



Laravel – ett fullskaligt MVC-ramverk

Fortsättning...

Dagens agenda

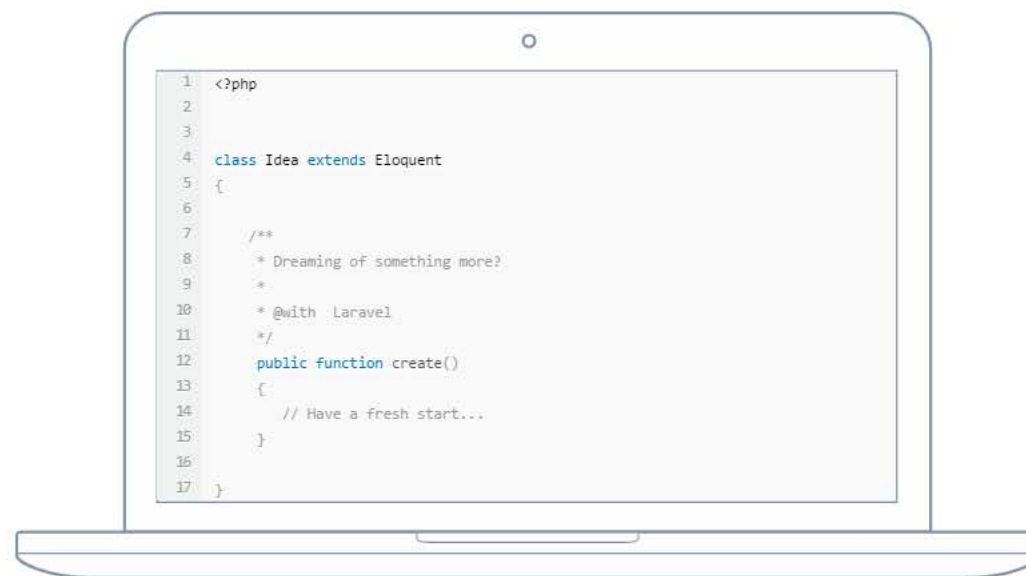
- Snabb repetition
- Middlewares
- Användarhantering i Laravel
 - Användardatabas
 - Inloggning
- Summering av denna del i kursen

Repetition

Laravel med tillhörande koncept

Love beautiful code? We do too.

The PHP Framework For Web Artisans



SEE WHAT'S NEW!

Laravel Components



Laravel Ecosystem



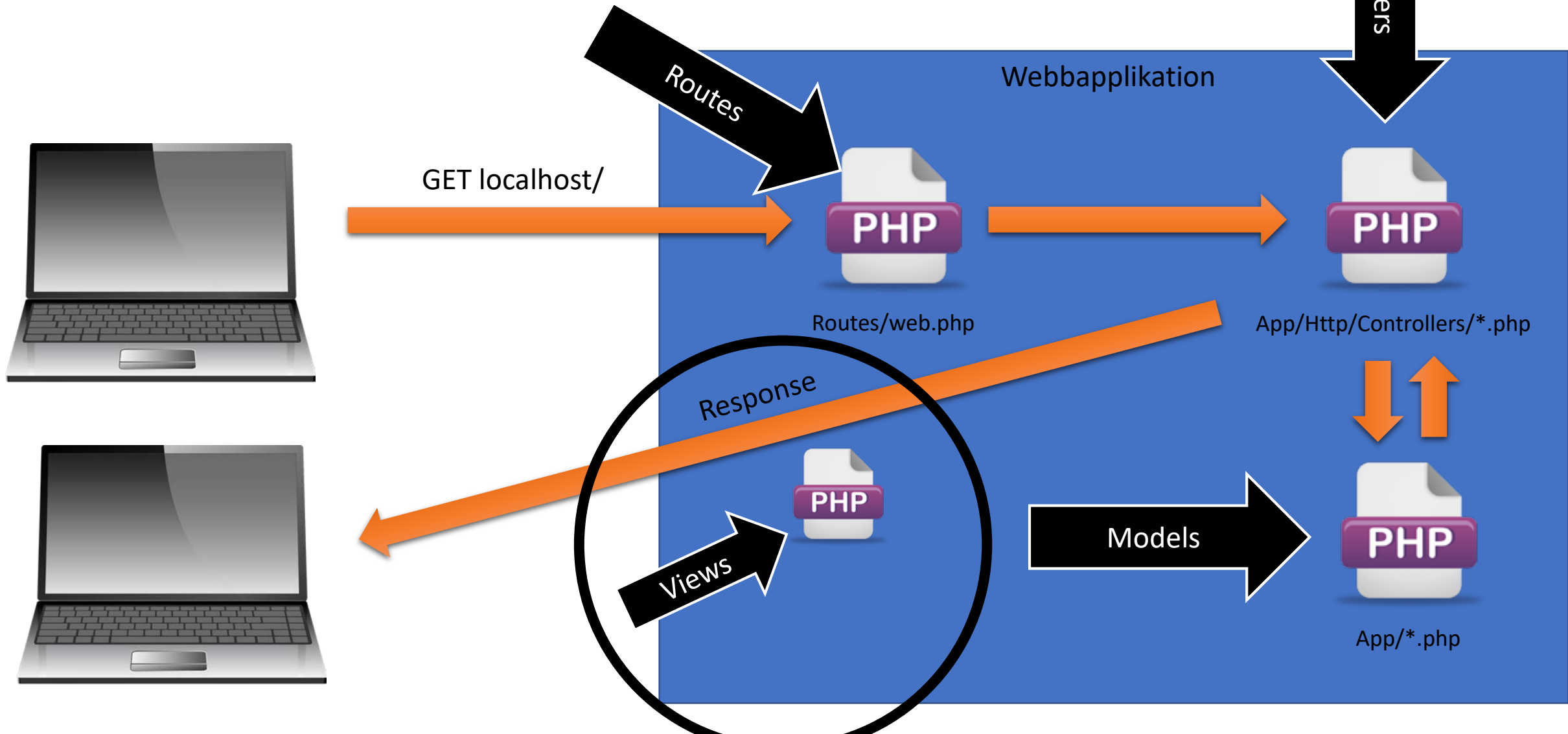
Laravel Resources

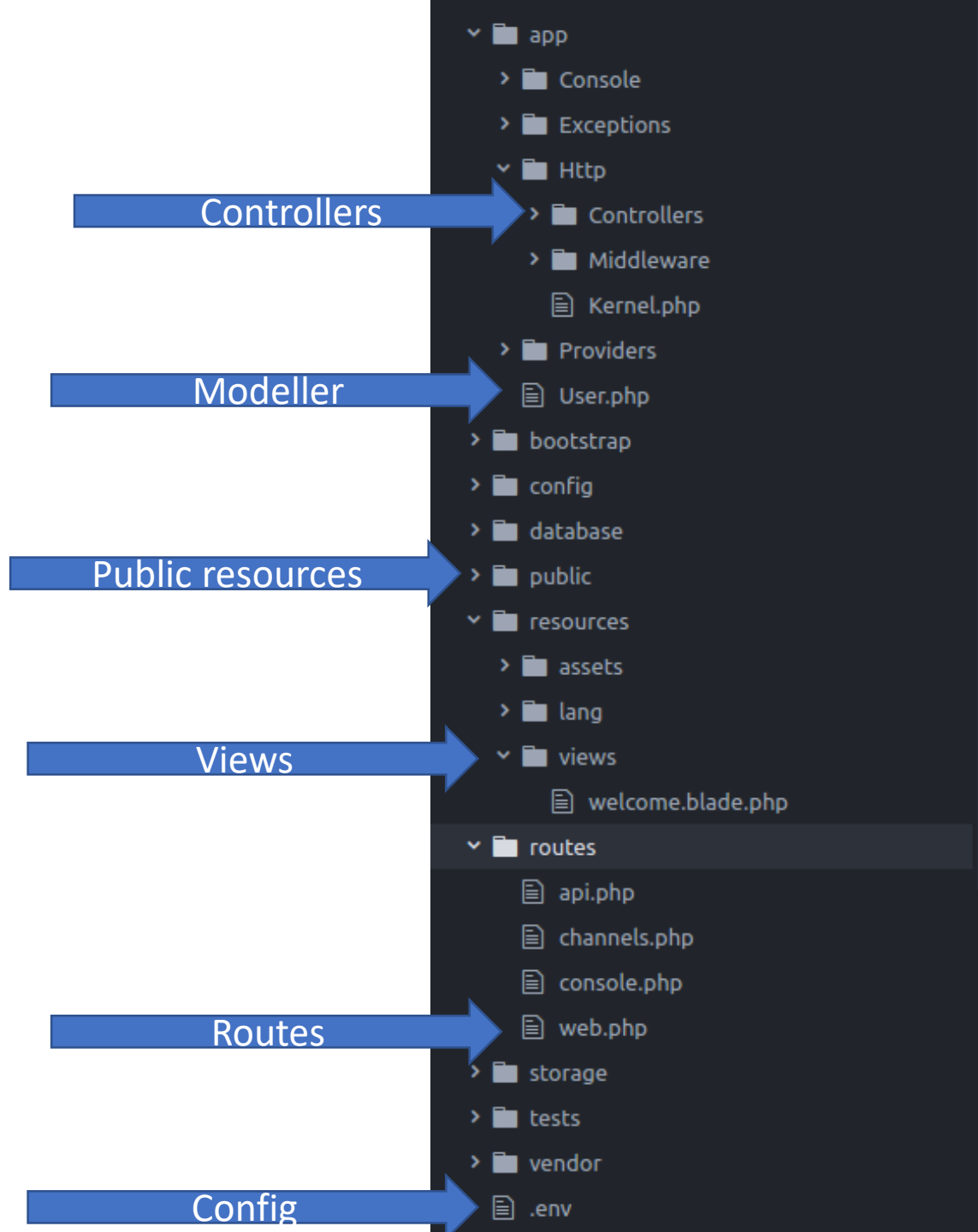


<https://laravel.com/>



Hur fungerar Laravel?

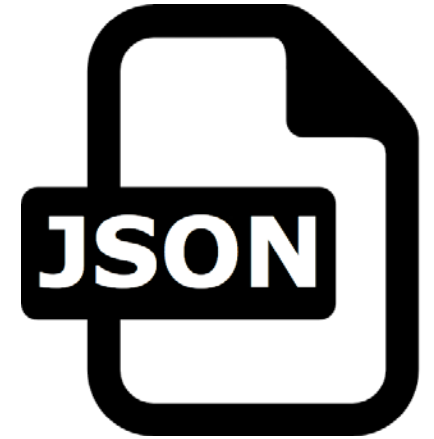




Lumen =>

Routes
Controllers
Models
Database

=> JSON-data



Laravel =>

Routes
Controllers
Models
Database

=> Webbbsida





Slack - it's teamwork, but simpler, more pleasant and more productive.

ads via Carbon

Prologue ▶

Getting Started ▶

Architecture Concepts ▶

The Basics ▶

Frontend ▶

Security ▶

Digging Deeper ▶

Database ▶

Eloquent ORM ▶

Testing ▶

Official Packages ▶

The Basics

- Routing
- Middleware
- CSRF Protection
- Controllers
- Requests
- Responses
- Views
- Session
- Validation
- Errors & Logging

Frontend

- Blade Templates
- Localization
- Frontend Scaffolding
- Compiling Assets

Database

- Getting Started
- Query Builder
- Pagination
- Migrations
- Seeding
- Redis

Eloquent ORM

- Getting Started
- Relationships
- Collections
- Mutators
- Serialization

php artisan

Ett hjälpmedel för att snabba upp utvecklingen av webbapplikationer

```
MINGW64: c:/Users/tsanti/Desktop/laravel-movies
$ php artisan
Laravel Framework 5.8.15

Usage:
  command [options] [arguments]

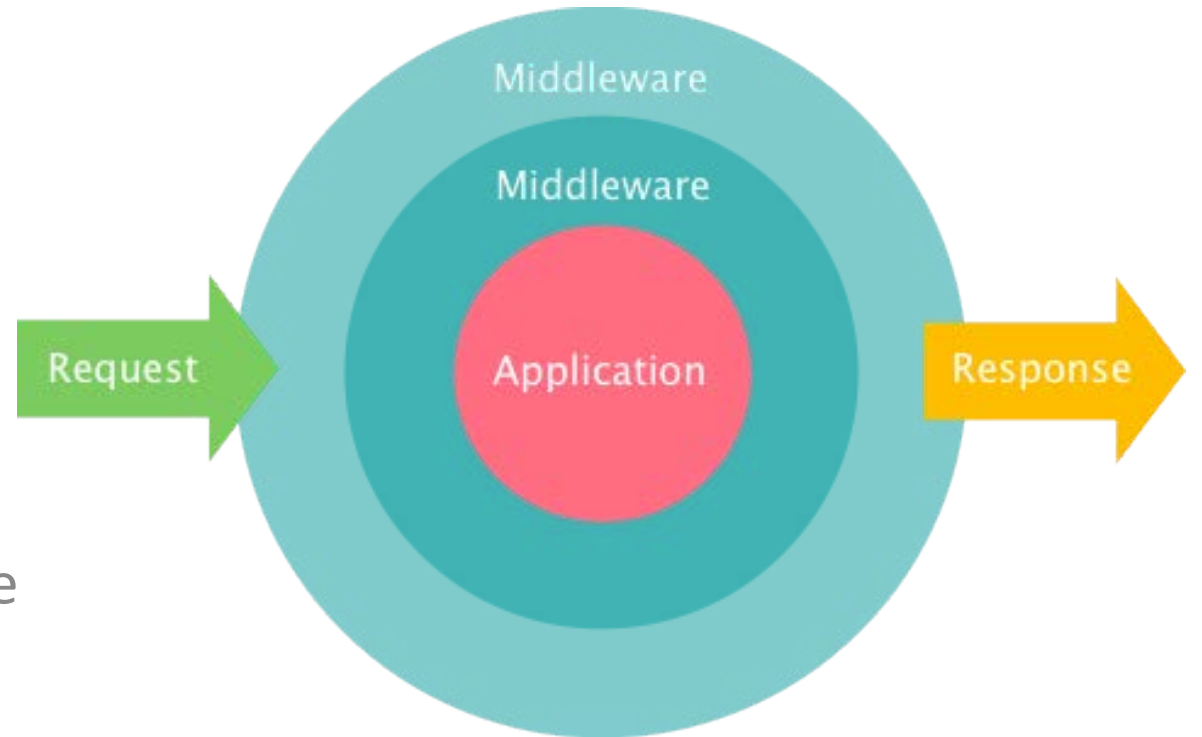
Options:
  -h, --help            Display this help message
  -q, --quiet            Do not output any message
  -V, --version          Display this application version
                       --ansi             Force ANSI output
                       --no-ansi          Disable ANSI output
  -n, --no-interaction  Do not ask any interactive question
                       --env[=ENV]       The environment the command should run under
  -v|vv|vvv, --verbose  Increase the verbosity of messages: 1 for normal output, 2 for more verbose output and 3 for debug

Available commands:
  clear-compiled  Remove the compiled class file
  down           Put the application into maintenance mode
  dump-server    Start the dump server to collect dump information.
  env           Display the current framework environment
  help          Displays help for a command
  inspire       Display an inspiring quote
  list          Lists commands
  migrate        Run the database migrations
  optimize       Cache the framework bootstrap files
  preset        Swap the front-end scaffolding for the application
  serve         Serve the application on the PHP development server
  tinkerc       Interact with your application
  up            Bring the application out of maintenance mode

  app
  app:name      Set the application namespace
  auth
  auth:clear-resets  Flush expired password reset tokens
  cache
  cache:clear    Flush the application cache
  cache:forget   Remove an item from the cache
  cache:table    Create a migration for the cache database table
  config
  config:cache   Create a cache file for faster configuration loading
  config:clear   Remove the configuration cache file
  db
  db:seed        Seed the database with records
  event
  event:cache    Discover and cache the application's events and listeners
  event:clear    Clear all cached events and listeners
  event:generate Generate the missing events and listeners based on registration
  event:list     List the application's events and listeners
  key
  key:generate   Set the application key
  make
  make:auth      Scaffold basic login and registration views and routes
  make:channel   Create a new channel class
  make:command   Create a new Artisan command
  make:controller  Create a new controller class
  make:event     Create a new event class
  make:exception Create a new custom exception class
  make:factory   Create a new model factory
  make:job       Create a new job class
  make:listener  Create a new event listener class
  make:mail      Create a new email class
  make:middleware Create a new middleware class
  make:migration Create a new migration file
  make:model     Create a new Eloquent model class
  make:notification  Create a new notification class
  make:observer  Create a new observer class
  make:policy    Create a new policy class
  make:provider  Create a new service provider class
  make:request   Create a new form request class
  make:resource  Create a new resource
  make:rule      Create a new validation rule
```

Middleware

<https://laravel.com/docs/5.8/middleware>



Middleware

- Vi har vi sett det innan

CSRF Protection

- # Introduction
- # Excluding URIs
- # X-CSRF-Token
- # X-XSRF-Token

Introduction

Laravel makes it easy to protect your application from [cross-site request forgery](#) (CSRF) attacks. Cross-site request forgeries are a type of malicious exploit whereby unauthorized commands are performed on behalf of an authenticated user.

Laravel automatically generates a CSRF "token" for each active user session managed by the application. This token is used to verify that the authenticated user is the one actually making the requests to the application.


Anytime you define a HTML form in your application, you should include a hidden CSRF token field in the form so that the CSRF protection middleware can validate the request. You may use the `csrf_field` helper to generate the token field:

```
<form method="POST" action="/profile">
    {{ csrf_field() }}
    ...
</form>
```




The `VerifyCsrfToken` [middleware](#), which is included in the `web` middleware group, will automatically verify that the token in the request input matches the token stored in the session.

Exempelanvändning av middleware - CSRF

Branch: master ▼ [da288a-vt19-laravel-movie-example](#) / [resources](#) / [views](#) / [movies](#) / [create.blade.php](#) Find file Copy path

 Tibbelit Code from lecture f1a98ef a day ago

1 contributor

18 lines (15 sloc) | 565 Bytes Raw Blame History   

```
1  @extends('movies.template')
2
3  @section('content')
4  <h1>Lägg till en ny film</h1>
5
6  <form action="{ route('movies.store') }}" method="POST">
7      @csrf
8      <label for="title">Titel</label>
9      <input type="text" name="title" id="title" class="form-control">
10     <label for="year">År</label>
11     <input type="number" name="year" id="year" class="form-control">
12     <label for="poster">Poster</label>
13     <input type="url" name="poster" id="poster" class="form-control">
14     <hr>
15     <input type="submit" class="btn btn-success" value="Spara film">
16 </form>
17
18 @endsection
```

Vilka middleware används, och när?

Branch: master ▼ da288a-vt19-laravel-movie-example / app / Http / Kernel.php Find file Copy path

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1 contributor

81 lines (73 sloc) 2.76 KB Raw Blame History

```
1 <?php
2
3 namespace App\Http;
4
5 use Illuminate\Foundation\Http\Kernel as HttpKernel;
6
7 class Kernel extends HttpKernel
8 {
9     /**
10      * The application's global HTTP middleware stack.
11      *
12      * These middleware are run during every request to your application.
13      *
14      * @var array
15      */
16     protected $middleware = [
17         \App\Http\Middleware\CheckForMaintenanceMode::class,
18         \Illuminate\Foundation\Http\Middleware\ValidatePostSize::class,
19         \App\Http\Middleware\TrimStrings::class,
20         \Illuminate\Foundation\Http\Middleware\ConvertEmptyStringsToNull::class,
21         \App\Http\Middleware\TrustProxies::class,
22     ];
23
24     /**
25      * The application's route middleware groups.
26      *
27      * @var array
28      */
29     protected $middlewareGroups = [
30         'web' => [
31             \App\Http\Middleware\EncryptCookies::class,
32             \Illuminate\Cookie\Middleware\AddQueuedCookiesToResponse::class,
33             \Illuminate\Session\Middleware\StartSession::class,
34             // \Illuminate\Session\Middleware\AuthenticateSession::class,
35             \Illuminate\View\Middleware\ShareErrorsFromSession::class,
36             \App\Http\Middleware\VerifyCsrfToken::class,
37             \Illuminate\Routing\Middleware\SubstituteBindings::class,
38         ],
39     ];
```

Var finns middleware?

Branch: master ▾


da288a-vt19-laravel-movie-example / app / Http / Middleware /

Create new file

Upload files


Find file

History

 Tibbelit Code from lecture


Latest commit f1a98ef a day ago

..

 [Authenticate.php](#)


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 [CheckForMaintenanceMode.php](#)


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 [EncryptCookies.php](#)


Code from lecture

a day ago

 [RedirectIfAuthenticated.php](#)


Code from lecture

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 [TrimStrings.php](#)


Code from lecture

a day ago

 [TrustProxies.php](#)

Code from lecture

a day ago

 [VerifyCsrfToken.php](#)

Code from lecture

a day ago

Branch: master ▾

da288a-vt19-laravel-movie-example / app / Http / Middleware / VerifyCsrfToken.php

Find file

Copy path



Tibbelit Code from lecture

f1a98ef a day ago

1 contributor

25 lines (20 sloc) | 463 Bytes

Raw

Blame

History



```
1  <?php
2
3  namespace App\Http\Middleware;
4
5  use Illuminate\Foundation\Http\Middleware\VerifyCsrfToken as Middleware;
6
7  class VerifyCsrfToken extends Middleware
8  {
9      /**
10       * Indicates whether the XSRF-TOKEN cookie should be set on the response.
11       *
12       * @var bool
13       */
14     protected $addHttpCookie = true;
15
16     /**
17      * The URIs that should be excluded from CSRF verification.
18      *
19      * @var array
20      */
21     protected $except = [
22         //
23     ];
24 }
```

php artisan make:middleware LogUrl

Skapa en middleware för att logga anropad URL

▲ OPEN EDITORS

 web.php routes LogUrl.php app\Http\Mid...

▲ AUTH-APP

▲ app



▸ Console

▸ Exceptions

▲ Http

▸ Controllers

▲ Middleware

 EncryptCookies.php LogUrl.php RedirectIfAuthenticate... TrimStrings.php TrustProxies.php VerifyCsrfToken.php Kernel.php

▸ Providers

 User.php

▸ bootstrap

```
1  <?php
2
3  namespace App\Http\Middleware;
4
5  use Closure;
6  use Illuminate\Support\Facades\Log;
7
8  class LogUrl
9  {
10     /**
11      * Handle an incoming request.
12      *
13      * @param  \Illuminate\Http\Request  $request
14      * @param  \Closure  $next
15      * @return mixed
16      */
17     public function handle($request, Closure $next)
18     {
19         Log::info($request->url());
20         return $next($request);
21     }
22 }
23
```

Efter ett request?

EXPLORER

OPEN EDITORS

web.php routes

LogUrl.php app\Http\Mid...

Kernel.php app\Http

laravel.log storage/logs

AUTH-APP

app

Console

Exceptions

Http

Controllers

Middleware

EncryptCookies.php

LogUrl.php

RedirectIfAuthenticate...

TrimStrings.php

TrustProxies.php

VerifyCsrfToken.php

Kernel.php

Providers

User.php

bootstrap

web.php

LogUrl.php x

Kernel.php

laravel.log

1 <?php

2

3 namespace App\Http\Middleware;

4

5 use Closure;

6 use Illuminate\Support\Facades\Log;

7

8 class LogUrl

9 {

10 /**

11 * Handle an incoming request.

12 *

13 * @param \Illuminate\Http\Request \$request

14 * @param \Closure \$next

15 * @return mixed

16 */

17 public function handle(\$request, Closure \$next)

18 {

19 \$response = \$next(\$request);

20

21 Log::info(\$request->url());

22





23 return \$response;

24 }





25 }

Att registrera en middleware

EXPLORER

 web.php LogUrl.php Kernel.php x *laravel.log*

OPEN EDITORS

 web.php routes LogUrl.php app\Http\Mid... Kernel.php app\Http *laravel.log* storage/logs

AUTH-APP

app








▸ Console

▸ Exceptions

Http

▸ Controllers

Middleware

 EncryptCookies.php LogUrl.php RedirectIfAuthenticate... TrimStrings.php TrustProxies.php VerifyCsrfToken.php Kernel.php

▸ Providers

```
1  <?php
2
3  namespace App\Http;
4
5  use Illuminate\Foundation\Http\Kernel as HttpKernel;
6
7  class Kernel extends HttpKernel
8  {
9      /**
10       * The application's global HTTP middleware stack.
11       *
12       * These middleware are run during every request to your application.
13       *
14       * @var array
15       */
16     protected $middleware = [
17         \Illuminate\Foundation\Http\Middleware\CheckForMaintenanceMode::class,
18         \Illuminate\Foundation\Http\Middleware\ValidatePostSize::class,
19         \App\Http\Middleware\TrimStrings::class,
20         \Illuminate\Foundation\Http\Middleware\ConvertEmptyStringsToNull::class,
21         \App\Http\Middleware\TrustProxies::class,
22         \App\Http\Middleware\LogUrl::class,
23     ];
```

Middleware som ej gäller alla routes

Middleware groups may be assigned to routes and controller actions using the same syntax as individual middleware. Again, middleware groups make it more convenient to assign many middleware to a route at once:

```
Route::get('/', function () {  
    //  
})->middleware('web');  
  
Route::group(['middleware' => ['web']], function () {  
    //  
});
```

<https://laravel.com/docs/5.8/middleware>

Controller Middleware

Middleware may be assigned to the controller's routes in your route files:

```
Route::get('profile', 'UserController@show')->middleware('auth');
```

However, it is more convenient to specify middleware within your controller's constructor.

Using the `middleware` method from your controller's constructor, you may easily assign middleware to the controller's action. You may even restrict the middleware to only certain methods on the controller class:

```
class UserController extends Controller
{
    /**
     * Instantiate a new controller instance.
     *
     * @return void
     */
    public function __construct()
    {
        $this->middleware('auth');

        $this->middleware('log')->only('index');

        $this->middleware('subscribed')->except('store');
    }
}
```

Demo - middleware

MEMBER LOGIN



Username



LOGIN

Introduction



Want to get started fast? Just run `php artisan make:auth` and `php artisan migrate` in a fresh Laravel application. Then, navigate your browser to `http://your-app.test/register` or any other URL that is assigned to your application. These two commands will take care of scaffolding your entire authentication system!

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.

At its core, Laravel's authentication facilities are made up of "guards" and "providers". Guards define how users are authenticated for each request. For example, Laravel ships with a `session` guard which maintains state using session storage and cookies.

Providers define how users are retrieved from your persistent storage. Laravel ships with support for retrieving users using Eloquent and the database query builder. However, you are free to define additional providers as needed for your application.

Don't worry if this all sounds confusing now! Many applications will never need to modify the default authentication configuration.

php artisan make:auth

- Skapar routes för inloggning
 - Kontrollera routes genom kommando: *php artisan route:list* i terminalen
- Skapar Controller för *Auth* (mappen *Auth* under *Controllers*)
- Skapar vyer för inloggning
- Vi behöver
 - Skapa en databas
 - Uppdatera vår .env-fil så att den stämmer överens med databasen
 - Migrera databas

Retrieving The Authenticated User

You may access the authenticated user via the `Auth` facade:

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

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

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

<https://laravel.com/docs/5.8/authentication>

Protecting Routes

Route middleware can be used to only allow authenticated users to access a given route.

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:

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

Of course, if you are using controllers, you may call the `middleware` method from the controller's constructor instead of attaching it in the route definition directly:

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

Demo!

Sammanfattning av denna del i kursen

Reflektion i kursen

- Beskriv följande delar i kursen:
 - PHP
 - Pakethanterare
 - Versionshantering
 - Lumen
 - Laravel
- Inom MVC och webbramverk beskriv följande delar i kursen:
 - Routes
 - Controllers
 - Models
 - Views
 - ORM
 - Migration & seeds
 - Authentisering
 - Middleware

Kommande delar i kursen

- Testning
- Refaktorisering
- Integration
- Deployment
- Delivery
- => Att publicera ett projekt