

Tutorial 01 to do in class – Remember to upload the repo link to Teams

FIRST COMPLETE THE ENTIRE TUTORIAL (IGNORE THE ACTIVITES) – AT THE END, COMPLETE THE PROPOSED ACTIVITIES

Before starting (create a new Laravel project):

Open your Terminal, and in a location of your choice (you can use the *xampp/htdocs/* location if you want), execute the following:

Execute in Terminal

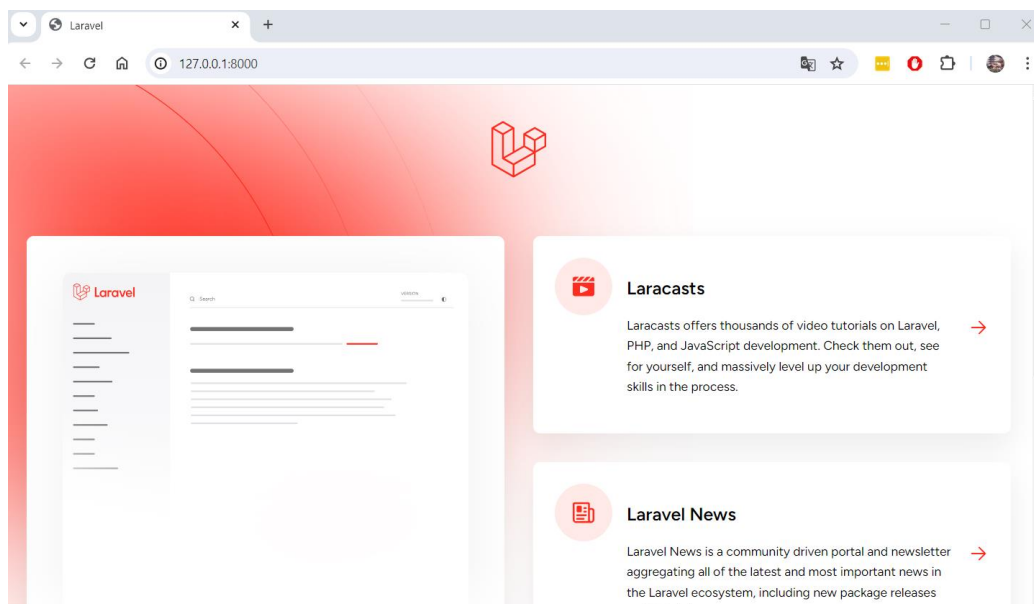
```
composer create-project laravel/laravel laravelcourse "11.*" --prefer-dist
```

The previous command creates a new Laravel 11.* project inside the *laravelcourse* folder. Next, in your Terminal, move to the *laravelcourse* folder, and run the application with the following:

Execute in Terminal

```
cd laravelcourse  
php artisan serve
```

If the installation and setup were successful, you could open the Laravel development server link in your browser (<http://127.0.0.1:8000/>). You should see your Laravel 11 application.



Laravel 11 default page.

A. A “clean” hello world version

Controller

- Go to *app/http/Controllers/* and create a file *HomeController.php* with the next content (or replace its content if the file already exists):

Add Entire Code

```
<?php

namespace App\Http\Controllers;

use Illuminate\View\View;

class HomeController extends Controller
{
    public function index(): View
    {
        return view('home.index');
    }
}
```

Views

- Go to *resources/views/* and create a folder *layouts*
- Go to *resources/views/layouts* and create a file *app.blade.php* with the following content:

Add Entire Code

```
<!doctype html>
<html lang="en">
<head>
    <meta charset="utf-8" />
    <meta name="viewport" content="width=device-width, initial-scale=1" />
    <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0-alpha1/dist/css/bootstrap.min.css"
rel="stylesheet" crossorigin="anonymous" />
    <link href="{{ asset('/css/app.css') }}" rel="stylesheet" />
    <title>@yield('title', 'Online Store')</title>
```

```

</head>
<body>
  <!-- header -->
  <nav class="navbar navbar-expand-lg navbar-dark bg-secondary py-4">
    <div class="container">
      <a class="navbar-brand" href="#">Online Store</a>
      <button class="navbar-toggler" type="button" data-bs-toggle="collapse" data-bs-
target="#navbarNavAltMarkup"
      aria-controls="navbarNavAltMarkup" aria-expanded="false" aria-label="Toggle navigation">
        <span class="navbar-toggler-icon"> </span>
      </button>
      <div class="collapse navbar-collapse" id="navbarNavAltMarkup">
        <div class="navbar-nav ms-auto">
          <a class="nav-link active" href="#">Home</a>
          <a class="nav-link active" href="#">About</a>
        </div>
      </div>
    </div>
  </nav>

  <header class="masthead bg-primary text-white text-center py-4">
    <div class="container d-flex align-items-center flex-column">
      <h2>@yield('subtitle', 'A Laravel EAFIT App')</h2>
    </div>
  </header>
  <!-- header -->

  <div class="container my-4">
    @yield('content')
  </div>

  <!-- footer -->
  <div class="copyright py-4 text-center text-white">
    <div class="container">
      <small>
        Copyright - <a class="text-reset fw-bold text-decoration-none" target="_blank"
        href="https://twitter.com/danielgarax">

```

```

        Daniel Correa
    </a>
</small>
</div>
</div>
<!-- footer -->

<script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0-alpha1/dist/js/bootstrap.bundle.min.js"
crossorigin="anonymous">
</script>
</body>
</html>

```

- Go to *resources/views/* and create a folder *home*
- Go to *resources/views/home* and create a file *index.blade.php* with the following content:

Add Entire Code

```

@extends('layouts.app')
@section('title', 'Home Page - Online Store')
@section('content')
<div class="text-center">
    Welcome to the application
</div>
@endsection

```

Routes

- In *routes/web.php*, make the following changes in **bold**.

Modify Bold Code

```

...
Route::get('/', function () {
    return view('welcome');
});
Route::get('/', 'App\Http\Controllers\HomeController@index')->name("home.index");

```

CSS

- Go to *public/* and create a folder *css*
- Go to *public/css* and create a file *app.css* with the following content:

Add Entire Code

```
.bg-secondary {  
  background-color: #2c3e50 !important;  
}  
  
.copyright {  
  background-color: #1a252f;  
}  
  
.bg-primary {  
  background-color: #1abc9c !important;  
}  
  
nav{  
  font-weight: 700;  
}  
  
.img-card{  
  height: 18vw;  
  object-fit: cover;  
}
```

Run the application

In the Terminal, go to the project directory, and execute the following:

Execute in Terminal

```
php artisan serve
```

You should see the application running.

A Laravel EAFIT App

Welcome to the application

B. An About page

Views

- Go to *resources/views/home* and create a file *about.blade.php* with the following content:

Add Entire Code

```
@extends('layouts.app')
@section('title', $title)
@section('subtitle', $subtitle)
@section('content')
<div class="container">
  <div class="row">
    <div class="col-lg-4 ms-auto">
      <p class="lead">{{ $description }}</p>
    </div>
    <div class="col-lg-4 me-auto">
      <p class="lead">{{ $author }}</p>
    </div>
  </div>
</div>
</div>
@endsection
```

Updating links in Header

Now that we have the proper routes, controller, and views, let's include the links in the header. In *resources/views/layouts/app.blade.php*, make the following changes in **bold**.

Modify Bold Code

```
<!doctype html>
...
<body>
<!-- header -->
<nav class="navbar navbar-expand-lg navbar-dark bg-secondary py-4">
  <div class="container">
    <a class="navbar-brand" href="{{ route('home.index') }}">Online Store</a>
```

```

    <button class="navbar-toggler" type="button" data-bs-toggle="collapse" data-bs-
target="#navbarNavAltMarkup"
    aria-controls="navbarNavAltMarkup" aria-expanded="false" aria-label="Toggle navigation">
    <span class="navbar-toggler-icon"></span>
</button>
<div class="collapse navbar-collapse" id="navbarNavAltMarkup">
    <div class="navbar-nav ms-auto">
        <a class="nav-link active" href="{{ route('home.index') }}">Home</a>
        <a class="nav-link active" href="{{ route('home.about') }}">About</a>
    </div>
</div>
</div>
</nav>
...

```

Routes

- In *routes/web.php*, make the following changes in **bold**.

Modify Bold Code

```

...
Route::get('/', 'App\Http\Controllers\HomeController@index')->name("home.index");
Route::get('/about', function () {
    $data1 = "About us - Online Store";
    $data2 = "About us";
    $description = "This is an about page ...";
    $author = "Developed by: Your Name";
    return view('home.about')->with("title", $data1)
        ->with("subtitle", $data2)
        ->with("description", $description)
        ->with("author", $author);
})->name("home.about");

```

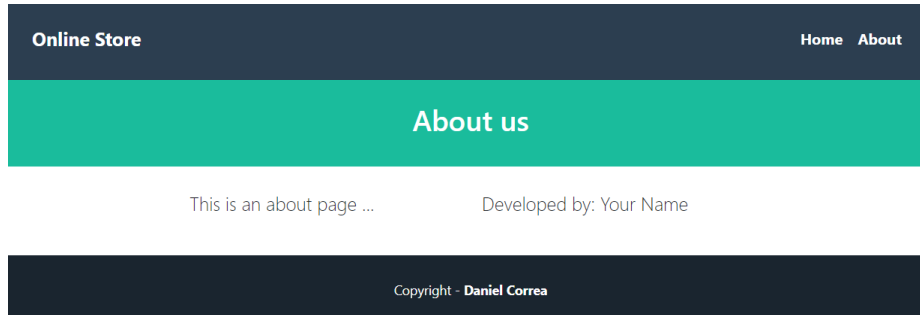
Run the application

In the Terminal, go to the project directory, and execute the following:

Execute in Terminal

```
php artisan serve
```

Click the “about link” in the header, and you should see the application running.



Activity 1

- Take a look of the previous routes. Do you have any comment? We will discuss it the next class.

Activity 2

- Create a “/contact” section in which you display the application email, address, and phone number. Use fake information.

C. Show products

Controller

- Go to *app/Http/Controllers* and create a file *ProductController.php* with the following content:

Add Entire Code

```
<?php

namespace App\Http\Controllers;

use Illuminate\Http\Request;
use Illuminate\View\View;

class ProductController extends Controller
{
    public static $products = [
        ["id"=>"1", "name"=>"TV", "description"=>"Best TV"],
        ["id"=>"2", "name"=>"iPhone", "description"=>"Best iPhone"],
        ["id"=>"3", "name"=>"Chromecast", "description"=>"Best Chromecast"],
        ["id"=>"4", "name"=>"Glasses", "description"=>"Best Glasses"]
    ];

    public function index(): View
    {
        $viewData = [];
        $viewData["title"] = "Products - Online Store";
        $viewData["subtitle"] = "List of products";
        $viewData["products"] = ProductController::$products;
        return view('product.index')->with("viewData", $viewData);
    }

    public function show(string $id) : View
    {
        $viewData = [];
        $product = ProductController::$products[$id-1];
```

```

    $viewData["title"] = $product["name"]." - Online Store";
    $viewData["subtitle"] = $product["name"]." - Product information";
    $viewData["product"] = $product;
    return view('product.show')->with("viewData", $viewData);
}
}

```

Product index view

In *resources/views/*, create a subfolder *product*. Then, in *resources/views/product*, create a new file *index.blade.php* and fill it with the following code.

Add Entire Code

```

@extends('layouts.app')
@section('title', $viewData["title"])
@section('subtitle', $viewData["subtitle"])
@section('content')
<div class="row">
    @foreach ($viewData["products"] as $product)
    <div class="col-md-4 col-lg-3 mb-2">
        <div class="card">
            
            <div class="card-body text-center">
                <a href="{{ route('product.show', ['id'=> $product["id"]]) }}"
                    class="btn bg-primary text-white">{{ $product["name"] }}</a>
            </div>
        </div>
    </div>
    </div>
    @endforeach
</div>
@endsection

```

Product show view

In *resources/views/product*, create a new file *show.blade.php* and fill it with the following code.

Add Entire Code

```

@extends('layouts.app')
@section('title', $viewData["title"])

```

```

@section('subtitle', $viewData["subtitle"])
@section('content')
<div class="card mb-3">
  <div class="row g-0">
    <div class="col-md-4">
      
    </div>
    <div class="col-md-8">
      <div class="card-body">
        <h5 class="card-title">
          {{ $viewData["product"]["name"] }}
        </h5>
        <p class="card-text">{{ $viewData["product"]["description"] }}</p>
      </div>
    </div>
  </div>
</div>
</div>

```

Modifying routes

In *routes/web.php*, make the following changes in **bold**.

Modify Bold Code

```

...
Route::get('/products', 'App\Http\Controllers\ProductController@index')->name("product.index");
Route::get('/products/{id}', 'App\Http\Controllers\ProductController@show')->name("product.show");

```

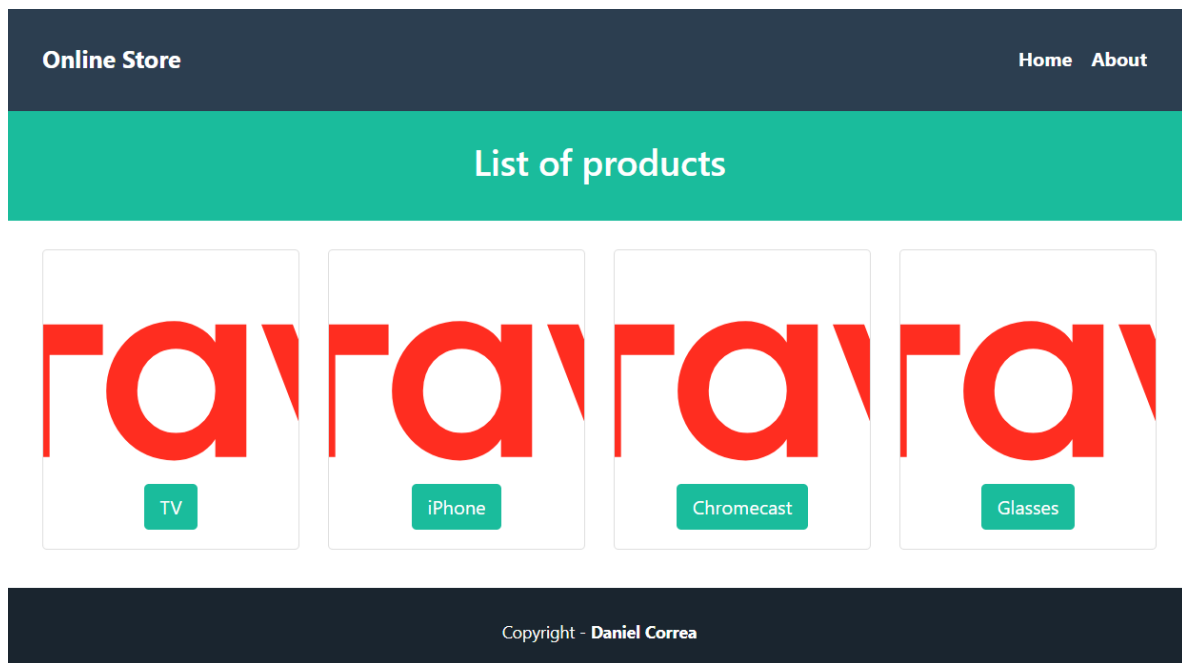
Run the application

In the Terminal, go to the project directory, and execute the following:

Execute in Terminal

```
php artisan serve
```

Go to the ("/products") route and you should see the application running.



You can also click a specific product to see its information.

Activity 3

- Add the ("/products") route as a new menu option (in the header navbar).

Activity 4

- Add prices for each product and display the information in the product.show view.

Activity 5

- Modify the show method. If the product number entered by the URL is not valid, redirect the user to the home page ("home.index") route.
<https://laravel.com/docs/11.x/responses#redirecting-named-routes>. Be careful, you should include this in the method response: *(View | RedirectResponse)*. And include the next code at the top of the file *use Illuminate\Http\RedirectResponse;*

Activity 6

- Add a conditional in the "product.show" view. If the price of a product is greater than 100, display the product name in red <https://laravel.com/docs/11.x/blade#if-statements>.

D. Product creation (simulation)

Controller

- In *app/Http/Controllers/ProductController.php*, make the following changes in **bold**.

Modify Bold Code

```
...

public function create(): View
{
    $viewData = []; //to be sent to the view
    $viewData["title"] = "Create product";

    return view('product.create')->with("viewData",$viewData);
}

public function save(Request $request)
{
    $request->validate([
        "name" => "required",
        "price" => "required"
    ]);
    dd($request->all());
    //here will be the code to call the model and save it to the database
}
}
```

Routes

- In *routes/web.php*, make the following changes in **bold**. (check the route order, it matters).

Modify Bold Code

```
...
Route::get('/products', 'App\Http\Controllers\ProductController@index')->name("product.index");
Route::get('/products/create', 'App\Http\Controllers\ProductController@create')->name("product.create");
Route::post('/products/save', 'App\Http\Controllers\ProductController@save')->name("product.save");
Route::get('/products/{id}', 'App\Http\Controllers\ProductController@show')->name("product.show");
```

Views

- Go to `resources/views/product`, create a file `create.blade.php` with the next content:

Add Entire Code

```
@extends('layouts.app')
@section('title', $viewData['title'])
@section('content')
<div class="container">
    <div class="row justify-content-center">
        <div class="col-md-8">
            <div class="card">
                <div class="card-header">Create product</div>
                <div class="card-body">
                    @if($errors->any())
                        <ul id="errors" class="alert alert-danger list-unstyled">
                            @foreach($errors->all() as $error)
                                <li>{{ $error }}</li>
                            @endforeach
                        </ul>
                    @endif

                    <form method="POST" action="{{ route('product.save') }}">
                        @csrf
                        <input type="text" class="form-control mb-2" placeholder="Enter name" name="name"
value="{{ old('name') }}" />
                        <input type="text" class="form-control mb-2" placeholder="Enter price" name="price"
value="{{ old('price') }}" />
                        <input type="submit" class="btn btn-primary" value="Send" />
                    </form>
                </div>
            </div>
        </div>
    </div>
</div>
</div>
</div>
</div>
@endsection
```

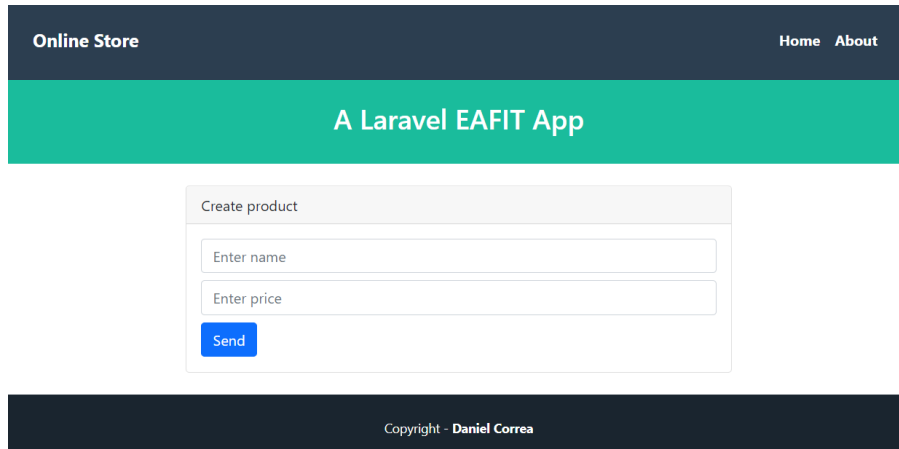
Run the application

In the Terminal, go to the project directory, and execute the following:

Execute in Terminal

```
php artisan serve
```

Go to the (“/products/create”) route and you should see the application running.



The screenshot displays a web application interface. At the top, a dark blue header contains the text 'Online Store' on the left and 'Home' and 'About' links on the right. Below the header is a green banner with the text 'A Laravel EAFIT App'. Underneath the banner is a 'Create product' form. The form has two input fields: 'Enter name' and 'Enter price', and a blue 'Send' button. At the bottom of the page, a dark blue footer contains the text 'Copyright - Daniel Correa'.

Activity 7

- Try to understand the previous code. Add a new product but leave the name empty (and click send). Then, leave the price empty. Then, enter the two fields.

Activity 8

- Modify the previous code to only allow numbers greater than zero for the prices. DO NOT USE ifs. <https://laravel.com/docs/11.x/validation#available-validation-rules>.

Activity 9

- If the info entered by the form is valid. Then display a message saying, “Product created”. **Note:** create a new view (which uses the layout system).

Activity 10

- Add a new menu option in the header (app layout), that links to the “/products/create” page.

Note: create a repo with all this code (called LaravelTutorials) and upload the repo link to the corresponding Teams Assignment.