



Ajuntament
de Barcelona

LARAVEL BASICS

QUICK START

IT Academy

Desembre 2020





Barcelona Activa, la agencia de desarrollo económico y local del ayuntamiento de Barcelona

LARAVEL FRAMEWORK

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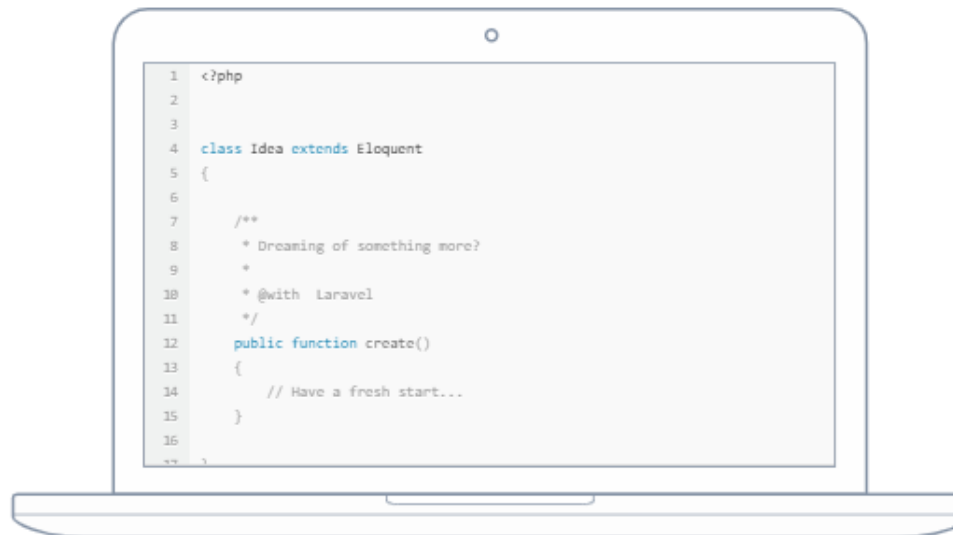
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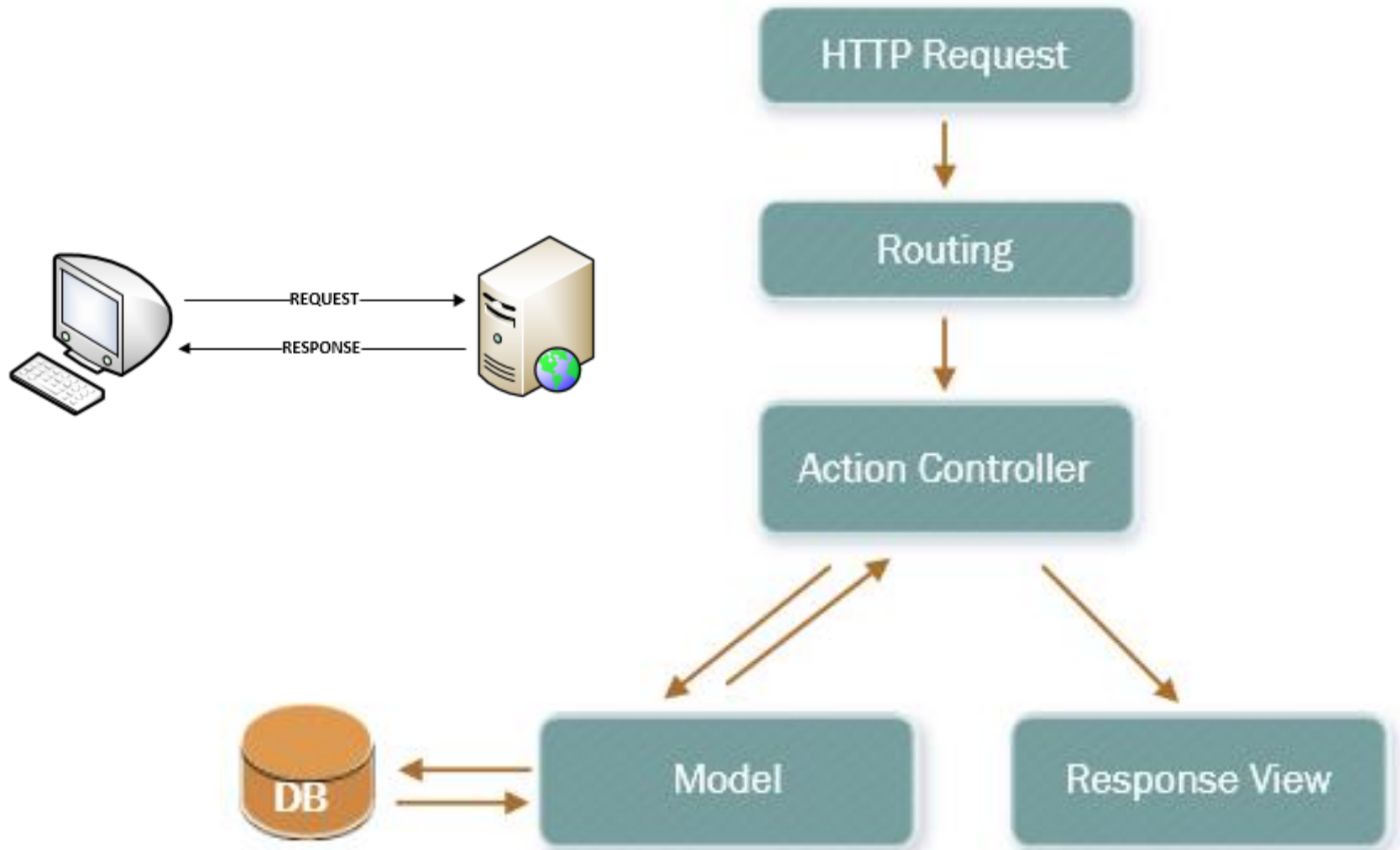
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The PHP Framework For Web Artisans





LARAVEL FRAMEWORK





CARACTERÍSTIQUES

- **Blade:** Blade es un sistema de plantilles per crear vistes en Laravel.
- **Eloquent:** Eloquent es el ORM que inclou Laravel.
- **Routing:** Laravel proporciona un sistema d'organització i gestió de rutes que ens permet controlar de manera exhaustiva les rutes del nostre sistema.
- **Middlewares:** Són una espècie de controladors que s'executen abans i després d'una petició al servidor, la qual cosa ens permet inserir múltiples controls, validacions o processos en aquests punts del fluxe de l'aplicació.



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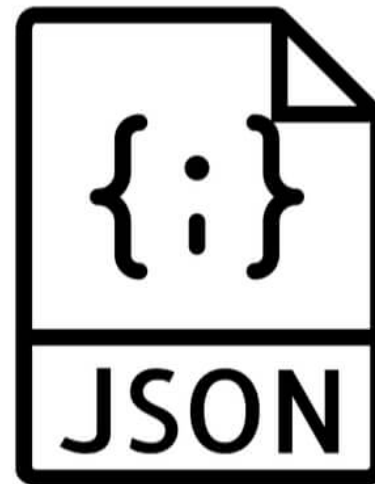
LARAVEL - COMPOSER





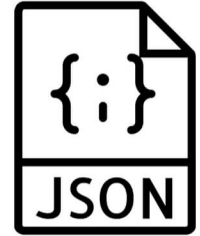
LARAVEL - COMPOSER

Composer és un administrador de paquets a nivell d'aplicació per a el llenguatge de programació PHP que proporciona un format estàndard per a administrar les dependències del programari PHP i les biblioteques requerides.





LARAVEL - COMPOSER



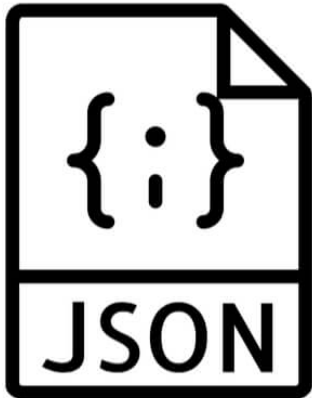
Comandos:

- **require** : agrega la biblioteca en el paràmetre a l'arxiu `composer.json` , i instal·le-la.
- **install** : instal·la totes les biblioteques de `composer.json`. És el comando a usar per a descarregar totes les dependències del repositori de PHP.
- **update** : actualitza totes les biblioteques de `composer.json`, d'acord amb les versions permeses esmentades en ell.
- **remove** : desinstal·la una biblioteca i l'elimina de `composer.json`.



LARAVEL - COMPOSER

```
composer require monolog/monolog
```



```
{  
    "require": {  
        "monolog/monolog": "1.2.*"  
    }  
}
```




LARAVEL - COMPOSER

```
1 {
2     "name": "laravel/laravel",
3     "type": "project",
4     "description": "The Laravel Framework.",
5     "keywords": [
6         "framework",
7         "laravel"
8     ],
9     "license": "MIT",
10    "require": {
11        "php": "^7.1.3",
12        "fideloper/proxy": "^4.0",
13        "laravel/framework": "5.8.*",
14        "laravel/tinker": "^1.0"
15    },
16    "require-dev": {
17        "beyondcode/laravel-dump-server": "^1.0",
18        "filp/whoops": "^2.0",
19        "fzaninotto/faker": "^1.4",
20        "mockery/mockery": "^1.0",
21        "nunomaduro/collision": "^3.0",
22        "phpunit/phpunit": "^7.5"
23    },
```

```
24 }
25
26 "config": {
27     "optimize-autoloader": true,
28     "preferred-install": "dist",
29     "sort-packages": true
30 },
31 "extra": {
32     "laravel": {
33         "dont-discover": []
34     }
35 },
36 "autoload": {
37     "psr-4": {
38         "App\\": "app/"
39     },
40     "classmap": [
41         "database/seeds",
42         "database/factories"
43     ]
44 },
45 "autoload-dev": {
46     "psr-4": {
47         "Tests\\": "tests/"
48     }
49 },
50 "minimum-stability": "dev",
51 "prefer-stable": true,
```



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LARAVEL - COMPOSER



Dependency Manager for PHP

Latest: v1.8.5

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LARAVEL – Integració amb Netbeans

New PHP Project



Steps

1. Choose Project
2. Name and Location
3. Run Configuration
4. PHP Frameworks
5. **Composer**

Composer

Token: SYMFONY

Search

☐ Search only in name

Packages:

symfony/symfony: The Symfony PHP frame ^
symfony/yaml: Symfony Yaml Component
symfony/var-dumper: Symfony mechanism
symfony/translation: Symfony Translation
symfony/routing: Symfony Routing Compon
symfony/process: Symfony Process Compo
symfony/polyfill-php72: Symfony polyfill b
symfony/polyfill-php70: Symfony polyfill b
symfony/polyfill-mbstring: Symfony polyf

Loading package details...

Version: <no versions available> v

Selected:

[Options...](#)

< Back

Next >

Finish

Cancel

Help



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LARAVEL – Integració amb Netbeans

AAAAA - Apache NetBeans IDE 11.0

File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help

374,7/854,5MB

Proj... x Services Favorites Files

Start Page x index.php x pagina1.php x Output x composer.json x

Source History

Terminal - ...gdrive/c/Program Files/netbeans/bin x

```
Jose@DESKTOP-9PDV6TK /cygdrive/c/Program Files/netbeans/bin
$
```

Cygwin Setup

Cygwin Net Release Setup Program

This setup program is used for the initial installation of the Cygwin environment as well as all subsequent updates. Make sure to remember where you saved it.

The pages that follow will guide you through the installation. Please note that Cygwin consists of a large number of packages spanning a wide variety of purposes. We only install a base set of packages by default. You can always run this program at any time in the future to add, remove, or upgrade packages as necessary.

Setup version 2.897 (64 bit)
Copyright 2000-2019
<https://cygwin.com/>

< Atrás Siguiente > Cancelar

Navigator x


- license : String
- type : String
- autoload
 - psr-4
 - App\ : String
 - autoload-dev



LARAVEL 5 – Crear Projecte

 Windows PowerShell

```
PS C:\Users\Jose> composer -V
Composer version 1.8.5 2019-04-09 17:46:47
PS C:\Users\Jose>
```


 Windows PowerShell

```
Windows PowerShell
Copyright (C) Microsoft Corporation. Todos los derechos reservados.


PS C:\Users\Jose> cd C:\xampp\htdocs
```



LARAVEL 5 – Crear Projecte

 Administrador: Windows PowerShell

```
PS C:\Windows\system32> composer create-project laravel/laravel LARAVEL01
```

 Administrador: Windows PowerShell

```
PS C:\xampp\htdocs> composer create-project laravel/laravel LARAVEL01
Installing laravel/laravel (v5.8.17)
- Installing laravel/laravel (v5.8.17): Loading from cache
Created project in LARAVEL01
> @php -r "file_exists('.env') || copy('.env.example', '.env');"
Loading composer repositories with package information
Updating dependencies (including require-dev)
```



LARAVEL 5 – Crear Proyecto

Administrador: Windows PowerShell

```
PS C:\xampp\htdocs> cd .\LARAVEL01\  
PS C:\xampp\htdocs\LARAVEL01> ls
```

Directorio: C:\xampp\htdocs\LARAVEL01

Mode	LastWriteTime	Length	Name
d----	09/07/2019 11:12		app
d----	09/07/2019 11:12		bootstrap
d----	09/07/2019 11:12		config
d----	09/07/2019 11:12		database
d----	09/07/2019 11:12		public
d----	09/07/2019 11:12		resources
d----	09/07/2019 11:12		routes
d----	09/07/2019 11:12		storage
d----	09/07/2019 11:12		tests
d----	09/07/2019 11:14		vendor
-a----	09/07/2019 11:12	213	.editorconfig
-a----	09/07/2019 11:14	790	.env
-a----	09/07/2019 11:12	739	.env.example
-a----	09/07/2019 11:12	111	.gitattributes
-a----	09/07/2019 11:12	151	.gitignore
-a----	09/07/2019 11:12	174	.styleci.yml
-a----	09/07/2019 11:12	1686	artisan
-a----	09/07/2019 11:12	1550	composer.json
-a----	09/07/2019 11:14	167312	composer.lock
-a----	09/07/2019 11:12	1125	package.json
-a----	09/07/2019 11:12	1156	phpunit.xml
-a----	09/07/2019 11:12	4151	readme.md
-a----	09/07/2019 11:12	563	server.php
-a----	09/07/2019 11:12	538	webpack.mix.js

- app
- bootstrap
- config
- database
- public
- resources
- routes
- storage
- tests
- vendor
- .editorconfig
- .env
- .env.example
-
-
- .styleci.yml
- artisan
- composer
- composer.lock
- package
- phpunit
- readme.md
- server.php
- webpack.mix



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LARAVEL 5 – Crear Projecte

Poner en marcha el proyecto Laravel con el servidor integrado en PHP 7

 Administrador: Windows PowerShell

```
PS C:\xampp\htdocs\LARAVEL01> php artisan serve  
Laravel development server started: <http://127.0.0.1:8000>
```



Laravel

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LARAVEL – Crear Proyecto

← → ↺ 🏠 ⓘ localhost/LARAVEL01/ 📖 ☆			
Index of /LARAVEL01			
<u>Name</u>	<u>Last modified</u>	<u>Size</u>	<u>Description</u>
🔙 Parent Directory		-	
📁 app/	2019-07-09 11:12	-	
🔍 artisan	2019-07-09 11:12	1.6K	
📁 bootstrap/	2019-07-09 11:12	-	
🔍 composer.json	2019-07-09 11:12	1.5K	
🔍 composer.lock	2019-07-09 11:14	163K	
📁 config/	2019-07-09 11:12	-	
📁 database/	2019-07-09 11:12	-	
🔍 package.json	2019-07-09 11:12	1.1K	
🔍 phpunit.xml	2019-07-09 11:12	1.1K	
📁 public/	2019-07-09 11:12	-	
📁 resources/	2019-07-09 11:12	-	
📁 routes/	2019-07-09 11:12	-	
📄 server.php	2019-07-09 11:12	563	
📁 storage/	2019-07-09 11:12	-	
📁 tests/	2019-07-09 11:12	-	
📁 vendor/	2019-07-09 11:14	-	
🔍 webpack.mix.js	2019-07-09 11:12	538	
Apache/2.4.39 (Win64) OpenSSL/1.1.1b PHP/7.3.5 Server at localhost Port 80			



LARAVEL – Crear Projecte

app

Aquesta carpeta és on tindrem la major part del codi del teu projecte. La immensa majoria del codi del teu projecte serà creat ací.

config

La configuració comuna a tots els entorns és ací. Laravel configura amb arrays de PHP.

database

En Laravel, les bases de dades i la seua estructura interna requereix ser entesa abans d'iniciar a programar. Això s'aconsegueix a través de migracions.

public

El contingut d'aquesta carpeta serà accessible pels teus usuaris. Emmagatzema els arxius estàtics de la teua aplicació. Col·loca ací els arxius html, javascript, css, vídeos i imatges.



LARAVEL – Crear Projecte

resources

Ací es guarden els arxius de vistes i raw assets (LESS, SASS, CoffeeScript). És a dir, el Frontend de l'aplicació. A més estan arxius de traducció, si tens una app multilenguaje.

storage

És la carpeta temporal de Laravel: logs, cache de templates, etc.

tests

Ací es guarden les classes responsables de realitzar el unit testing als diversos components de la teua aplicació. Laravel, per defecte, usa PHP Unit per a fer testing.

vendor

Aquesta carpeta és administrada per Composer. Ací veuràs les dependències i llibreries del projecte. Core de Laravel.



LARAVEL – Crear Proyecto

```
1 {
2     "name": "laravel/laravel",
3     "type": "project",
4     "description": "The Laravel Framework.",
5     "keywords": [
6         "framework",
7         "laravel"
8     ],
9     "license": "MIT",
10    "require": {
11        "php": "^7.1.3",
12        "fideloper/proxy": "^4.0",
13        "laravel/framework": "5.8.*",
14        "laravel/tinker": "^1.0"
15    },
16    "require-dev": {
17        "beyondcode/laravel-dump-server": "^1.0",
18        "filp/whoops": "^2.0",
19        "fzaninotto/faker": "^1.4",
20        "mockery/mockery": "^1.0",
21        "nunomaduro/collision": "^3.0",
22        "phpunit/phpunit": "^7.5"
23    },
```

```
24    "config": {
25        "optimize-autoloader": true,
26        "preferred-install": "dist",
27        "sort-packages": true
28    },
29    "extra": {
30        "laravel": {
31            "dont-discover": []
32        }
33    },
34    "autoload": {
35        "psr-4": {
36            "App\\": "app/"
37        },
38        "classmap": [
39            "database/seeds",
40            "database/factories"
41        ]
42    },
43    "autoload-dev": {
44        "psr-4": {
45            "Tests\\": "tests/"
46        }
47    },
48    "minimum-stability": "dev",
49    "prefer-stable": true,
```



LARAVEL – DEBUG BAR

Instalar Laravel Debugbar

```
composer require barryvdh/laravel-debugbar --dev

Using version ^3.2 for barryvdh/laravel-debugbar
./composer.json has been updated
Loading composer repositories with package information
Updating dependencies (including require-dev)
Package operations: 2 installs, 0 updates, 0 removals
  - Installing maximebf/debugbar (v1.15.0) Downloading: 100%
  - Installing barryvdh/laravel-debugbar (v3.2.0) Downloading: 100%

.....
```



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Ahora ve a la carpeta **config** y abre el archivo **app.php**

```
/config  
|— app.php // Abre esté archivo  
|— debugbar.php
```

Y en la parte de los Providers agrega

```
App\Providers\RouteServiceProvider::class,
```

Luego más Abajo en los Aliases, agrega el Siguiente Facade

```
'Debugbar' => Barryvdh\Debugbar\Facade::class,
```



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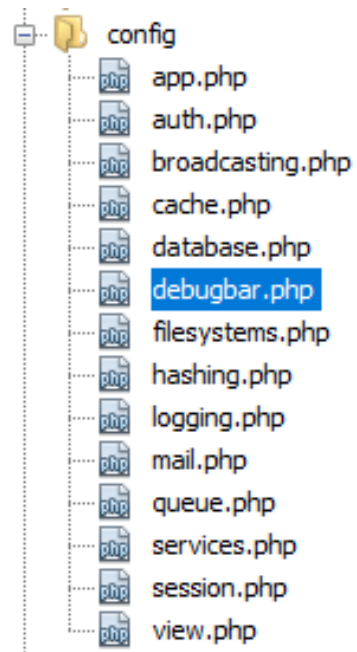
Paso seguido abre tu consola de comandos y ejecuta el siguiente comando para crear un nuevo archivo de configuración de Laravel Debugbar en la carpeta **config** llamado **debugbar.php**

```
php artisan vendor:publish --provider="Barryvdh\Debugbar\ServiceProvider"
```

Bien ahora si abres tu proyecto en el navegador, aparecerá un icono de Laravel al cual si le haces click te aparecerá la herramienta Debugbar

```
Jose@DESKTOP-9PDV6TK /cygdrive/c/xampp/htdocs/LA101
$ php artisan vendor:publish --provider="Barryvdh\Debugbar\ServiceProvider"
Copied File [\vendor\barryvdh\laravel-debugbar\config\debugbar.php] To [\config\debugbar.php]
Publishing complete.

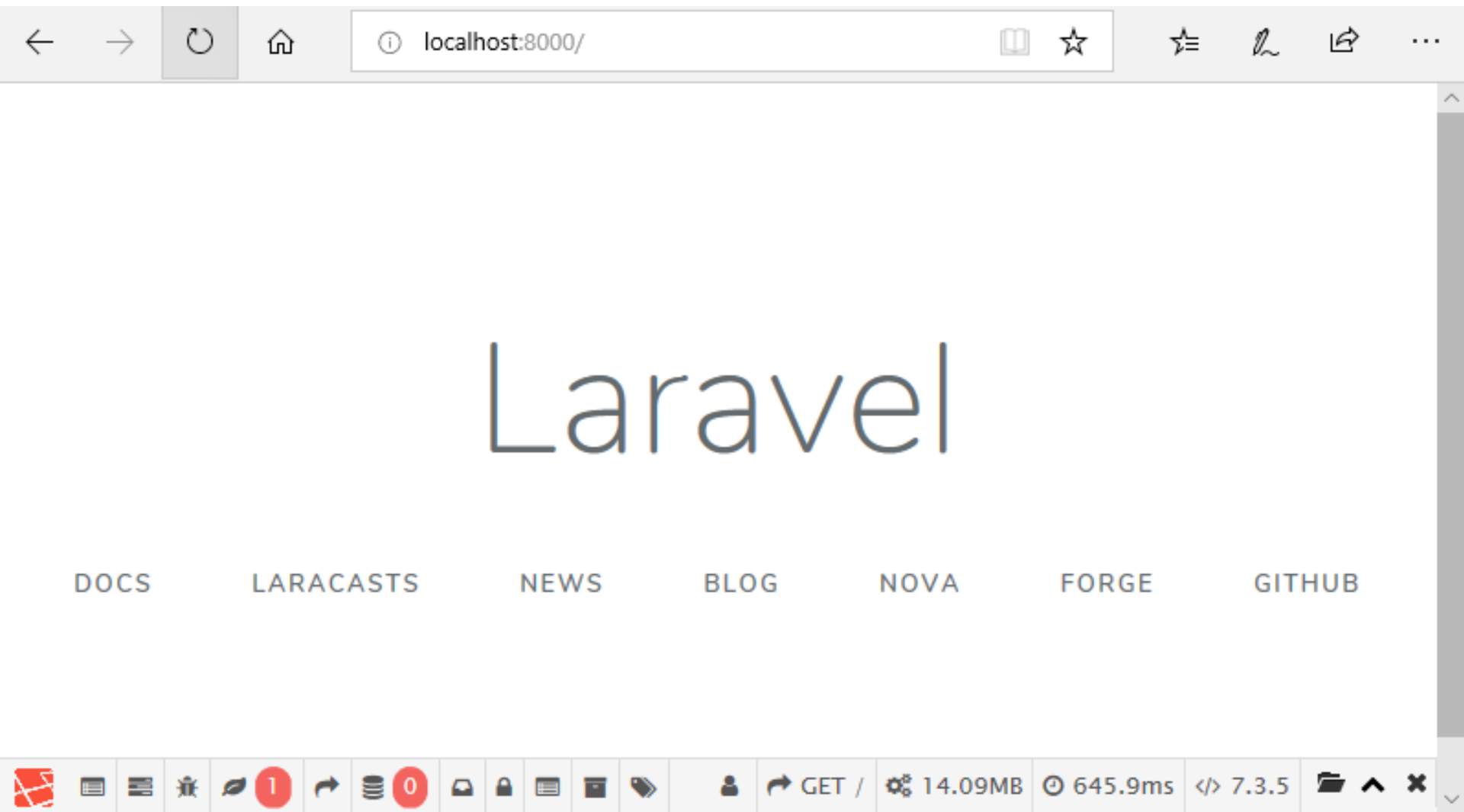
Jose@DESKTOP-9PDV6TK /cygdrive/c/xampp/htdocs/LA101
$ php artisan serve
Laravel development server started: <http://127.0.0.1:8000>
[Mon Jul 22 15:06:10 2019] 127.0.0.1:60587 [200]: /favicon.ico
```



```
'collectors' => [
    'phpinfo'           => true,    // Php version
    'messages'          => true,    // Messages
    'time'              => true,    // Time Datlogger
    'memory'            => true,    // Memory usage
    'exceptions'        => true,    // Exception displayer
    'log'               => true,    // Logs from Monolog (merged in messages if en
    'db'                => true,    // Show database (PDO) queries and bindings
    'views'             => true,    // Views with their data
    'route'             => true,    // Current route information
    'auth'              => true,    // Display Laravel authentication status
    'gate'              => true,    // Display Laravel Gate checks
    'session'           => true,    // Display session data
    'symfony_request'   => true,    // Only one can be enabled..
    'mail'              => true,    // Catch mail messages
    'laravel'           => false,   // Laravel version and environment
    'events'            => false,   // All events fired
    'default_request'   => false,   // Regular or special Symfony request logger
    'logs'              => false,   // Add the latest log messages
    'files'             => false,   // Show the included files
    'config'            => false,   // Display config settings
    'cache'             => false,   // Display cache events
],
```

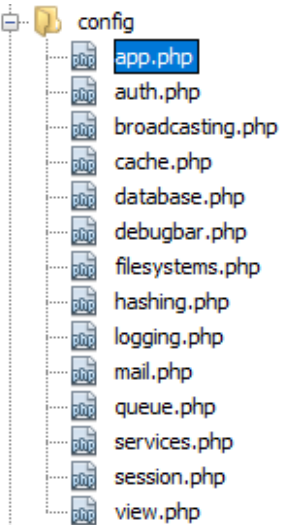



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Desactivar Laravel Debugbar



```
41  
42 'debug' => env('APP_DEBUG', false),  
43  
44 /*  
45 |-----  
46 | Application URL  
47 |-----  
48 |  
49 | This URL is used by the console to properly generate URLs when using  
50 | the Artisan command line tool. You should set this to the root of  
51 | your application so that it is used when running Artisan tasks.  
52 |  
53 */  
54  
55 'url' => env('APP_URL', 'http://localhost'),  
56
```



```
1 APP_NAME=Laravel  
2 APP_ENV=local  
3 APP_KEY=base64:sAibLLKjxAQn2ewqu6jallzKoDUsXm4e4w7xhXgVny4=  
4 APP_DEBUG=false  
5 DEBUGBAR_ENABLED=false  
6 APP_URL=http://localhost  
7
```



In case of fire



1. `git commit`



2. `git push`



3. leave building



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