Laravel Authentication Middleware

PHP WebDevelopment 2019

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Learn to Search in Internet

- The course assignments require to search in Internet
  - This is an important part of the learning process
  - Some exercises intentionally have no hints
- Learn to find solutions!
  - Software development includes everyday searching and learning
  - No excuses, just learn to study!
  - Developers learn new technologies, tools, languages every day!

Frontend Scaffolding

Frontend Scaffolding

Frontend Scaffolding

While Laravel does not dictate which JavaScript or CSS pre-processors you use,

it does provide a basic starting point using Bootstrap, React, and / or Vue that will be helpful for many applications.

Frontend Scaffolding

- The Bootstrap and Vue are located in the laravel/ui Composer package
  - which may be installed by

```
composer require laravel/ui:^2.4
```

Frontend Scaffolding

- then you may install the frontend scaffolding of your choice using the ui Artisan command

```
// Generate basic scaffolding...
php artisan ui bootstrap
php artisan ui vue
php artisan ui react
```

- run npm install and npm run dev

Frontend Scaffolding

- to generate Laravel Auth scaffolding

```
// Generate login / registration scaffolding...
php artisan ui bootstrap --auth
php artisan ui vue --auth
php artisan ui react --auth
```

Authentication

Authentication

Authentication

Laravel makes implementing authentication very simple.

In fact, almost everything is configured for you out of the box.

The authentication configuration file is located at config/auth.php, which contains several well documented options for tweaking the behavior of the authentication services.

Authentication

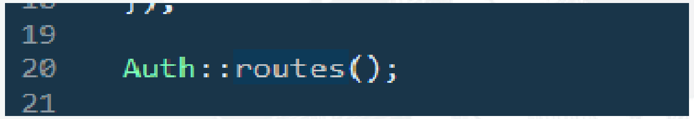
- to generate Laravel Auth scaffolding

```
// Generate login / registration scaffolding...
php artisan ui bootstrap --auth
php artisan ui vue --auth
php artisan ui react --auth
```

Authentication

This command creates -

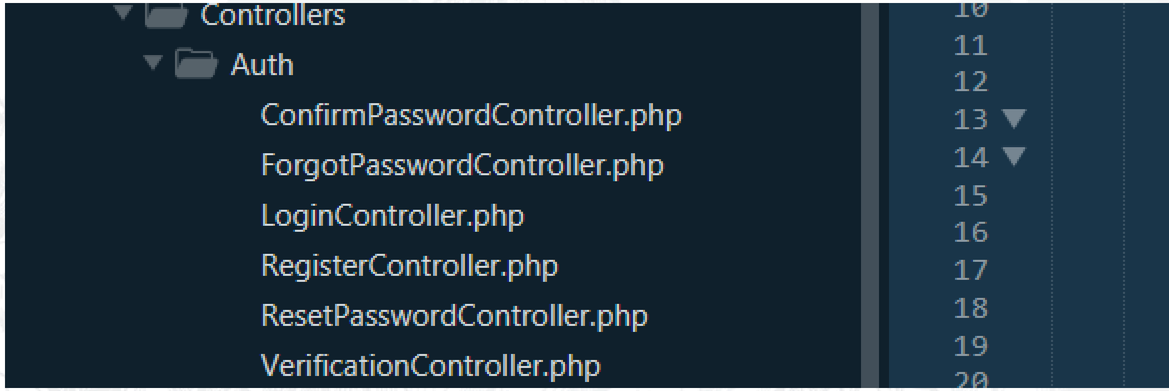
- auth routes



```
});

Auth::routes();
```

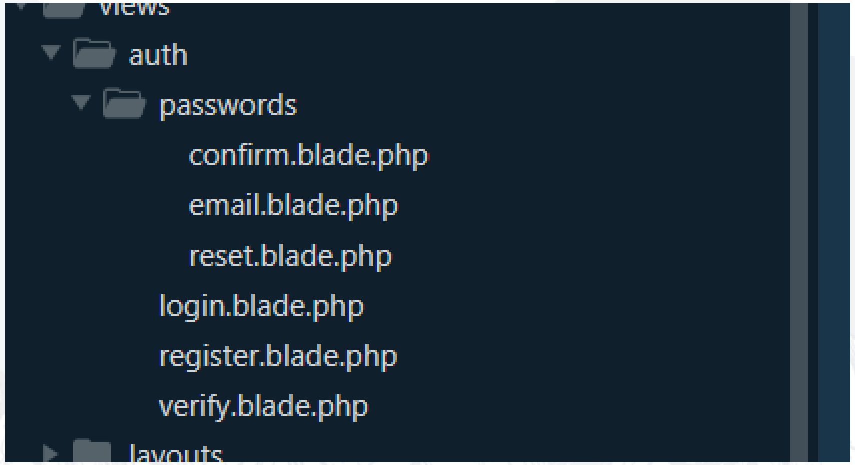
- auth controllers



```
▼ Controllers
  ▼ Auth
      ConfirmPasswordController.php
      ForgotPasswordController.php
      LoginController.php
      RegisterController.php
      ResetPasswordController.php
      VerificationController.php
```

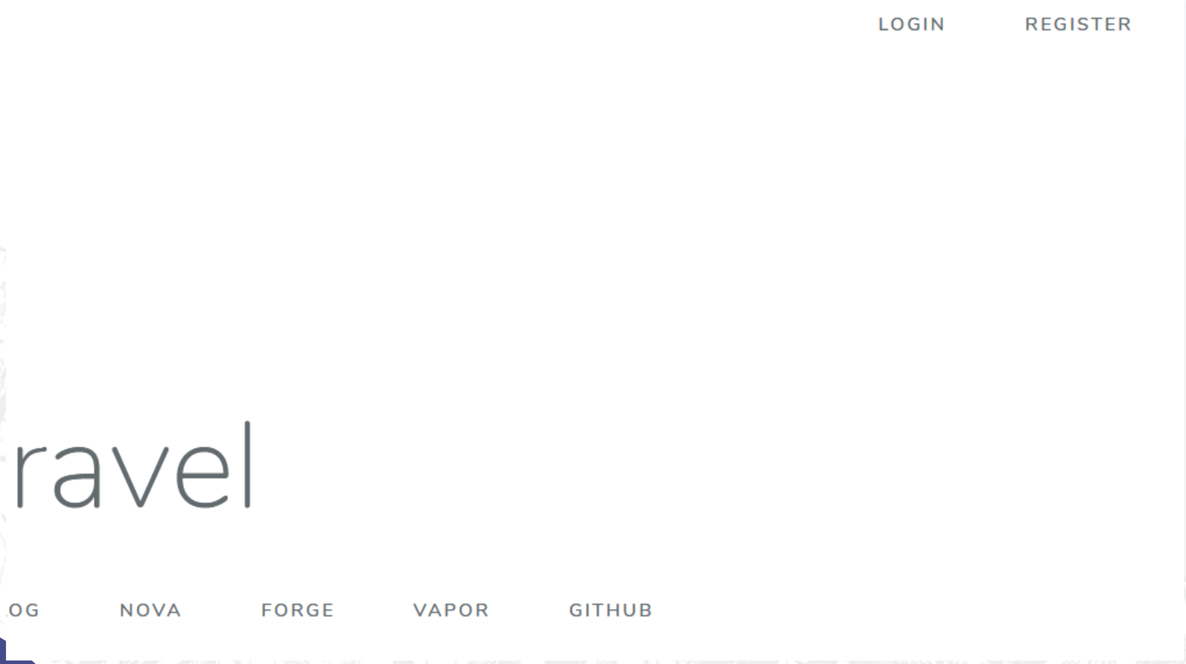
Authentication

- auth views - backend



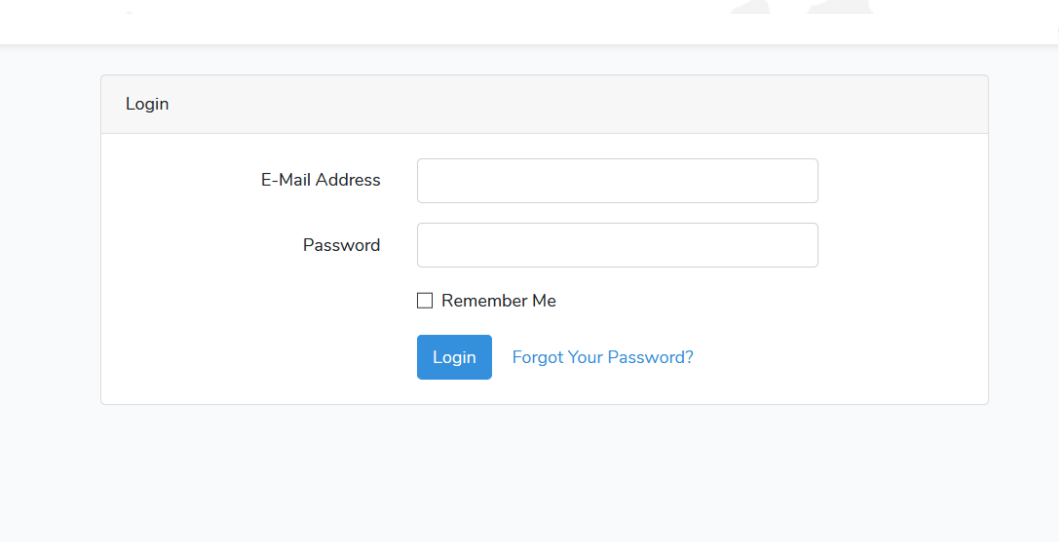
```
views
  auth
    passwords
      confirm.blade.php
      email.blade.php
      reset.blade.php
    login.blade.php
    register.blade.php
    verify.blade.php
  layouts
```

- frontend



Authentication

- frontend auth views

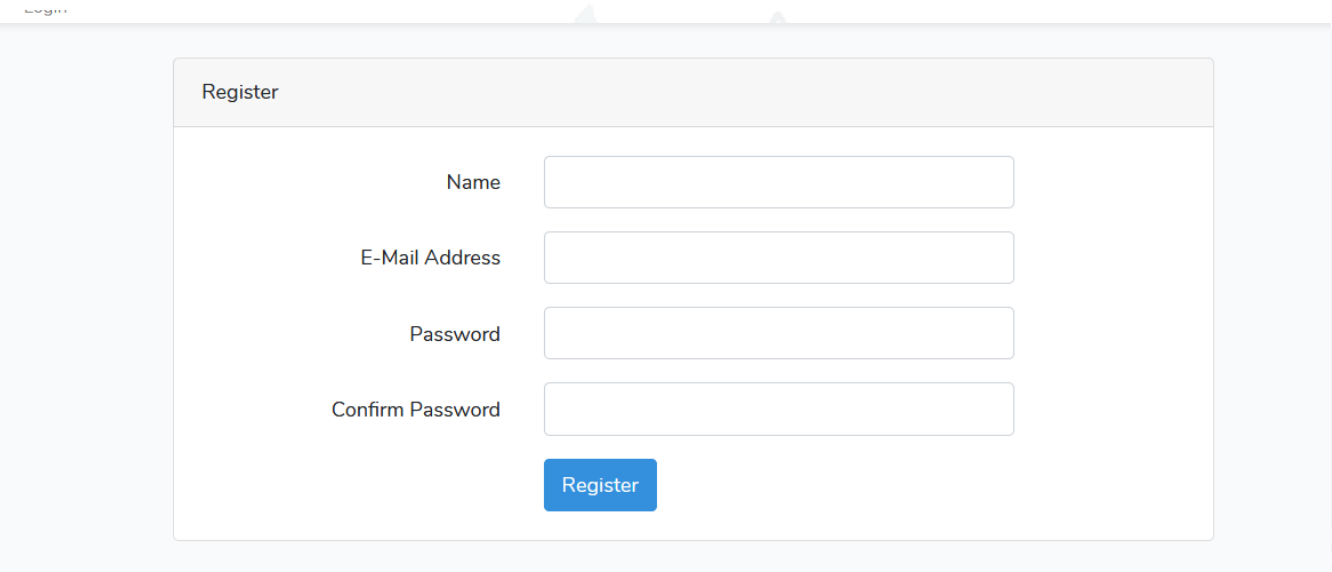


Login

E-Mail Address

Password

□ Remember Me



Register

Name

E-Mail Address

Password

Confirm Password

Authentication

Authentication

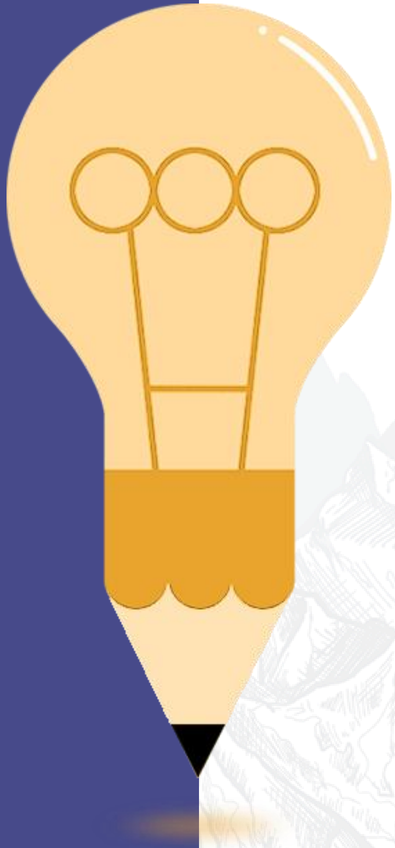
The auth system is fully customisable.

You can change -

- the user login/registration
- auth driver
- design

auth customisations

Customising auth logic flow



If you need to change customisation logic you do not change the methods in AuthenticatesUsers trait.

You redefine auth properties and methods in the appropriate controllers as shown in the documentation

Authentication

Authentication

Retrieving the authenticated user

You may access the authenticated user via the Auth facade - always place on top of the file, holding the class definition -

```
use Illuminate\Support\Facades\Auth;
```

Authentication

- in the controller or model -

```
// Get the currently authenticated user...
$user = Auth::user();


// Get the currently authenticated user's ID...
$id = Auth::id();
```

Authentication

- Once a user is authenticated, you may access the authenticated user
    - via an Illuminate\Http\Request instance.
    - Remember, type-hinted classes will automatically be injected into your controller methods:

```
public function update(Request $request)
    {
        // $request->user() returns an instance of the authenticated user...
    }
```

Authentication

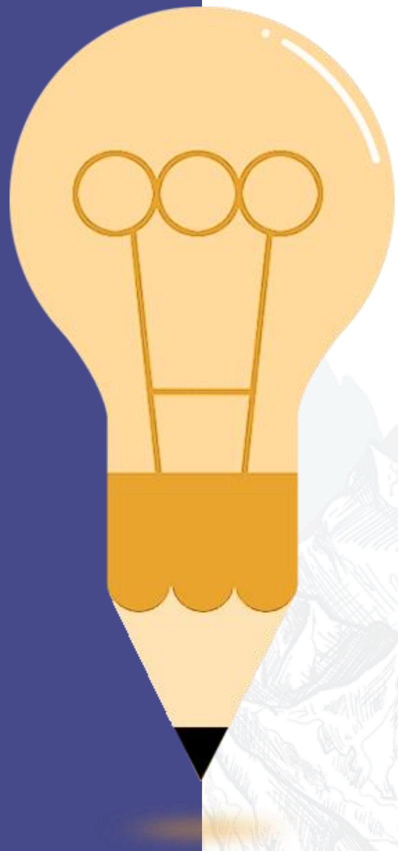
- To determine if the user is already logged into your application -

```
    if( Auth::check() ) {

       // The user is logged in…

    }
```

Determining If The Current User Is Authenticated



Even though it is possible to determine if a user is authenticated using the check method, you will typically use a middleware to verify that the user is authenticated before allowing the user access to certain routes / controllers.

Auth Middleware

- To allow only authenticated users to access a given route.

```
Route::get('profile', function () {
    // Only authenticated users may enter...
})->middleware('auth');
```

Auth Middleware

- Protect all controller methods by calling a middleware in controller`s constructor

```
public function __construct()
{
    $this->middleware('auth');
}
```

Auth Middleware

Laravel ships with an auth middleware, which is defined at Illuminate\Auth\Middleware\Authenticate. Since this middleware is already registered in your HTTP kernel, all you need to do is attach the middleware to a route definition(s)

Auth Middleware

- Redirect unauthenticated users to named route

```
protected function redirectTo($request)
{
    return route('login');
}
```

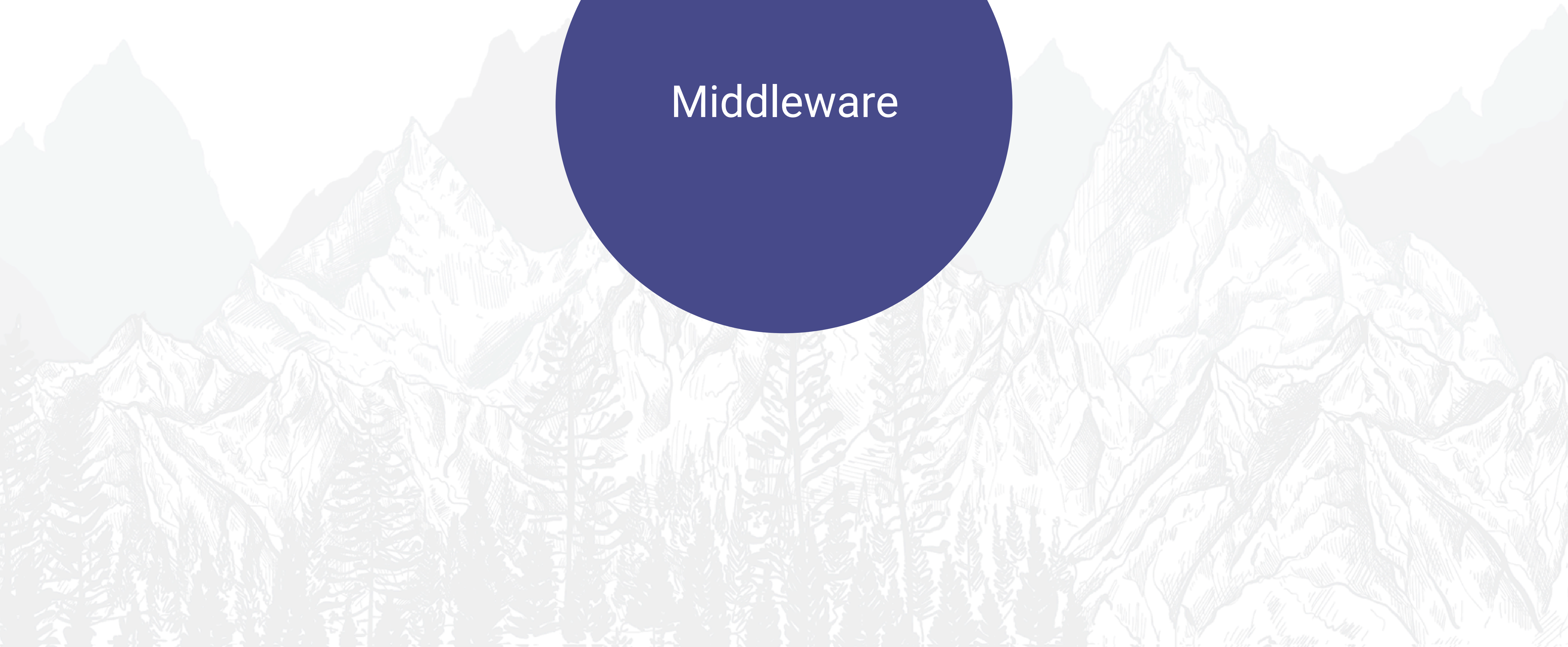
modify this behavior by updating the redirectTo function in your app/Http/Middleware/Authenticate.php file

Authentication

Authentication

For more on Laravel authentication, please read the documentation

Middleware



Middleware

Middleware

- Middleware provide a convenient mechanism for filtering HTTP requests entering your application - for protecting the routes of the application.
- For example, Laravel includes a middleware that verifies the user of your application is authenticated.
- If the user is not authenticated, the middleware **will redirect the user to the login screen**.
- However, if the user is authenticated, the middleware **will allow the request to proceed** further into the application. documentation

Middleware

Middleware

Additional middleware can be written to perform a variety of tasks besides authentication.

Let`s build **a middleware** that will protect the admin routes - the routes for reading, adding, editing, deleting users.

Middleware

- create a new middleware

```
php artisan make:middleware CheckIsAdmin
```

This command will place a new CheckIsAdmin class within your **app/Http/Middleware** directory.

Middleware

- In this middleware, we will only allow access to the route if the user role is admin. Otherwise, we will redirect the users back to the home URI.

```
public function handle($request, Closure $next)
    {
        if ($request->user()->role->name != ‘admin’) {
            return redirect('home');
        }
        return $next($request);
    }
```

Middleware

- The middleware runs before the request is handled by the app

```
public function handle($request, Closure $next)
    {
        if ($request->user()->role->name != ‘admin’) {
            return redirect('home');
        }
        return $next($request);
    }
```

Middleware

- The middleware runs after the request is handled by the app

```
public function handle($request, Closure $next)
    {
        $response = $next($request);
       // Perform middleware check action
        return $response;
    }
```

Middleware

- Register the middleware in app/Http/Kernel.php if you want to run during every HTTP request to your application in the **$middleware** property.
- If you want to assign the middleware to specific routes - follow the steps in the documentation.

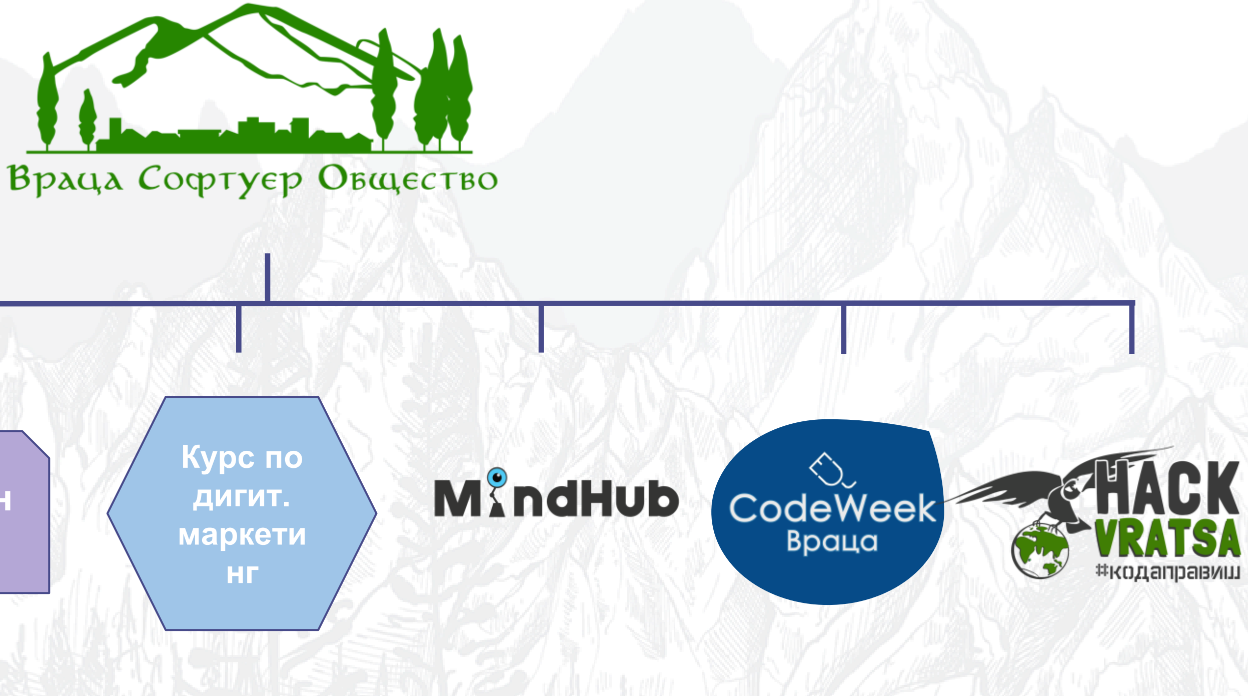
Middleware

- To assign multiple middlewares -

```
Route::resource('/demo', 'demoController')->middleware(['auth', 'admin']);
```

See the documentation for available ways of **grouping routes**.

Questions?



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