# **Ajax Filter**

# **Ajax Product Filter Using Model in LARAVEL**

#### **MIGRATION** Page -

```
Command:

php artisan make:model Category -m

php artisan make:model Product -m

php artisan migrate
```

## **Categories table**

```
use Illuminate\Database\Migrations\Migration;
use Illuminate\Database\Schema\Blueprint;
use Illuminate\Support\Facades\Schema;
return new class extends Migration
     * Run the migrations.
    public function up(): void
        Schema::create('categories', function (Blueprint $table) {
            $table->id();
            $table->string('name');
            $table->timestamps();
        });
     * Reverse the migrations.
    public function down(): void
        Schema::dropIfExists('categories');
    }
};
```

### products table

```
use Illuminate\Database\Migrations\Migration;
use Illuminate\Database\Schema\Blueprint;
use Illuminate\Support\Facades\Schema;
return new class extends Migration
    * Run the migrations.
    public function up(): void
        Schema::create('products', function (Blueprint $table) {
            $table->id();
            $table->string('name');
            $table->integer('price');
            $table->string('description');
            $table->unsignedBigInteger('category id');
            $table->foreign('category_id')->references('id')-
>on('categories');
            $table->timestamps();
        });
     * Reverse the migrations.
    public function down(): void
        Schema::dropIfExists('products');
};
```

#### Controller Page -

#### Command:

php artisan make:controller ProductController

```
namespace App\Http\Controllers;
use App\Models\Product;
use App\Models\Category;
use Illuminate\Http\Request;
class ProductController extends Controller
    public function filterProduct(Request $request)
        $query = Product::query();
        $categories = Category::all();
        if($request->ajax())
            if(empty($request->category))
                $products = $query->get();
            else
                $products = $query->where(['category_id' => $request->category])->get();
            return response()->json(['products' => $products]);
        $products = $query->get();
        return view('product', compact('categories', 'products'));
```

#### **ROUTE Page –**

# View page -

### product.blade.php

```
<h1>Products Filter</h1>
<select name="category" id="category">
   <option value="">Select Category</option>
      @if(count($categories) > 0)
         @foreach ($categories as $category )
             <option value="{{ $category['id'] }}">{{ $category->name }}</option>
         @endforeach
      @endif
</select>
S.No
      Name
      Price
      Description
   @if(count($products) > 0)
         @foreach ($products as $product)
            {{ $product['id'] }}
                {{ $product['name'] }}
                {{ $product['price'] }}
                {{ $product['description'] }}
             @endforeach
      @endif
  <script>
   $(document).ready(function(){
      $("#category").on('change', function(){
         var category = $(this).val();
         $.ajax({
            url:"{{ route('filter') }}",
            type:"GET",
            data:{'category' : category},
```

```
success: function(data){
             var products = data.products;
             if(products.length > 0)
                 for(let i = 0; i < products.length; i++)</pre>
                        '+(i+1)+'\
                       '+products[i]['name']+'\
                       '+products[i]['price']+'
                       '+products[i]['description']+'\
                       ';
             else
                    No products found
                    ';
             $("#tbody").html(html);
   });
});
```

## 

			ct Category 🗸	
		Sele Shoe	ct Category	
S.No	Name	Deir Cloth	Olethere	Description
1	Product 1	19		Description for Product 1
2	Product 2	29		Description for Product 2
3	Product 3	39		Description for Product 3
4	Product 4	49	Description for Product 4	
5	Product 5	59		Description for Product 5
6	Product 6	69		Description for Product 6
7	Product 7	79		Description for Product 7
8	Product 8	89	Description for Product 8	
9	Product 9	99	Description for Product 9	
10	Product 10	109	Description for Product 10	
11	Product 11	119	Description for Product 11	
12	Product 12	129	Description for Product 12	
13	Product 13	139	Description for Product 13	
14	Product 14	149	Description for Product 14	
15	Product 15	159	Description for Product 15	



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