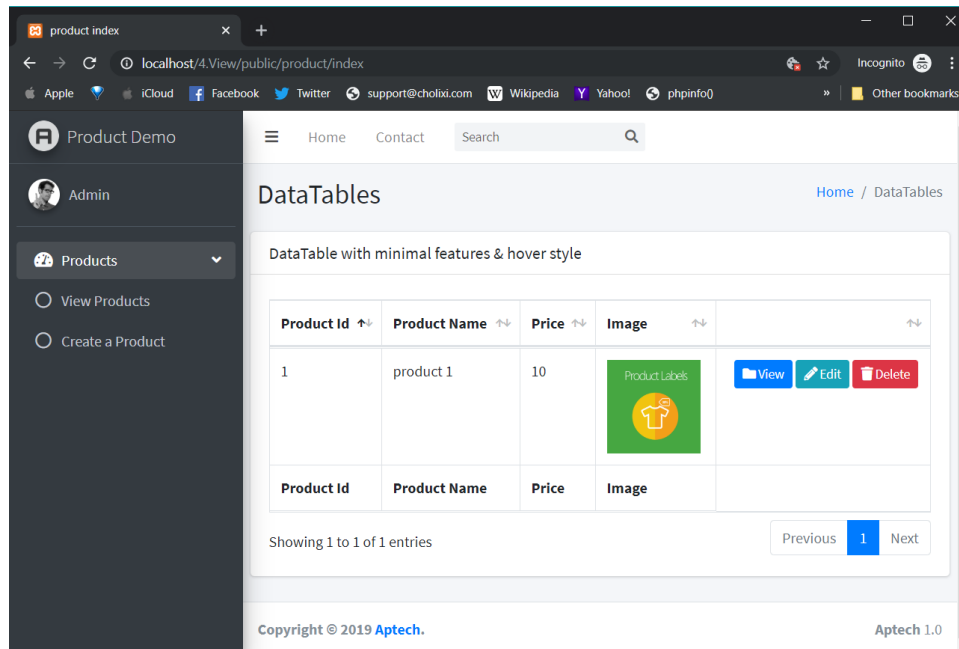
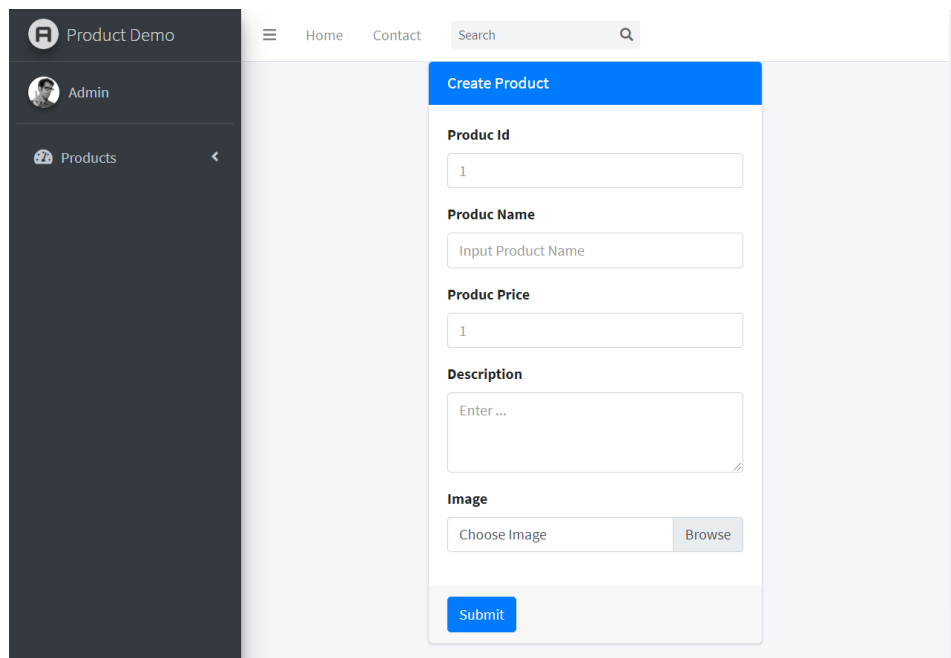


## LARAVEL VIEW

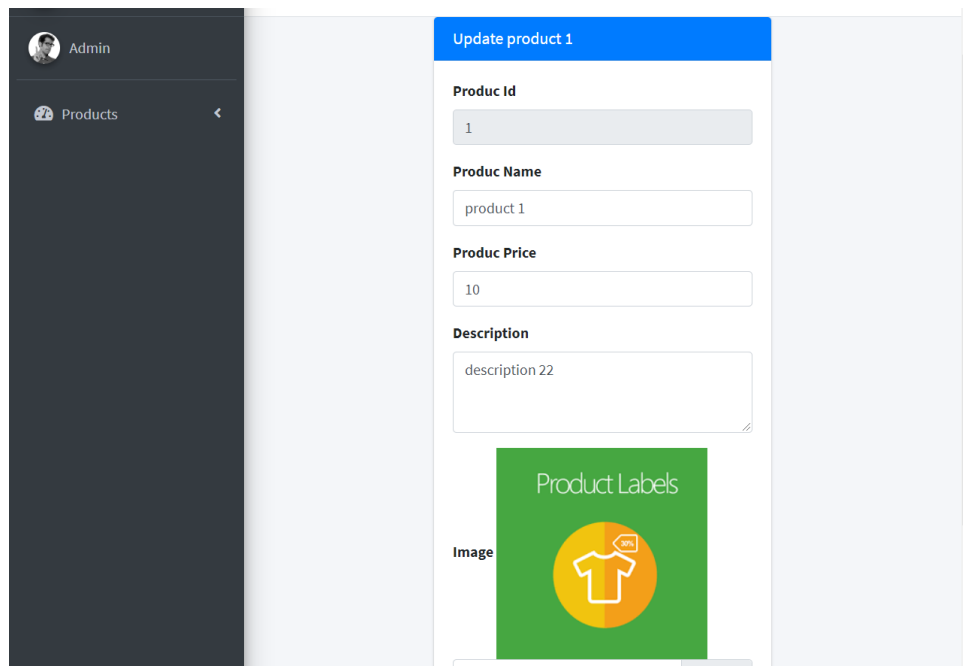
Viết chương trình thực hiện chức năng CRUD được mô tả như các hình



Khi chọn **Create a Product**, màn hình **Create Product** xuất hiện



Khi chọn **Update**, màn hình **Update Product** xuất hiện, và dữ liệu của Product tương ứng xuất hiện để chỉnh sửa

The screenshot shows a web application interface with a dark sidebar on the left. The sidebar has a user profile 'Admin' and a 'Products' menu item. The main content area is titled 'Update product 1' in a blue header. Below the header, there are four form fields: 'Product Id' with the value '1', 'Product Name' with 'product 1', 'Product Price' with '10', and 'Description' with 'description 22'. Below these fields is a section labeled 'Product Labels' which contains an 'Image' field. The image field shows a green square with a yellow circle in the center, containing a white shirt icon and a small red speech bubble with the text '3m'.

Khi chọn **Delete**, Product tương ứng sẽ bị xóa.

Trong bài này có sử dụng Web Template: **AdminLTE**: <https://adminlte.io/>

## 1. Tạo Cơ sở dữ liệu

- Sử dụng đoạn script dưới đây để tạo cơ sở dữ liệu trong MySQL

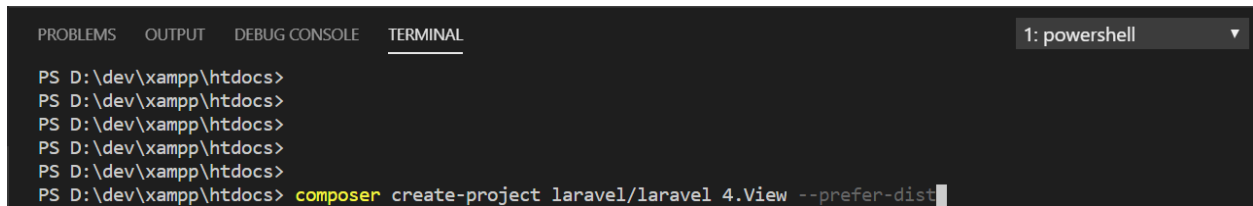
```
/* DROP DATABASE IF EXISTS demo;  
CREATE DATABASE demo; */
```

```
use demo;
```

```
CREATE TABLE product (  
  id int(8) AUTO_INCREMENT PRIMARY KEY ,  
  name varchar(128) ,  
  price int(10) ,  
  description text ,  
  image varchar(128)  
);
```

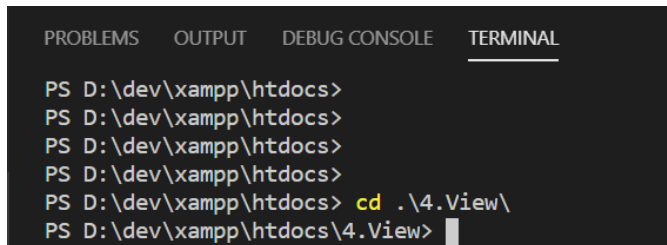
## 2. Tạo project Laravel

- Chạy **Visual Studio Code** lên
- Mở cửa sổ **Terminal** của Visual Studio Code: **View | Terminal** hoặc tổ hợp phím tắt (**Ctrl + `**).
- Trong cửa sổ **Terminal**, chuyển đến thư mục **...\xampp\htdocs**
  - o ...> **cd ...\\xampp\\htdocs**
- Sử dụng **composer**, tạo project **4.View**
  - o **composer create-project laravel/laravel 4.View --prefer-dist**



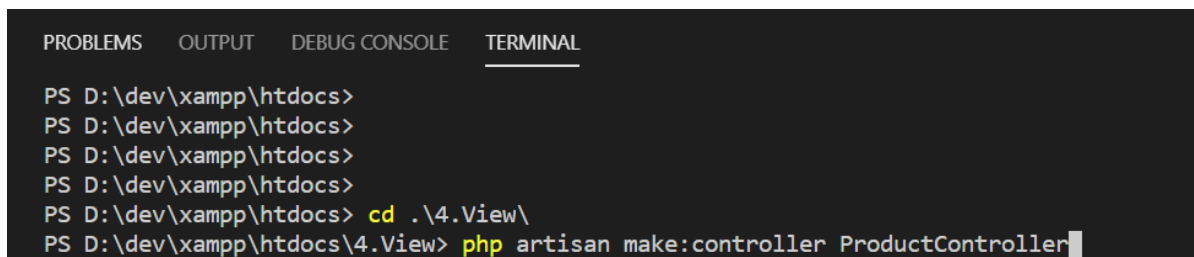
```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL 1: powershell
PS D:\dev\xampp\htdocs>
PS D:\dev\xampp\htdocs>
PS D:\dev\xampp\htdocs>
PS D:\dev\xampp\htdocs>
PS D:\dev\xampp\htdocs>
PS D:\dev\xampp\htdocs> composer create-project laravel/laravel 4.View --prefer-dist
```

- Chuyển vào thư mục **4.View**
  - o ...> **cd 4.View**



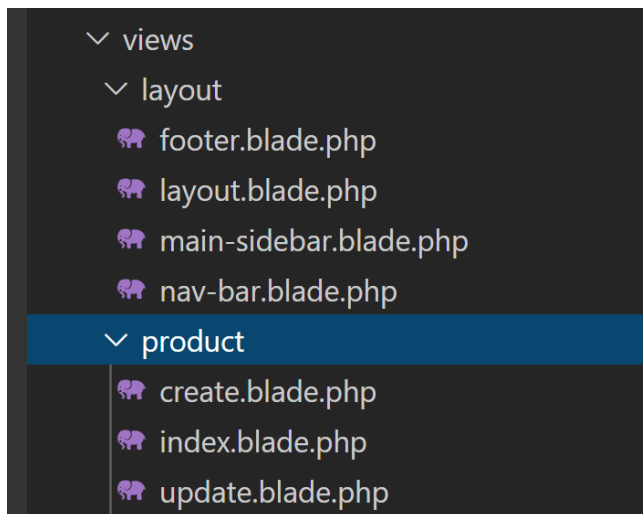
```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
PS D:\dev\xampp\htdocs>
PS D:\dev\xampp\htdocs>
PS D:\dev\xampp\htdocs>
PS D:\dev\xampp\htdocs>
PS D:\dev\xampp\htdocs> cd .\4.View\
PS D:\dev\xampp\htdocs\4.View>
```

- Tạo **ProductController**
  - o ...> **php artisan make:controller ProductController**



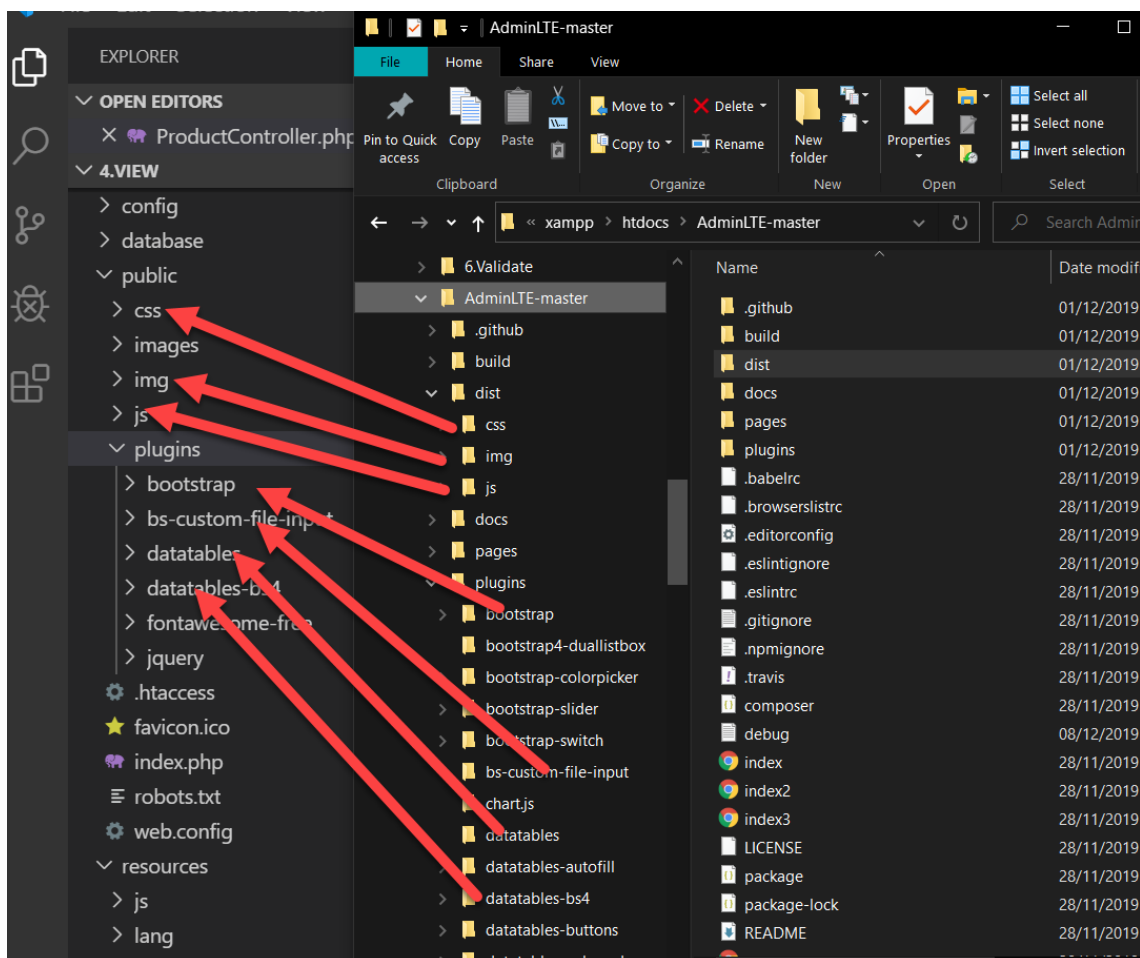
```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
PS D:\dev\xampp\htdocs>
PS D:\dev\xampp\htdocs>
PS D:\dev\xampp\htdocs>
PS D:\dev\xampp\htdocs>
PS D:\dev\xampp\htdocs> cd .\4.View\
PS D:\dev\xampp\htdocs\4.View> php artisan make:controller ProductController
```

- Chuyển đến thư mục **resources\views**, tạo 2 thư mục con **product**, **layout**
  - o Trong thư mục **product**, tạo 3 tập tin: **create.blade.php**, **index.blade.php**, **update.blade.php**.
  - o Trong thư mục **layout**, tạo các tập tin: **layout.blade.php**, **nav-bar.blade.php**, **main-sidebar.blade.php**, **footer.blade.php**.



### 3. Copy các thư viện cần thiết của AdminLTE vào 4.View\public

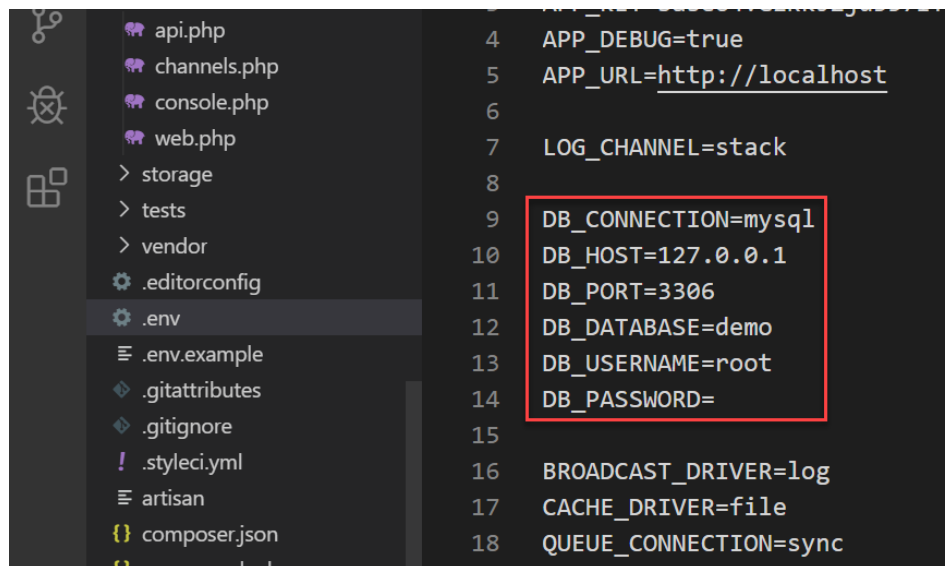
- Cần copy các thư viện theo hình minh họa



## 4. Khai báo kết nối trong tập tin .env

Mở tập tin .env từ thư mục gốc của project.

Chỉnh sửa thông tin kết nối như sau:



## 5. Viết mã xử lý.

### 5.1. Viết mã cho phần Controller

Mở tập tin **ProductController** trong thư mục **app\Http\Controllers**

Viết code như sau:

```
<?php

namespace App\Http\Controllers;

use Illuminate\Http\Request;
use Illuminate\Support\Facades\DB;

class ProductController extends Controller
{
    public function index() {
        $products = DB::table('product')->get();
        return view('product.index')->with(['products'=>$products]);
    }

    public function create() {
```

```
        return view('product.create');
    }

    public function postCreate(Request $request) {
        // nhận tất cả tham số vào mảng product
        $product = $request->all();
        // xử lý upload hình vào thư mục
        if($request->hasFile('image'))
        {
            $file=$request->file('image');
            $extension = $file->getClientOriginalExtension();
            if($extension != 'jpg' && $extension != 'png' && $extension !='jpeg')
            {
                return redirect('product/create')->with('loi','Bạn chỉ được chọn file có đuôi jpg,png,jpeg');
            }
            $imageName = $file->getClientOriginalName();
            $file->move("images",$imageName);
        }
        else
        {
            $imageName = null;
        }

        DB::table('product')->insert([
            'id'=>intval($product['id']),
            'name'=>$product['name'],
            'price'=>intval($product['price']),
            'description'=>$product['description'],
            'image'=>$imageName
        ]);
        return redirect()->action('ProductController@index');
    }

    public function update($id) {
        $p = DB::table('product')
            ->where('id', intval($id))
            ->first();

        return view('product.update', ['p'=>$p]);
    }

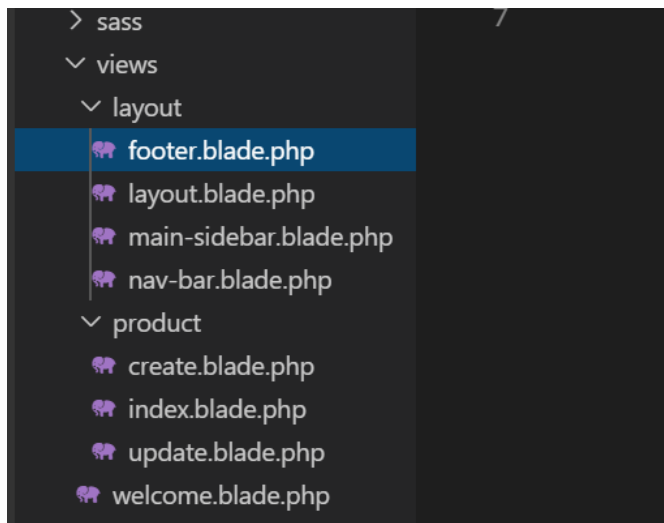
    public function postUpdate(Request $request, $id) {
```

```
$name = $request->input('name');
$price = $request->input('price');
$description = $request->input('description');
// xử lý upload hình vào thư mục
if($request->hasFile('image'))
{
    $file=$request->file('image');
    $extension = $file->getClientOriginalExtension();
    if($extension != 'jpg' && $extension != 'png' && $extension !='jpeg')
    {
        return redirect('product/update')->with('loi','Bạn chỉ được chọn file có đuôi jpg,png,jpeg');
    }
    $imageName = $file->getClientOriginalName();
    $file->move("public/images",$imageName);
} else { // không upload hình mới => giữ lại hình cũ
    $p = DB::table('product')
        ->where('id', intval($id))
        ->first();
    $imageName = $p->image;
}

$p = DB::table('product')
    ->where('id', intval($id))
    -
>update(['name'=>$name, 'price'=>intval($price), 'description'=>$description, 'image'=>
$imageName]);
    return redirect()->action('ProductController@index');
}
public function delete($id) {
    $p = DB::table('product')
        ->where('id', intval($id))
        ->delete();
    return redirect()->action('ProductController@index');
}
}
```

## 5.2. Viết mã cho phần view

Mở tập tin **footer.blade.php** trong thư mục **resources\views\layout**



Viết mã cho tập tin này như sau:

```
<footer class="main-footer">
  <div class="float-right d-none d-sm-block">
    <b>Aptech</b> 1.0
  </div>
  <strong>Copyright &copy; 2019 <a href="http://aptech.fpt.edu.vn/">Aptech</a>.</stro
ng>
</footer>
```



Viết mã cho tập tin **layout.blade.php** như sau:

```
<!DOCTYPE html>
<html>
<head>
    <meta charset="utf-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <title>@yield('title')</title>
    <!-- Tell the browser to be responsive to screen width -->
    <meta name="viewport" content="width=device-width, initial-scale=1">

    <!-- Font Awesome -->
    <link rel="stylesheet" href="{{ asset('plugins/fontawesome-free/css/all.min.css') }}">
    <!-- Ionicons -->
    <link rel="stylesheet" href="https://code.ionicframework.com/ionicons/2.0.1/css/ionicons.min.css">
    <!-- DataTables -->
    <link rel="stylesheet" href="{{ asset('plugins/datatables-bs4/css/dataTables.bootstrap4.css') }}">
    <!-- Theme style -->
    <link rel="stylesheet" href="{{ asset('css/adminlte.min.css') }}">
    <!-- Google Font: Source Sans Pro -->
    <link href="https://fonts.googleapis.com/css?family=Source+Sans+Pro:300,400,400i,700" rel="stylesheet">
</head>
<body class="hold-transition sidebar-mini">
<div class="wrapper">
    <!-- Navbar -->
    @include('layout.nav-bar')
    <!-- /.navbar -->

    <!-- Main Sidebar Container -->
    @include('layout.main-sidebar')
    <!-- Content Wrapper. Contains page content -->
    <div class="content-wrapper">
        @yield('content')
    <!-- /.content -->
</div>
</body>
</html>
```

```
</div>
<!-- /.content-wrapper -->
@include('layout.footer')

<!-- Control Sidebar -->
<aside class="control-sidebar control-sidebar-dark">
    <!-- Control sidebar content goes here -->
</aside>
<!-- /.control-sidebar -->
</div>
<!-- ./wrapper -->

<!-- jQuery -->
<script src="{{ asset('plugins/jquery/jquery.min.js') }}"></script>
<!-- Bootstrap 4 -->
<script src="{{ asset('plugins/bootstrap/js/bootstrap.bundle.min.js') }}"></script>
<!-- DataTables -->
<script src="{{ asset('plugins/datatables/jquery.dataTables.js') }}"></script>
<script src="{{ asset('plugins/datatables-bs4/js/dataTables.bootstrap4.js') }}"></script>
<!-- AdminLTE App -->
<script src="{{ asset('js/adminlte.min.js') }}"></script>
<!-- AdminLTE for demo purposes -->
<script src="{{ asset('dist/js/demo.js') }}"></script>
<!-- page script -->
@yield('script-section')
</body>
</html>
```

Viết mã cho tập tin **main-sidebar.blade.php** như sau:

```
<aside class="main-sidebar sidebar-dark-primary elevation-4">
    <!-- Brand Logo -->
    <a href="{{ url('/') }}" class="brand-link">
        
        <span class="brand-text font-weight-light">Product Demo</span>
    </a>

    <!-- Sidebar -->
    <div class="sidebar">
        <!-- Sidebar user (optional) -->
        <div class="user-panel mt-3 pb-3 mb-3 d-flex">
            <div class="image">
                
            </div>
            <div class="info">
                <a href="#" class="d-block">Admin</a>
            </div>
        </div>

        <!-- Sidebar Menu -->
        <nav class="mt-2">
            <ul class="nav nav-pills nav-sidebar flex-column" data-
widget="treeview" role="menu" data-accordion="false">
                <!-- Add icons to the links using the .nav-icon class
                    with font-awesome or any other icon font library -->
                <li class="nav-item has-treeview">
                    <a href="#" class="nav-link">
                        <i class="nav-icon fas fa-tachometer-alt"></i>
                        <p> Products
                            <i class="right fas fa-angle-left"></i>
                        </p>
                    </a>
                    <ul class="nav nav-treeview">
                        <li class="nav-item">
```

```
        <a href="{{ url('product/index') }}" class="nav-link">
            <i class="far fa-circle nav-icon"></i>
            <p>View Products</p>
        </a>
    </li>
    <li class="nav-item">
        <a href="{{ url('product/create') }}" class="nav-link">
            <i class="far fa-circle nav-icon"></i>
            <p>Create a Product</p>
        </a>
    </li>
</ul>
</li>
</ul>
</nav>
<!-- /.sidebar-menu -->
</div>
<!-- /.sidebar -->
</aside>
```

Viết mã cho tập tin **nav-bar.blade.php** như sau:

```
<nav class="main-header navbar navbar-expand navbar-white navbar-light">
    <!-- Left navbar links -->
    <ul class="navbar-nav">
        <li class="nav-item">
            <a class="nav-link" data-widget="pushmenu" href="#"><i class="fas fa-bars"></i></a>
        </li>
        <li class="nav-item d-none d-sm-inline-block">
            <a href="{{ url('/') }}" class="nav-link">Home</a>
        </li>
        <li class="nav-item d-none d-sm-inline-block">
            <a href="#" class="nav-link">Contact</a>
        </li>
    </ul>
    <!-- SEARCH FORM -->
    <form class="form-inline ml-3">
        <div class="input-group input-group-sm">
            <input class="form-control form-control-
navbar" type="search" placeholder="Search" aria-label="Search">
            <div class="input-group-append">
                <button class="btn btn-navbar" type="submit">
                    <i class="fas fa-search"></i>
                </button>
            </div>
        </div>
    </form>
</nav>
```

Viết mã cho tập tin **create.blade.php** trong thư mục **resources\views\product** như sau:

```
<!-- lưu tại /resources/views/product/create.blade.php -->
@extends('layout.layout')
@section('title', 'product - create new')
@section('content')
    <section class="content">
        <div class="container-fluid">
            <div class="row">
                <div class="offset-md-3 col-md-6">
                    <!-- general form elements -->
                    <div class="card card-primary">
                        <div class="card-header">
                            <h3 class="card-title">Create Product</h3>
                        </div>
                        <!-- /.card-header -->
                        <!-- form start -->
                        <form role="form" action="{{ url('product/postCreate') }}" method="post" enctype="multipart/form-data">
                            {{ csrf_field() }}
                            <div class="card-body">
                                <div class="form-group">
                                    <label for="txt-id">Product Id</label>
                                    <input type="text" class="form-control" id="txt-id" name="id" placeholder="1">
                                </div>
                                <div class="form-group">
                                    <label for="txt-name">Product Name</label>
                                    <input type="text" class="form-control" id="txt-name" name="name" placeholder="Input Product Name">
                                </div>
                                <div class="form-group">
                                    <label for="txt-price">Product Price</label>
                                    <input type="text" class="form-control" id="txt-price" name="price" placeholder="1">
                                </div>
                                <div class="form-group">
                                    <label>Description</label>
                                </div>
                            </div>
                        </form>
                    </div>
                </div>
            </div>
        </div>
    </section>
</section>
```

```

        <textarea class="form-
control" rows="3" name="description" placeholder="Enter ..."></textarea>
    </div>
    <div class="form-group">
        <label for="image">Image</label>
        <div class="input-group">
            <div class="custom-file">
                <input type="file" class="custom-file-
input" id="image" name="image">
                <label class="custom-file-
label" for="image">Choose Image</label>
            </div>
        </div>
    </div>
</div>
<!-- /.card-body -->
<div class="card-footer">
    <button type="submit" class="btn btn-
primary">Submit</button>
</div>
</form>
</div>
<!-- /.card -->
</div>
</div>
</section>
@endsection
@section('script-section')
    <script src="{ asset('plugins/bs-custom-file-input/bs-custom-file-
input.min.js') }}"></script>

    <script type="text/javascript">
        $(document).ready(function () {
            bsCustomFileInput.init();
        });
    </script>
@endsection

```

Viết mã cho tập tin **index.blade.php** như sau:

```
<!-- Lưu tại resources/views/product/index.blade.php -->
@extends('layout.layout')
@section('title', 'product index')
@section('content')
    <!-- Content Header (Page header) -->
    <section class="content-header">
        <div class="container-fluid">
            <div class="row mb-2">
                <div class="col-sm-6">
                    <h1>DataTables</h1>
                </div>
                <div class="col-sm-6">
                    <ol class="breadcrumb float-sm-right">
                        <li class="breadcrumb-item"><a href="#">Home</a></li>
                        <li class="breadcrumb-item active">DataTables</li>
                    </ol>
                </div>
            </div>
        </div><!-- /.container-fluid -->
    </section>

    <!-- Main content -->
    <section class="content">
        <div class="row">
            <div class="col-12">
                <div class="card">
                    <div class="card-header">
                        <h3 class="card-
title">DataTable with minimal features & hover style</h3>
                    </div>
                    <!-- /.card-header -->
                    <div class="card-body">
                        <table id="product" class="table table-bordered table-hover">
                            <thead>
                                <tr>
                                    <th>Product Id</th>

```



```

        <th>Product Name</th>
        <th>Price</th>
        <th>Image</th>
        <th></th>
    </tr>
</thead>
<tbody>
@foreach($products as $p)
<tr>
    <td>{{ $p->id }}</td>
    <td>{{ $p->name }}</td>
    <td>{{ $p->price }}</td>
    <td></td>

    <td class="text-right">
        <a class="btn btn-primary btn-sm" href="#">
            <i class="fas fa-folder"></i> View
        </a>
        <a class="btn btn-info btn-
sm" href="{{ url('product/update/' . $p->id) }}">
            <i class="fas fa-pencil-alt"></i> Edit
        </a>
        <a class="btn btn-danger btn-
sm" href="{{ url('product/delete/' . $p->id) }}">
            <i class="fas fa-trash"></i> Delete
        </a>
    </td>
</tr>
@endforeach
</tbody>
<tfoot>
<tr>
    <th>Product Id</th>
    <th>Product Name</th>
    <th>Price</th>
    <th>Image</th>
    <th></th>
</tr>
</tfoot>

```

```
        </table>
    </div>
    <!-- /.card-body -->
</div>
<!-- /.card -->
</div>
<!-- /.col -->
</div>
<!-- /.row -->
</section>
@endsection
@section('script-section')
    <script>
        $(function () {
            $('#product').DataTable({
                "paging": true,
                "lengthChange": false,
                "searching": false,
                "ordering": true,
                "info": true,
                "autoWidth": false,
            });
        });
    </script>
@endsection
```

## Viết mã cho tập **update.blade.php** như sau:

```
<!-- lưu tại /resources/views/product/create.blade.php -->
@extends('layout.layout')
@section('title', 'product - create new')
@section('content')
    <section class="content">
        <div class="container-fluid">
            <div class="row">
                <div class="offset-md-3 col-md-6">
                    <!-- general form elements -->
                    <div class="card card-primary">
                        <div class="card-header">
                            <h3 class="card-title">Update {{ $p->name }}</h3>
                        </div>
                        <!-- /.card-header -->
                        <!-- form start -->
                        <form role="form" action="{{ url('product/postUpdate/' . $p->id) }}" method="post" enctype="multipart/form-data">
                            {{ csrf_field() }}
                            <div class="card-body">
                                <div class="form-group">
                                    <label for="txt-id">Produc Id</label>
                                    <input type="text" class="form-control" id="txt-id" name="id" placeholder="1" value="{{ $p->id }}" readonly>
                                </div>
                                <div class="form-group">
                                    <label for="txt-name">Produc Name</label>
                                    <input type="text" class="form-control" id="txt-name" name="name" placeholder="Input Product Name" value="{{ $p->name }}">
                                </div>
                                <div class="form-group">
                                    <label for="txt-price">Produc Price</label>
                                    <input type="text" class="form-control" id="txt-price" name="price" placeholder="1" value="{{ $p->price }}">
                                </div>
                                <div class="form-group">
                                    <label>Description</label>
                                </div>
                            </div>
                        </form>
                    </div>
                </div>
            </div>
        </div>
    </section>
</section>
```

```

        <textarea class="form-
control" rows="3" name="description" placeholder="Enter ...">{{ $p-
>description }}</textarea>

    </div>
    <div class="form-group">
        <label for="image">Image</label>
        

        <div class="input-group">
            <div class="custom-file">
                <input type="file" class="custom-file-
input" id="image" name="image">

                <label class="custom-file-
label" for="image">Choose Image</label>
            </div>
        </div>
    </div>
</div>
<!-- /.card-body -->
<div class="card-footer">
    <button type="submit" class="btn btn-
primary">Submit</button>
</div>
</form>
</div>
<!-- /.card -->
</div>
</div>
</section>
@endsection
@section('script-section')
    <script src="{{ asset('plugins/bs-custom-file-input/bs-custom-file-
input.min.js') }}"></script>

    <script type="text/javascript">
        $(document).ready(function () {
            bsCustomFileInput.init();
        });
    </script>
</script-section>

```

```
</script>
@endsection
```

### 5.3. Khai báo route

Mở tập tin **web.php** trong thư mục **routes**, viết code cho tập tin này như sau:

```
<?php

/*
|-----
| 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');
});

Route::get('product/index', 'ProductController@index');
Route::get('product/create', 'ProductController@create');
Route::post('product/postCreate', 'ProductController@postCreate');
Route::get('product/update/{id}', 'ProductController@update');
Route::post('product/postUpdate/{id}', 'ProductController@postUpdate');
Route::get('product/delete/{id}', 'ProductController@delete');
```

## 6. Chạy thử ứng dụng

Từ trình duyệt, nhập: <http://localhost/4.View/public/product/index>