/libs/jquery-validate/1.16.0/jquery.validate.js?fbclid=IwAR0gve14W2V8EXN6DR0mdbmJ6\_pcNkxyRRcUjMPer\_eKY7pwwSj8E-WcaKM"**> </**script**>  <**script type="text/javascript"**>  *$*(***document***).ready(**function** () {  *$*(**"#add\_category"**).validate({  **rules**: {  **name**: {  **required**: **true** },  **description**: {  **required**: **true** },   } ,  **messages** : {  **name**: {  **required**: **"<span class='text-danger'> Please Enter Category Name </span>"** },  **description**: {  **required** : **"<span class='text-danger'> Please Insert Description </span>"** },    }  });  });   </**script**>  **@endsection** |

Now storing the value

|  |
| --- |
| **CategoryController.php** |
| **public function** addCategory(Request $request){  **if**($request->isMethod(**'post'**)){  $data = $request->all();  $category = **new** Category;  $category->**name** = *ucwords*(*strtolower*($data[**'name'**]));  $category->**description** = $data[**'description'**];  $category->**slug** = str\_slug($data[**'name'**]);  **if**($request->**status** = **"checked"**){  $category->**status** = **"1"**;  } **else** {  $category->**status** = **"0"**;  }  $category->**parent\_id** = $data[**'parent\_id'**];  $category->save();  **return** redirect()->back();  }  **return** view (**'admin.categories.add\_category'**); } |

Now we will be displaying categories in datatables

|  |
| --- |
| **web.php** |
| Route::*get*(**'/admin/view-categories'**, **'CategoryController@viewCategories'**)->name(**'category.view'**); |

|  |
| --- |
| **CategoryController.php** |
| **public function** viewCategories(){  $categories = Category::*latest*()->get();  **return** view (**'admin.categories.view\_categories'**, *compact*(**'categories'**)); } |

Create a new blade file inside categories folder and name it **view\_categories.blade.php**

|  |
| --- |
| **view\_cstegories.blade.php** |
| **@extends('admin.adminLayouts.admin\_design') @section('content')  @endsection** |

**Now update sidebar**

<**li class="sidebar-item"**>  
 <**a href="**{{route(**'category.view'**)}}**" class="sidebar-link"**>  
 <**i class="icon-Record"**></**i**>  
 <**span class="hide-menu"**> View Categories </**span**>  
 </**a**>  
</**li**>

**Now we will be working on our view categories page we will the code form datatables html file and customize**

|  |
| --- |
| **@foreach(**$categories **as** $category**)** <**tr**>  <**td**>{{$loop->**index** +1}}</**td**>  <**td**>{{$category->**name**}}</**td**>  <**td**>{{$category->**parent\_id**}}</**td**>  <**td**>  {{str\_limit($category->**description**, 40, **'[...]'**)}}  </**td**>  <**td**>{{$category->**slug**}}</**td**>  <**td**>  **@if(**$category->**status** == 1**)** <**span class="badge badge-success"**>Active</**span**>  **@else** <**span class="badge badge-warning"**>Inctive</**span**>  **@endif** </**td**>  <**td**>  <**a href="#" class="btn btn-info"**>  <**i class="fa fa-edit"**></**i**>  </**a**>  <**a href="#" class="btn btn-danger"**>  <**i class="fa fa-trash"**></**i**>  </**a**>  </**td**>  </**tr**>  **@endforeach** |

**\*\*\* Note: Do not forget to import css and js files too**

**Now we will be using toastr js for our flash messages**

**We will get the css and js for the toastr js**

header.blade.php

<**link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/toastr.js/latest/toastr.css"**>

**scripts.blade.php**

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

|  |
| --- |
| **CategoryController.php** |
| **public function** addCategory(Request $request){  **if**($request->isMethod(**'post'**)){  $data = $request->all();  $category = **new** Category;  $category->**name** = *ucwords*(*strtolower*($data[**'name'**]));  $category->**description** = $data[**'description'**];  $category->**slug** = str\_slug($data[**'name'**]);  **if**($request->**status** = **"checked"**){  $category->**status** = **"1"**;  } **else** {  $category->**status** = **"0"**;  }  $category->**parent\_id** = $data[**'parent\_id'**];  $category->save();  below code is only added  Session::*flash*(**'success'**, **'Category Has Been Inserted Successfully'**);  **return** redirect()->route(**'category.view'**);  till here changes  }  **return** view (**'admin.categories.add\_category'**); } |

Now

|  |
| --- |
| **view\_categories.blade.php** |
| <**script**>  **@if(**Session::*has*(**'success'**)**)  toastr**.success(**'**{{Session::*get*(**'success'**)}}**'**)  **@endif** </**script**> |

Now we will be editing and updating our category

|  |
| --- |
| **web.php** |
| Route::*match*([**'get'**, **'post'**], **'/admin/edit-category/{id}'**, **'CategoryController@editCategory'**)->name(**'category.edit'**); |

|  |
| --- |
| **CategoryController.php** |
| **public function** editCategory(Request $request, $id = **null**){  $category = Category::*where*([**'id'** => $id])->first();  **return** view (**'admin.categories.edit\_category'**)->with(*compact*(**'category'**)); } |

For edit category page we will copy add page and we will be customizing it

|  |
| --- |
| **edit\_category.blade.php** |
| <**form class="form" method="post" action="**{{route(**'category.edit'**, $category->**id**)}}**" id="add\_category" name="add\_category"**>  <**input class="form-control" type="text" name="name" id="name" value="**{{$category->**name**}}**"**>  <**div class="form-group m-t-40 row"**>  <**div class="col-10"**>  <**div class="custom-control custom-checkbox mr-sm-2"**>  <**input type="checkbox" class="custom-control-input" id="status" name="status" @if(**$category->**status** == **"1") checked @endif**>  <**label class="custom-control-label" for="status"**>Status</**label**>  </**div**>  </**div**> </**div**> |

Now for updating we will be modifying our editProduct at controller

|  |
| --- |
| **public function** editCategory(Request $request, $id = **null**){  $category = Category::*where*([**'id'** => $id])->first();   **if**($request->isMethod(**'post'**)){  $data = $request->all();  **if**(**empty**($data[**'status'**])){  $data[**'status'**] = **"0"**;  } **else** {  $data[**'status'**] = **"1"**;  }  Category::*where*([**'id'** => $id])->update([**'name'** => *ucwords*(*strtolower*($data[**'name'**])) , **'parent\_id'** => $data[**'parent\_id'**] , **'description'** => $data[**'description'**] , **'slug'** => str\_slug($data[**'name'**]) , **'status'** => $data[**'status'**]  ]);  Session::*flash*(**'info'**, **'Category Has Been Updated'**);  **return** redirect()->route(**'category.view'**);  }  **return** view (**'admin.categories.edit\_category'**)->with(*compact*(**'category'**)); } |

Now for deleting

|  |
| --- |
| **web.php** |
| Route::*match*([**'get'**, **'post'**], **'/admin/delete-category/{id}'**, **'CategoryController@deleteCategory'**)->name(**'category.delete'**); |

|  |
| --- |
| CatgeoryController.php |
| **public function** deleteCategory($id = **null**){  **if**(!**empty**($id)){  Category::*where*([**'id'** => $id])->delete();  Session::*flash*(**'danger'**, **'Category Has Been Permanently Deleted'**);  **return** redirect()->route(**'category.view'**);  } } |

**For deleting we will be using sweet alert**

<**a rel="**{{$category->**id**}}**" rel1="delete-category" href="javascript:" class="btn btn-danger deleteRecord"**>  
 <**i class="fa fa-trash"**></**i**>  
</**a**>

|  |
| --- |
| <**script type="text/javascript" src="https://cdnjs.cloudflare.com/ajax/libs/sweetalert/1.1.3/sweetalert.min.js"**> </**script**> <**script**>  *$*(***document***).ready(**function** () {  *$*(**".deleteRecord"**).click(**function**(){  **var** id = *$*(**this**).attr(**'rel'**);  **var** deleteFunction = *$*(**this**).attr(**'rel1'**);  **swal**({  **title**: **"Are You Sure"**,  **text**: **"You will not be able to recover this record again"**,  **type**: **"warning"**,  **showCancelButton**: **true**,  **confirmButtonClass**: **"btn-danger"**,  **confirmButtonText**: **"Yes, Delete it!"** },  **function**(){  ***window***.location.href=**"/meropasal/admin/"**+deleteFunction+**"/"**+id;  }  );  });  }); </**script**> |

**For displaying all toastr messages**

**Do not forget to import css and js for sweet alert too**

|  |
| --- |
| <**script**>  **@if(**Session::*has*(**'success'**)**)  toastr**.success(**'**{{Session::*get*(**'success'**)}}**'**)  **@endif   @if(**Session::*has*(**'info'**)**)  toastr**.info(**'**{{Session::*get*(**'info'**)}}**'**)  **@endif   @if(**Session::*has*(**'danger'**)**)  toastr**.error(**'**{{Session::*get*(**'danger'**)}}**'**)  **@endif** </**script**> |

Adding Sub Categories to Categories

|  |
| --- |
| **public function** addCategory(Request $request){  **if**($request->isMethod(**'post'**)){  $data = $request->all();  $category = **new** Category;  $category->**name** = *ucwords*(*strtolower*($data[**'name'**]));  $category->**description** = $data[**'description'**];  $category->**slug** = str\_slug($data[**'name'**]);  **if**($request->**status** = **"checked"**){  $category->**status** = **"1"**;  } **else** {  $category->**status** = **"0"**;  }  $category->**parent\_id** = $data[**'parent\_id'**];  $category->save();  Session::*flash*(**'success'**, **'Category Has Been Inserted Successfully'**);  **return** redirect()->route(**'category.view'**);  }   $levels = Category::*where*([**'parent\_id'** => 0])->get(); added this  **return** view (**'admin.categories.add\_category'**, *compact*(**'levels'**)); } |

|  |
| --- |
| **add\_category.blade.php** |
| <**select class="custom-select col-12" name="parent\_id" id="parent\_id"**>  <**option value="0"**>Main Category</**option**>  changed this  **@foreach(**$levels **as** $level**)** <**option value="**{{$level->**id**}}**"**>{{$level->**name**}}</**option**>  **@endforeach**  **till here** </**select**> |

Same process for edit too

Also, for displaying category name

<**td**>  
 **@if(**$category->**parent\_id** == 0**)** <**span class="badge badge-primary"**>{{ **'Main Category'** }}</**span**>  
 **@endif  
 @foreach(**$categories **as** $c**)  
 @if(**$c->**id** == $category->**parent\_id)** <**span class="badge badge-info"**>{{ $c->**name** }}</**span**>  
 **@endif  
 @endforeach**</**td**>

**Products Section**

**php artisan make:model Products –m**

|  |
| --- |
| Create\_products\_table.php |
| Schema::*create*(**'products'**, **function** (Blueprint $table) {  $table->increments(**'id'**);  $table->integer(**'category\_id'**);  $table->string(**'product\_name'**);  $table->string(**'product\_code'**);  $table->string(**'prodcut\_color'**);  $table->text(**'description'**);  $table->float(**'price'**);  $table->string(**'image'**);  $table->timestamps(); }); |

**php artisan migrate**

**php artisan make:contyroller ProductsController**

|  |
| --- |
| **web.php** |
| Route::*match*([**'get'**, **'post'**], **'admin/add-product'**, **'ProductsController@addProduct'**)->name(**'product.add'**); |
| ProductController.php |
| **public function** addProduct(Request $request){  **return** view (**'admin.products.add\_product'**);  } |

**Create a new file:** add\_product.blade.php

**Copy and customize from add category page and get the form for inserting all the products**

For displaying categories in add product

|  |
| --- |
| **public function** addProduct(Request $request){  $categories = Category::*where*([**'parent\_id'** => 0])->get();  $categories\_dropdown = **"<option selected disabled> Select </option>"**;  **foreach**($categories **as** $cat){  $categories\_dropdown .= **"<option value='"**.$cat->**id**.**"'>"**.$cat->**name**.**"</option>"**;  $sub\_categories = Category::*where*([**'parent\_id'** => $cat->**id**])->get();  **foreach**($sub\_categories **as** $sub\_cat){  $categories\_dropdown .= **"<option value='"**.$sub\_cat->**id**.**"'> &nbsp; -- &nbsp;"** .$sub\_cat->**name** .**"</option>"**;  }  }  **return** view (**'admin.products.add\_product'**)->with(*compact*(**'categories\_dropdown'**)); } |

|  |
| --- |
| **add\_product.blade.php** |
| <**div class="form-group row"**>  <**label for="" class="col-2 col-form-label"**>Under Category</**label**>  <**div class="col-10"**>  <**select class="custom-select col-12" name="category\_id" id="category\_id"**>  **<?php echo** $categories\_dropdown **?>** </**select**>  </**div**> </**div**> |

Noe validate the product method

Now save the proucts

|  |
| --- |
| **public function** addProduct(Request $request){   **if**($request->isMethod(**'post'**)){  $data = $request->all(); *// echo "<pre>"; print\_r($data); die; // dd($data);* $product = **new** Product;  **if**(**empty**($data[**'category\_id'**])){  **return** redirect()->back()->with(**'flash\_message\_error'**, **'Under Category is Missing'**);  } **else** {  $product->**category\_id** = $data[**'category\_id'**];  }   $product->**product\_name** = *ucwords*(*strtolower*($data[**'product\_name'**]));  $product->**product\_code** = *strtoupper*($data[**'product\_code'**]);  $product->**prodcut\_color** = $data[**'product\_color'**];   **if**(!**empty**($data[**'description'**])){  $product->**description** = $data[**'description'**];  } **else** {  $product->**description** = **""**;  }  $product->**price** = $data[**'price'**];    **if**($request->hasFile(**'image'**)){  $image\_tmp = Input::*file*(**'image'**);  **if**($image\_tmp->isValid()){  $extension = $image\_tmp->getClientOriginalExtension();  $filename = *rand*(1200,999999).**'.'**.$extension;   $large\_image\_path = **'public/adminpanel/uploads/products/large/'**.$filename;  $medium\_image\_path = **'public/adminpanel/uploads/products/medium/'**.$filename;  $small\_image\_path = **'public/adminpanel/uploads/products/small/'**.$filename;   Image::*make*($image\_tmp)->save($large\_image\_path);  Image::*make*($image\_tmp)->resize(600,600)->save($medium\_image\_path);  Image::*make*($image\_tmp)->resize(300,300)->save($small\_image\_path);   $product->**image** = $filename;   }  }   $product->save();  **return** redirect()->back();   }    $categories = Category::*where*([**'parent\_id'** => 0])->get();  $categories\_dropdown = **"<option selected disabled> Select</option>"**;  **foreach**($categories **as** $cat){  $categories\_dropdown .= **"<option value='"**.$cat->**id**.**"'>"**. $cat->**name** .**" </option>"**;  $sub\_categories = Category::*where*([**'parent\_id'** => $cat->**id**])->get();  **foreach**($sub\_categories **as** $sub\_cat){  $categories\_dropdown .= **"<option value='"**.$sub\_cat->**id**.**"'> &nbsp; --- &nbsp; "**.$sub\_cat->**name**.**"</option>"**;  }  }  **return** view (**'admin.products.add\_product'**, *compact*(**'categories\_dropdown'**));  } |

**Now viewing the products**

|  |
| --- |
| **web.php** |
| Route::*get*(**'/admin/view-products'**, **'ProductsController@viewProducts'**)->name(**'product.view'**); |
| ProductsController.php |
| **public function** viewProducts(){  $products = Product::*latest*()->get();   **return** view (**'admin.products.view\_products'**, *compact*(**'products'**)); } |

**Now create the view\_products.blade.php file and show the details**

|  |
| --- |
| View\_products.blade.php |
| **@foreach(**$products **as** $product**)** <**tr**>  <**td**>{{$loop->**index** +1}}</**td**>  <**td**>{{$product->**product\_name**}}</**td**>  <**td**>{{$product->**category\_name**}}</**td**>  <**td**>  <**img src="**{{asset(**'public/adminpanel/uploads/products/small/'**.$product->**image**)}}**" alt="" width="100px;"**>  </**td**>  <**td**>{{$product->**price**}}</**td**>  <**td**>  <**a href="" class="btn btn-info"**>  <**i class="fa fa-edit"**></**i**>  </**a**>  <**a rel="" rel1="delete-category" href="javascript:" class="btn btn-danger deleteRecord"**>  <**i class="fa fa-trash"**></**i**>  </**a**>  </**td**>  </**tr**>  **@endforeach** |

Displaying the categories name according to the category id

|  |
| --- |
| **public function** viewProducts(){  $products = Product::*get*();  **foreach**($products **as** $key => $val){  $category\_name = Category::*where*([**'id'**=>$val->**category\_id**])->first();  $products[$key]->**category\_name** = $category\_name->**name**;  }  **return** view(**'admin.products.view\_products'**)->with(*compact*(**'products'**)); } |
| <**td**>  **@if(**!**empty**($product->**image**)**)** <**img src="**{{asset(**'/images/backend\_images/products/small/'**.$product->**image**)}}**" alt="" width="60px;"**>  **@endif** </**td**>  <**td**>{{$product->**category\_name**}}</**td**> |

**Products Details Modal Pop Up**

**It is not possible to show complete products details in view products table itself so we will open modal pop up to show details for the products**

|  |
| --- |
| <**a data-toggle="modal" data-target="#myModal**{{$product->**id**}}**" class="btn btn-warning"**>  <**i class="fa fa-eye"**></**i**> </**a**>  <**div id="myModal**{{$product->**id**}}**" class="modal fade" tabindex="-1" role="dialog" aria-labelledby="myModalLabel" aria-hidden="true"**>  <**div class="modal-dialog"**>  <**div class="modal-content"**>  <**div class="modal-header"**>  <**h4 class="modal-title" id="myModalLabel"**>{{$product->**product\_name**}}</**h4**>  <**button type="button" class="close" data-dismiss="modal" aria-hidden="true"**>×</**button**>  </**div**>  <**div class="modal-body"**>  <**p**><**strong**>Product Code : </**strong**> {{$product->**product\_code**}}</**p**>  <**p**><**strong**>Product Color : </**strong**> {{$product->**prodcut\_color**}}</**p**>  <**p**><**strong**>Product Price : </**strong**> {{$product->**price**}}</**p**>  <**p**><**strong**>Description</**strong**></**p**>  {!! *htmlspecialchars\_decode*($product->**description**) !!}   </**div**>  <**div class="modal-footer"**>  <**button type="button" class="btn btn-info waves-effect" data-dismiss="modal"**>Close</**button**>  </**div**>  </**div**>  *<!-- /.modal-content -->* </**div**>  *<!-- /.modal-dialog -->* </**div**> |

**Now editing products**