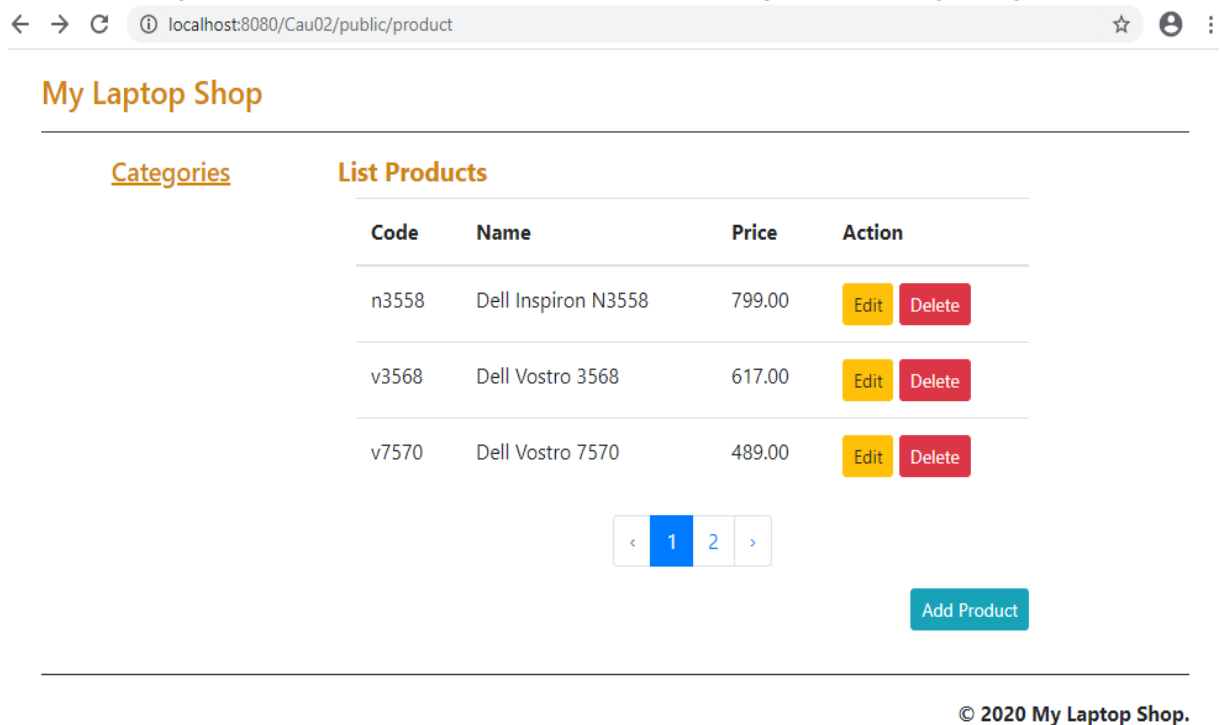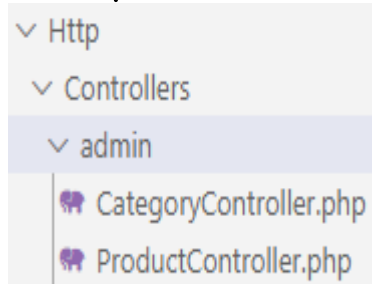**Câu 02.** Tạo ứng dụng web Laravel. Thao tác hiển thị, thêm, xóa, sửa và phân trang dữ liệu với bảng **Products** của cơ sở dữ liệu **Lab14**. Với giao diện ứng dụng web như sau:
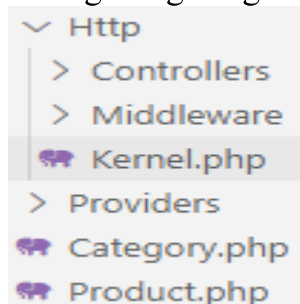

Gợi ý:

- B1. Tạo **Controllers** cho ứng dụng web Laravel như sau:

+) Sử dụng câu lệnh dưới đây trong **Terminal** để tạo file **ProductController.php**:

PS C:\xampp\htdocs\Lab14> php artisan make:controller admin\ProductController --resource

- B2. Mở file **model: Product.php** định nghĩa một số thuộc tính tương ứng với các trường trong bảng **Products** của csdl **Lab14**.

<?php

namespace App;

use Illuminate\Database\Eloquent\Model;

class Product extends Model

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```
{
    protected $table = 'products';

    protected $primaryKey = 'productID';

    protected $fillable = ['productID', 'categoryID','productCode','productName'
    ,'decription','productImage','listPrice','discoutPercent'];

}
?>
```

- B3. Mở file **routes\web.php**, bổ sung đoạn mã sau để điều hướng đến các chức năng hiển thị, thêm, xóa, sửa sản phẩm.

```
Route::group(['namespace' => 'admin'], function () {

    Route::resources([

        'category'=>'CategoryController',

        'product'=>'ProductController'

        ]);

});
Route::get('admin',function(){

    return view('admin');

});
```

- B4. Cập nhật lại nội dung các file **views**, tạo bố cục ứng dụng web và tạo các file view mới để tạo giao diện cho các chức năng hiển thị, thêm, xóa, sửa sản phẩm bảng Products.
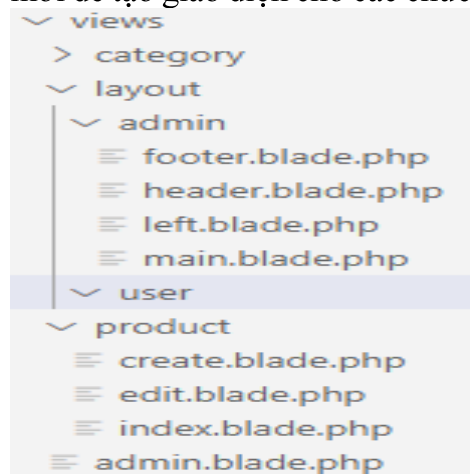
- B4.1. File **layout\admin\footer.blade.php**

```
<hr class="border-dark">

<footer>

    <p class="font-weight-bold d-flex justify-content-end">

        &copy; <?php echo date("Y");?> My Laptop Shop.
```

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```
    </p>
</footer>
```

- B4.2. File layout\admin\header.blade.php

```
<header>
    <h4>My Laptop Shop</h4>
</header>
<hr class="border-dark">
```

- B4.3. File layout\admin\left.blade.php

```
<h5><a href="{{ route('category.index') }}">Categories</a></h5>
```

- B4.4. File layout\admin\main.blade.php

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <meta http-equiv="X-UA-Compatible" content="ie=edge">
    <title>My Laptop Shop</title>
    <link rel="stylesheet" href="{{ asset('css/bootstrap-4.3.1.min.css') }}">
    <style>
        h4, h5{
            color:#CF8507;
        }
        h5 a{
            color:#CF8507;
            text-decoration: underline;
        }
        h5 a:hover{
            color:#CF8507;
            text-decoration: none;
        }
    </style>
</head>
<body>
    <div class="container mt-3">
```

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```
<div class="row">
    <div class="col-sm-12">
        @include('layout.admin.header')
    </div><!--header-->
</div>
<div class="row">
    <div class="col-sm-3 d-flex justify-content-sm-center">
        @include('layout.admin.left')
    </div><!--left-->
    <div class="col-sm-9">
        {{-- @yield: display content of section --}}
        @yield('content')
        {{-- or use code below: @section('content') @show --}}
    </div><!--content-->
</div>
<div class="row">
    <div class="col-sm-12">
        @include('layout.admin.footer')
    </div><!--footer-->
</div>
</div>
</body>
</html>
```

- B4.5. File **product\index.blade.php**

My Laptop Shop

<u>Categories</u>   **List Products**

Code	Name	Price	Action
n3558	Dell Inspiron N3558	799.00	Edit Delete
v3568	Dell Vostro 3568	617.00	Edit Delete
v7570	Dell Vostro 7570	489.00	Edit Delete

‹ 1 2 ›

Add Product

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```
@extends('layout.admin.main')
@section('content')
<h5 style="font-weight: bold">List Products</h5>
<div class="container">
    <div class="row">
        <div class="col-sm-10">
            <table class="table table-hover table-border">
                <thead>
                    <tr>
                        <th>Code</th>
                        <th>Name</th>
                        <th>Price</th>
                        <th>Action</th>
                    </tr>
                </thead>
                <tbody>
                    @foreach($products as $product)
                    <tr>
                        <td>{{ $product->productCode }}</td>
                        <td>{{ $product->productName }}</td>
                        <td>{{ $product->listPrice }}</td>
                        <td>
                            <a href="{{ route('product.edit', $product->productID) }}" class="btn btn-warning btn-sm">Edit</a>
                            <form class="d-inline-block" action="{{route('product.destroy', $product->productID)}}" method="post">
                                {{ csrf_field() }}
                                {{--
- csrf_field(): bảo mật dữ liệu đầu vào các input trên form, tránh tấn công giả mạo --}}
                                @method('DELETE')
                                <input type="submit" value="Delete" class="btn btn-danger btn-sm">
                            </form>
                        </td>
                    </tr>
                    @endforeach
```

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```
                </tbody>
            </table>
            <div class="d-flex justify-content-center">{{ $products->links() }}</div>
            <p class="d-flex justify-content-end">
                <a class="btn btn-info btn-sm" href="{{ route('product.create') }}">Add Product</a>
            </p>
        </div>
    </div>
</div>
@endsection
```

- B4.6. File **product\create.blade.php**

My Laptop Shop

Categories	**Add Product**
	Category:
	Dell ⌄
	Code:
	Name:
	List Price:
	Create Product

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```
@extends('layout.admin.main')
@section('content')
<h5 style="font-weight: bold">Add Product</h5>
<div class="container">
    <div class="row">
        <div class="col-sm-10">
            <form action="{{ route('product.store') }}" method="post">
                {{ csrf_field() }}
                <div class="form-group">
                    <label for="categoryID" style="font-weight: bold">Category:</label>
                    <select name="categoryID" id="categoryID" class="form-control">
                        @foreach($categories as $category)
                        <option value="{{ $category->categoryID  }}">
```

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{{ $category->categoryName }}

</option>

@endforeach

</select>

</div>

<div class="form-group">

<label for="productCode" style="font-weight: bold">Code:</label>

<input type="text" name="productCode" id="productCode" class="form-control">

</div>

<div class="form-group">

<label for="productName" style="font-weight: bold">Name:</label>

<input type="text" name="productName" id="productName" class="form-control">

</div>

<div class="form-group">

<label for="listPrice" style="font-weight: bold">List Price:</label>

<input type="text" name="listPrice" id="listPrice" class="form-control">

</div>

<div class="form-group">

<input class="btn btn-info btn-sm" type="submit" value="Create Product">

</div>

</form>

</div>

</div>

</div>

@endsection

- B4.7. File **product\edit.blade.php**

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```
@extends('layout.admin.main')
@section('content')
<h5 style="font-weight: bold">Edit Product</h5>
<div class="container">
    <div class="row">
        <div class="col-sm-10">
            <form action="{{ route('product.update',$product->productID) }}" method="post">
                {{ csrf_field() }}
                @method('PUT')
                <div class="form-group">
                    <label for="categoryID" style="font-weight: bold">Category:</label>
                    <select name="categoryID" id="categoryID" class="form-control">
                        @foreach($categories as $category)
                        <option value="{{ $category->categoryID  }}" {{ ($category->categoryID==$product->categoryID)?'selected':''}}>
                            {{ $category->categoryName }}
                        </option>
                        @endforeach
                    </select>
                </div>
                <div class="form-group">
                    <label for="productCode" style="font-weight: bold">Code:</label>
                    <input type="text" name="productCode" id="productCode" class="form-control" value={{ $product->productCode }}>
                </div>
                <div class="form-group">
                    <label for="productName" style="font-weight: bold">Name:</label>
                    <input type="text" name="productName" id="productName" class="form-control" value={{ $product->productName }}>
                </div>
                <div class="form-group">
                    <label for="listPrice" style="font-weight: bold">List Price:</label>
                    <input type="text" name="listPrice" id="listPrice" class="form-control" value={{ $product->listPrice }}>
                </div>
```

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```
                    <div class="form-group">
                    <input class="btn btn-info btn-sm" type="submit" value="Save">
                    </div>
                </form>
            </div>
        </div>
    </div>
@endsection
```

- B5. Mở file **ProductController.php**, viết code cho các **phương thức index(), create(), store(), edit(), update(), destroy()** xử lý các nghiệp vụ hiển thị, thêm, sửa và xóa sản phẩm trong bảng Products.

```php
<?php
namespace App\Http\Controllers\admin;
use App\Http\Controllers\Controller;
use App\Category;
use App\Product;
use Illuminate\Http\Request;
class ProductController extends Controller
{
    public function index()
    {
        //use Eloquent ORM
        $products = Product::paginate(3);
        return view('product.index',['products'=>$products]);
    }
    public function create()
    {
        $categories = Category::all();
        return view('product.create',['categories'=>$categories]);
    }
public function store(Request $request)
    {
        $product = new Product();
        $product->categoryID = $request->categoryID;
        $product->productCode = $request->productCode;
```

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```php
        $product->productName = $request->productName;

        $product->listPrice = $request->listPrice;

        $product->save();

        return redirect()->route('product.index');

    }

    public function edit($id)

    {

        $categories = Category::all();

        $product = Product::find($id);

        return view('product.edit',['categories'=>$categories,'product'=>$product]);

    }

    public function update(Request $request, $id)

    {

        $product = Product::find($id);

        $product->categoryID = $request->categoryID;

        $product->productCode = $request->productCode;

        $product->productName = $request->productName;

        $product->listPrice = $request->listPrice;

        $product->save();

        return redirect()->route('product.index');

    }

    public function destroy($id)

    {

        $product = Product::find($id)->delete();

        return redirect()->route('product.index');

    }

}
```

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