Laravel controllers routes views

PHP WebDevelopment 2021

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Task

Task

- List the pages of VSS Students` System
- Setup the page structure
- Develop the navigation

Intro

Intro

To access the application use the url -

localhost/path-to-your-project/public

The script in ...public/index.php is executed and the home page of the application is rendered in the browser.

Action flow

Врaца Софтуер Общество

step 1

- in app/routes/web.php -
  - an obligatory route declaration is defined

```
Route::get('/', function () {
            return view('welcome');
});
```

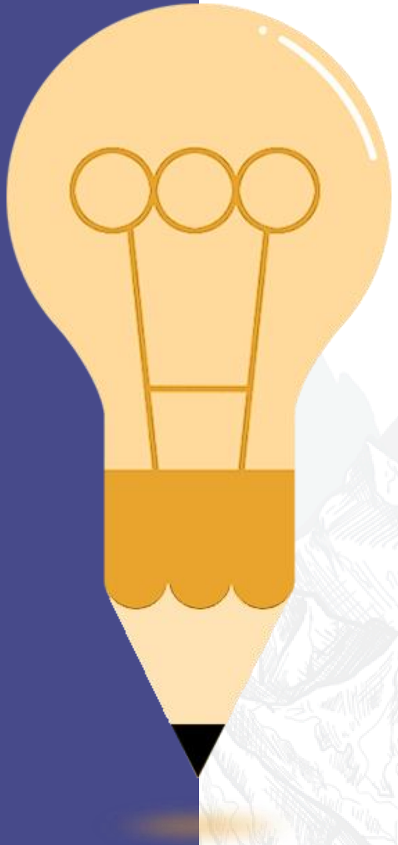
that allows this view to be rendered when the '/' end-point is accessed.

Action flow

Враца Софтуер Общество

step 2

- in app/resources/views/welcome.blade.php -
  - a view file is created, holding the content to be displayed in the browser`s window.



Action flow - REMEMBER

Враца Софтуер Общество

return view('welcome');

is the

welcome.blade.php file, that resides in **resources/view** folder of the project

Blade engine

Blade engine

Blade is the simple, yet powerful templating engine provided with Laravel.

Unlike other popular PHP templating engines, **Blade does not restrict** you from using plain PHP code in your views.

All Blade views are **compiled into plain PHP** code and **cached until** they are modified.

Blade view files use the **.blade.php** file extension and are typically **stored** in the **resources/views** directory.

PHP Artisan

PHP Artisan

Artisan is the command-line interface included with Laravel. It provides a number of helpful commands that can assist you while you build your application.

To view a list of all available Artisan commands

```
php artisan list
```

Every command has a "help" screen with full info for command`s options and arguments

```
php artisan help command-name
```

Controllers

Controllers

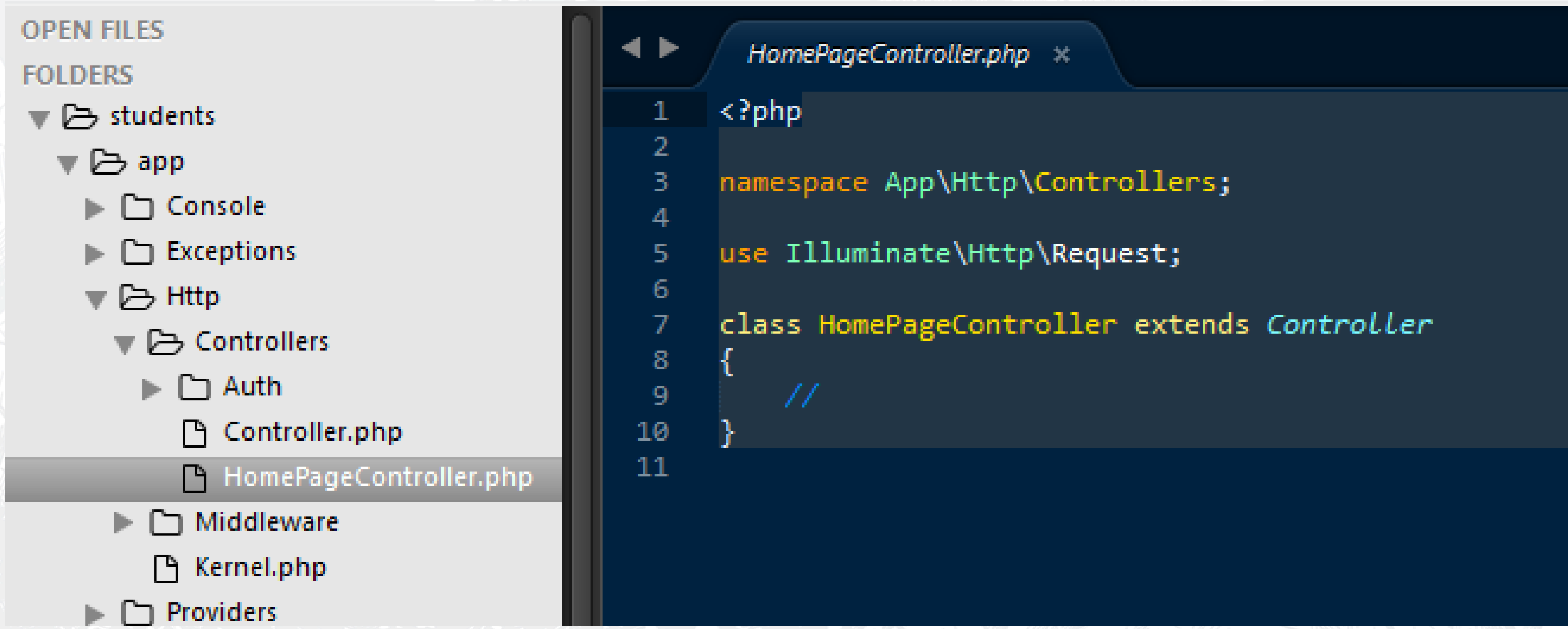
Controllers group related request handling logic into a single class.

They are stored in the app/Http/Controllers directory.

Controllers

To create a plain controller execute the command

```
php artisan make:controller HomePageController
```



```php
<?php

namespace App\Http\Controllers;

use Illuminate\Http\Request;

class HomePageController extends Controller
{
    //
}

```

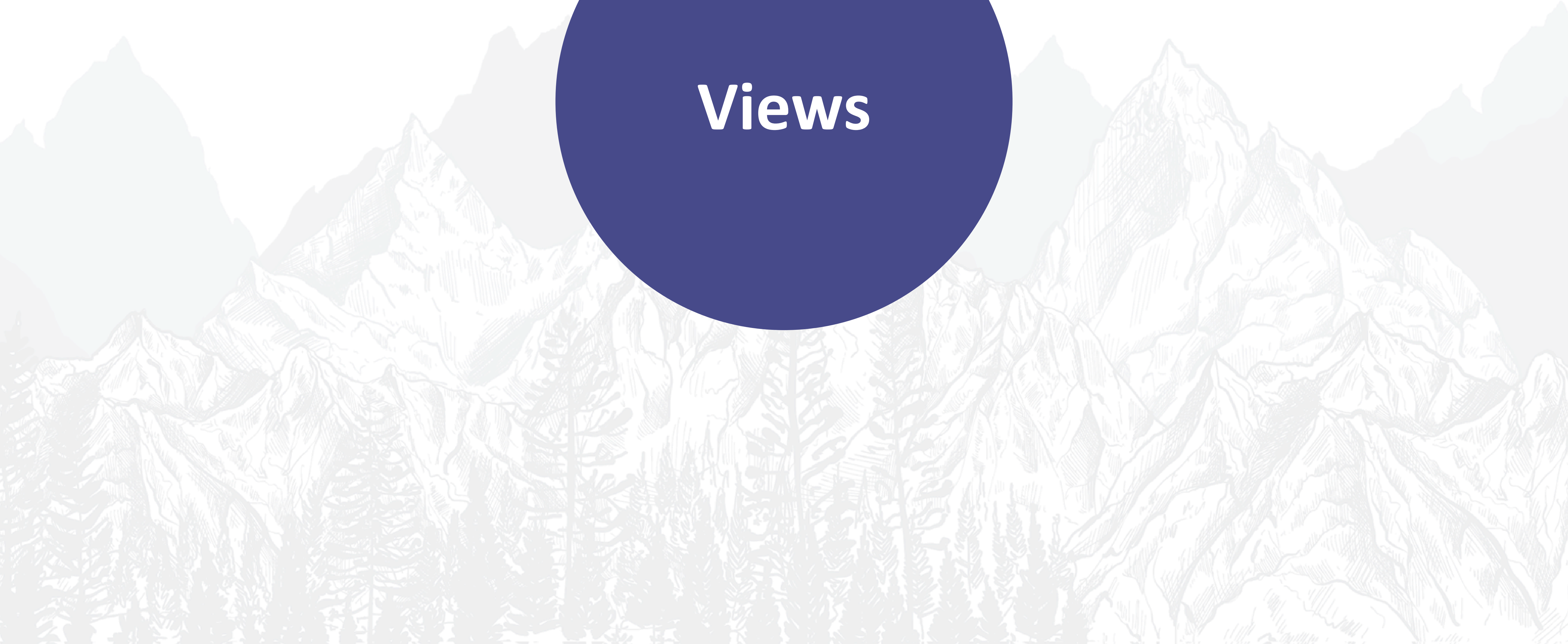
Controllers

First task of the newly created HomePageController is to render the home page -

```
public function index() {

    return view(‘home_page’);

}
```



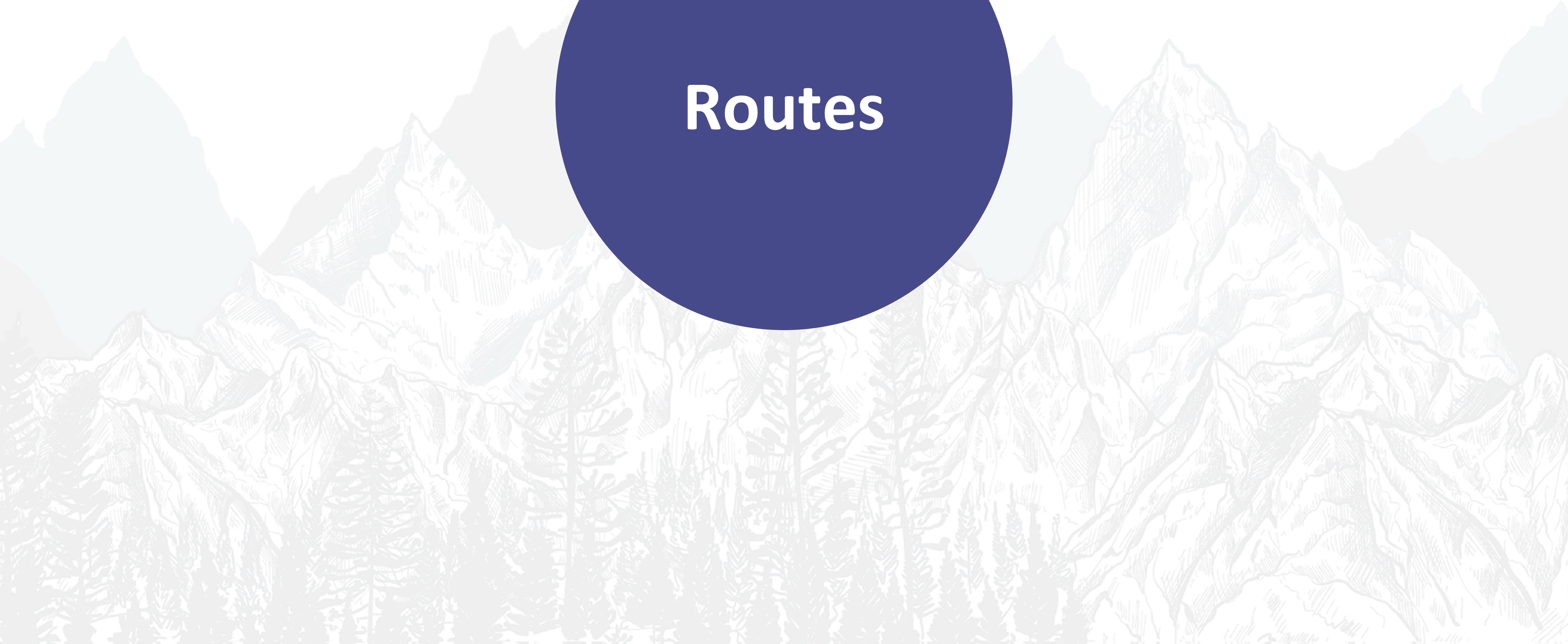
Views

Views

In *app/resources/views* create

home_page.blade.php

This file will hold the content that will be displayed in the browser to the user who visits the Home page.



Routes

Routes

In **routes/web.php** we have to allow the rendering of home page to happen when accessing the **'/'** end-point

```
use App\Http\Controllers\HomePageController;
//.....
Route::get('/', [HomePageController::class, 'index']);
```

With this declaration we allow the execution of the **index** method of the **HomeController (HomePageController in the example above)**.

Routes

Named routes

```
Route::get('/',[HomePageController::class,'index'])->name('home');
```

Then we can easily create navigation links

```
<a href={{ route('home') }}> Home </a>

where
{{ route('home') }} is instead of <?php echo route('home') ?>
```

master.blade.php

master.blade.php

When there is repeated code in a number of views we can create a template file.

The repeated code is placed within this template file and by using
@yield('section_name')
we call the unique lines of code for every view that will extend tke template.

We can yield styles, js, html etc.

master.blade.php

*The template files are **usually named***

- *master.blade.php*
- *app.blade.php*
- *admin.blade.php*
- *etc*

and are placed in a layouts folder /if there is more than one template/.

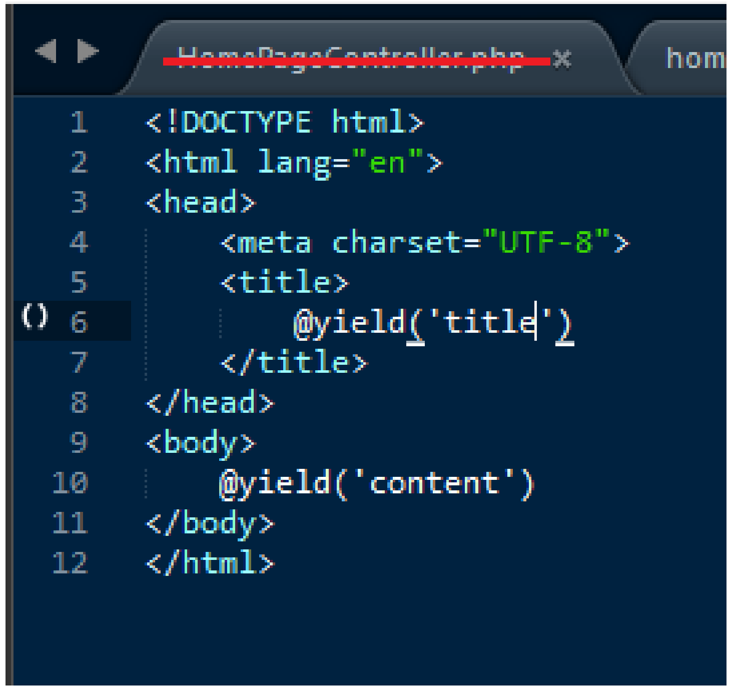
@extends('master')

Врaца Софтуер Общество

Every view.blade.php ***starts*** *with the*

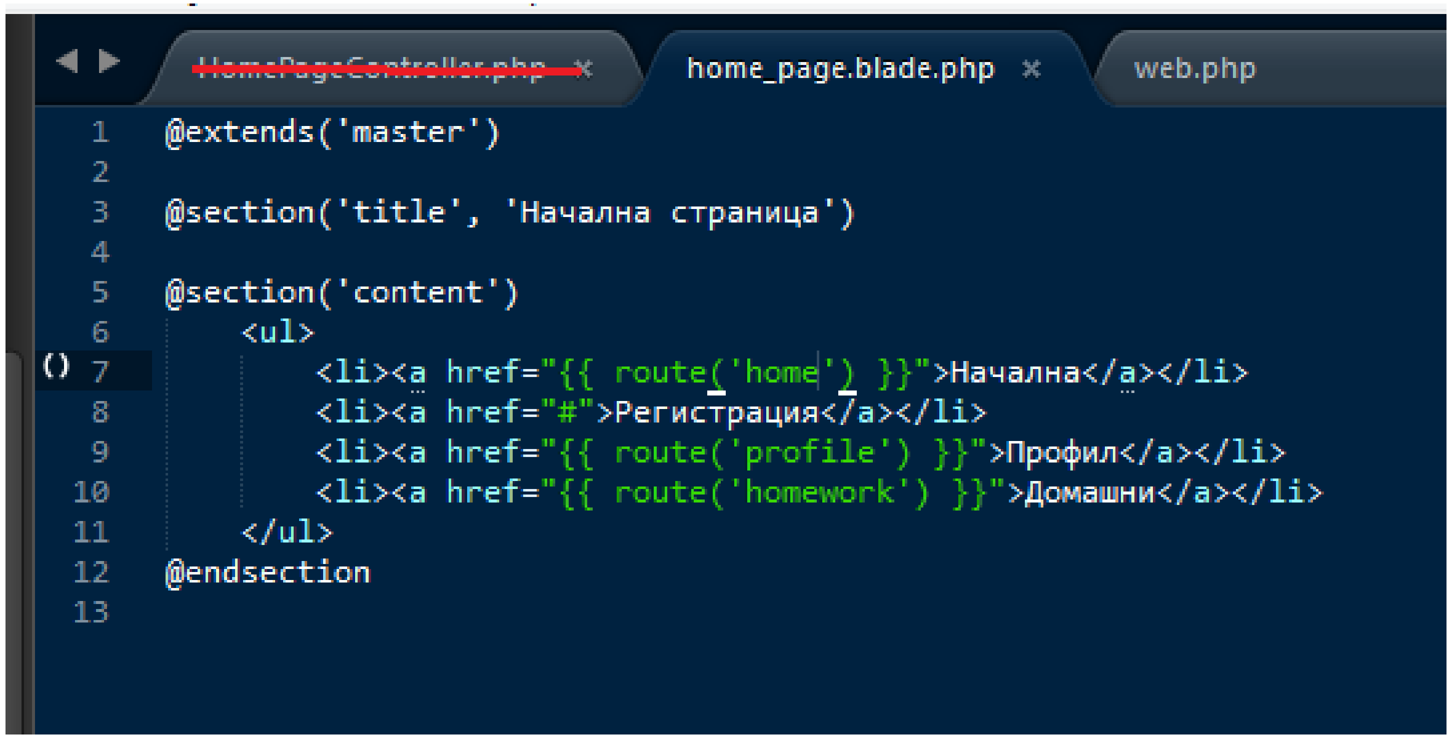
@extends('template-name') *declaration,*

if it is not an independent view, but extends a template.



```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <title>
        @yield('title')
    </title>
</head>
<body>
    @yield('content')
</body>
</html>
```

master.blade.php



```
@extends('master')

@section('title', 'Начална страница')

@section('content')
    <ul>
        <li><a href="{{ route('home') }}">Начална</a></li>
        <li><a href="#">Регистрация</a></li>
        <li><a href="{{ route('profile') }}">Профил</a></li>
        <li><a href="{{ route('homework') }}">Домашни</a></li>
    </ul>
@endsection
```

home_page.blade.php

Organise Blade files

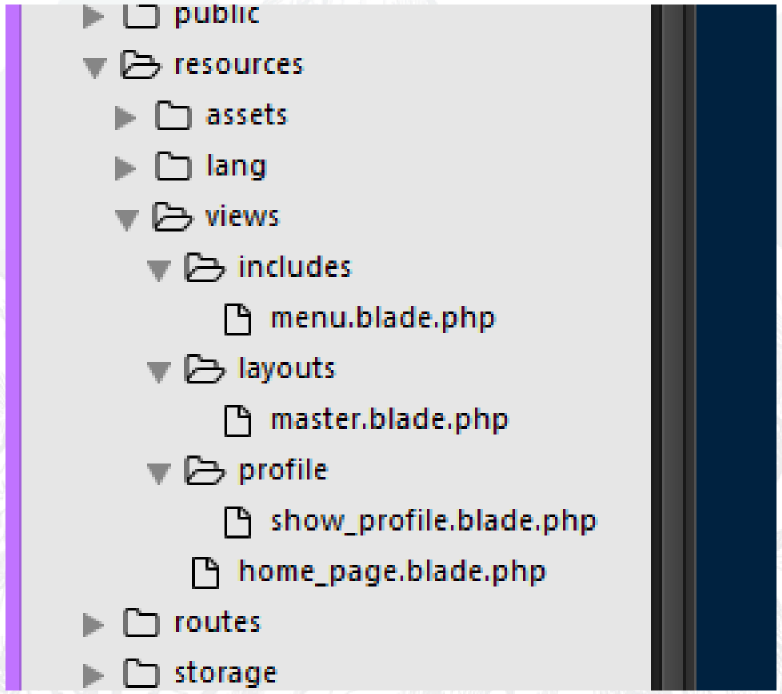
Organise Blade files

We can separate repeated pieces of codes in separate blade files.

Organise them in includes folders.

And include them where needed by

```
@extends('template-folder.template-name')
@extends('layouts.master')
```


```
▶ public
▼ resources
    ▶ assets
    ▶ lang
    ▼ views
        ▼ includes
              menu.blade.php
        ▼ layouts
              master.blade.php
        ▼ profile
              show_profile.blade.php
          home_page.blade.php
▶ routes
▶ storage
```

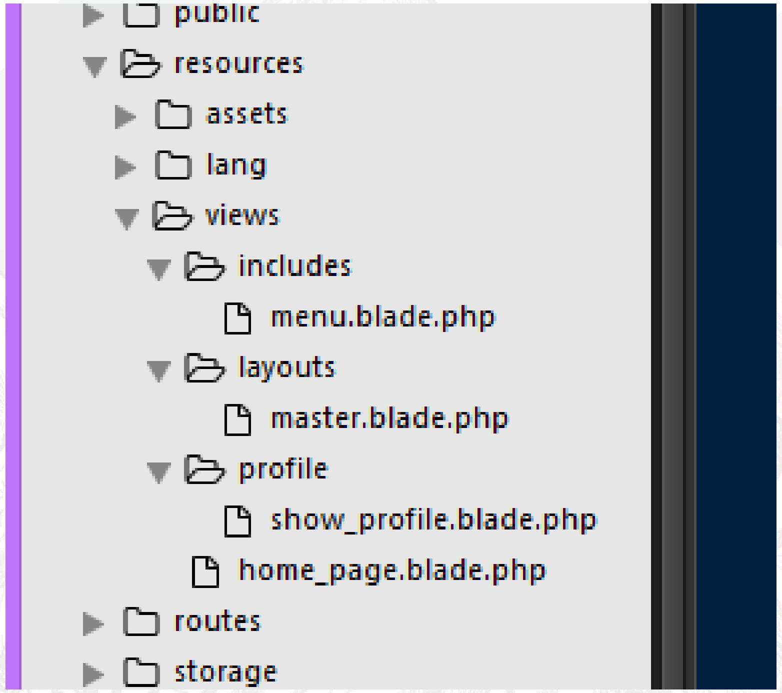
Organise Blade files

It is very probable that your project will have or will expand to lots of view files.

It is a good practise to organise them in folders.

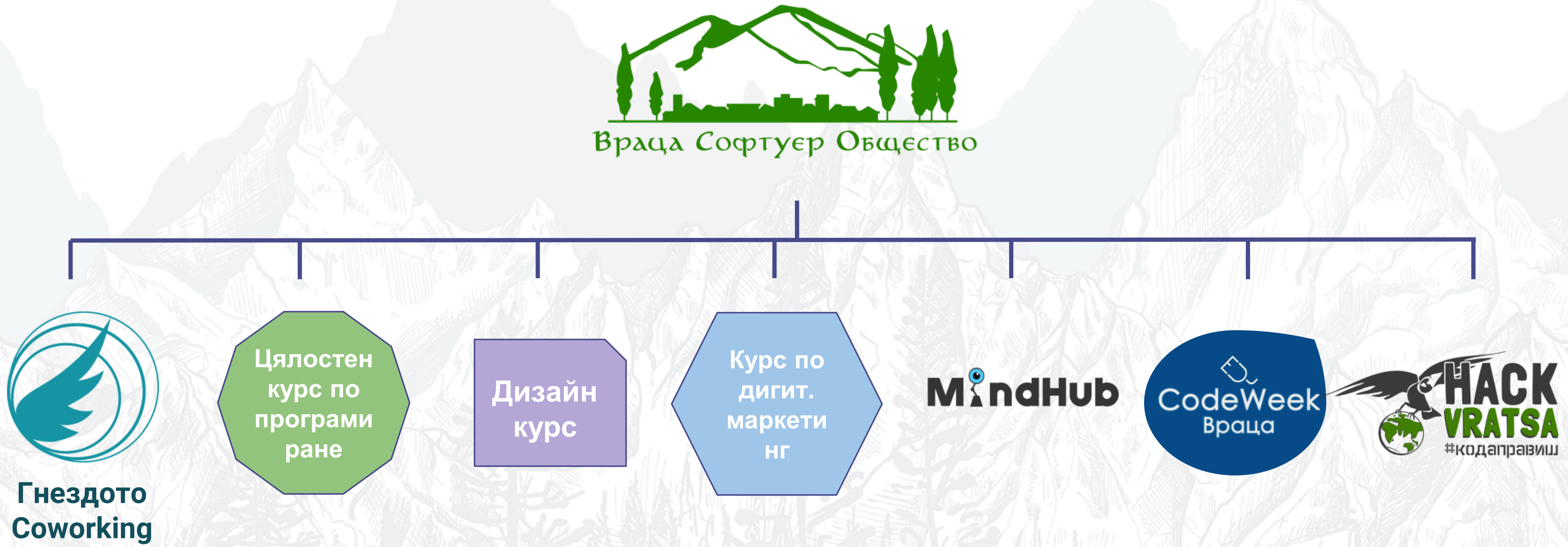
If a template is in a folder - it is referred by

```
@include('folder.filename')
@includes('includes.menu')
```



```
▶ public
▼ resources
  ▶ assets
  ▶ lang
  ▼ views
    ▼ includes
        menu.blade.php
    ▼ layouts
        master.blade.php
    ▼ profile
        show_profile.blade.php
      home_page.blade.php
▶ routes
▶ storage
```

Questions?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