

LẬP TRÌNH WEB PHẦN MỀM NÂNG CAO

GV: Trần Thanh Tuấn



Laravel

Giới thiệu Laravel Framework

- Mô hình MVC
- Laravel Framework

Mô hình MVC

- Model

- Đối tượng mô tả dữ liệu
- Nghiệp vụ logic
- Truy xuất cơ sở dữ liệu

- View

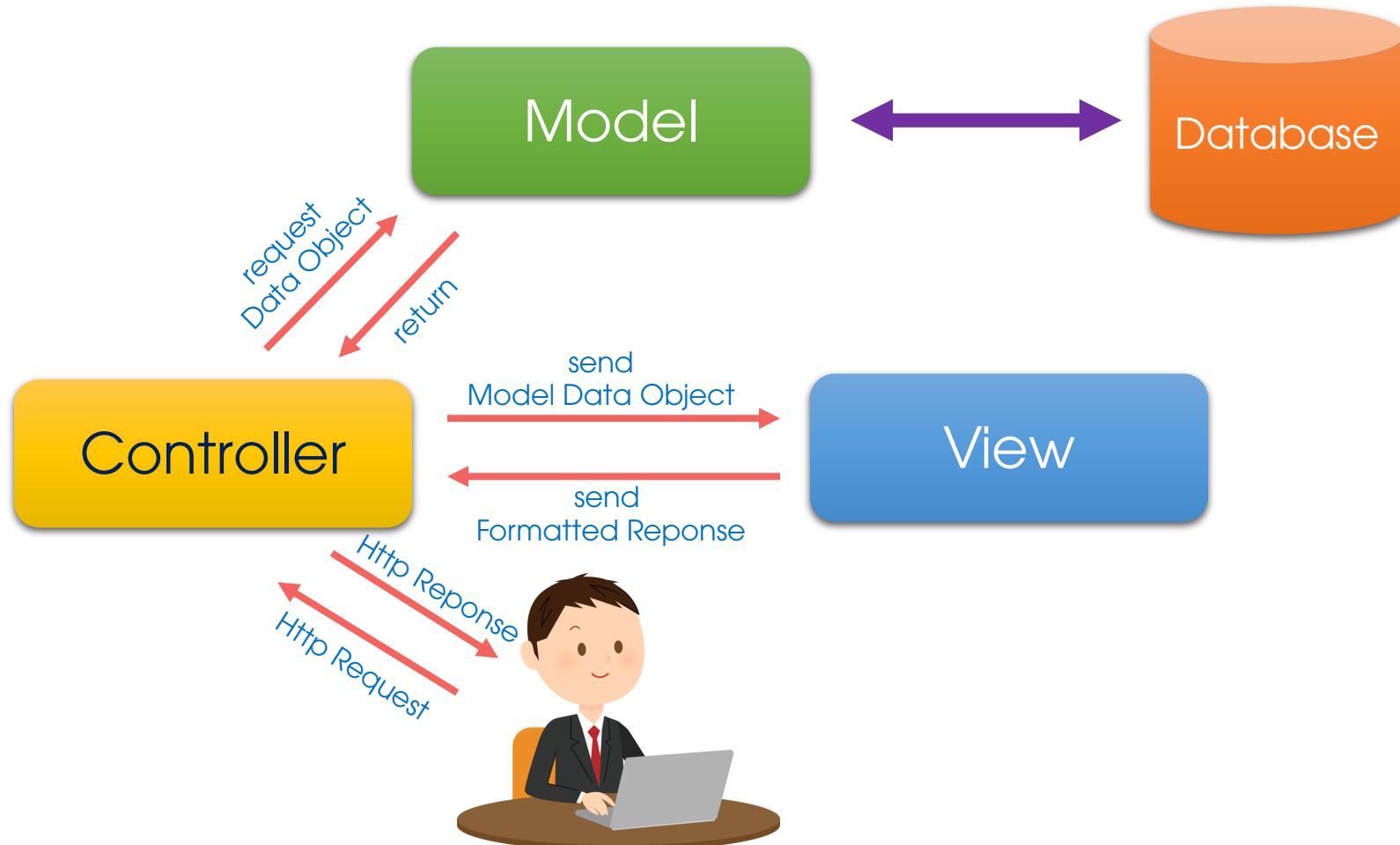
- Hiển thị thông tin
- Tương tác với người dùng

- Controller

- Điều hướng yêu cầu từ người dùng

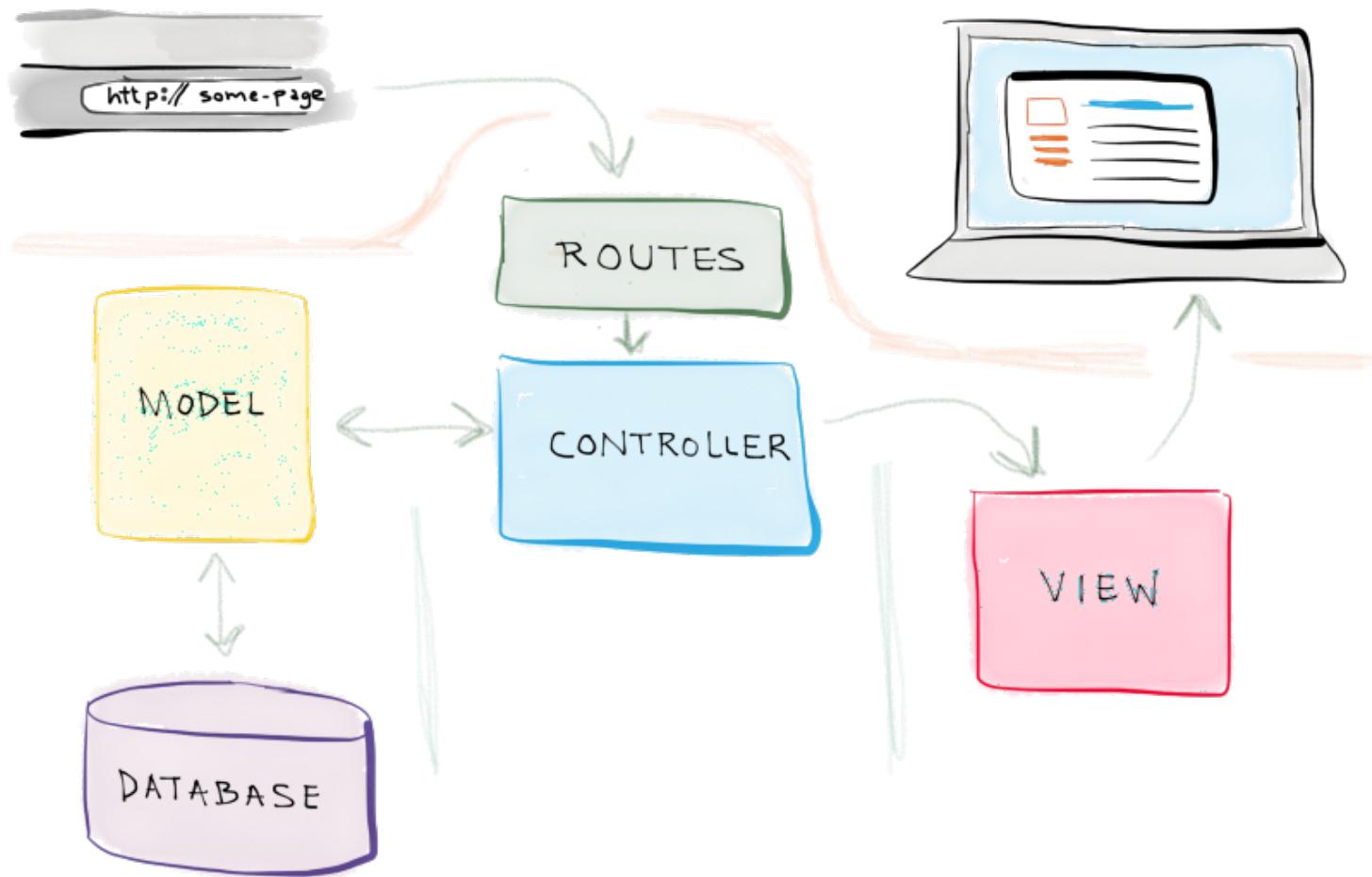
Mô hình MVC

- Model – View – Controller



Mô hình MVC

- Model – View – Controller



Laravel Framework

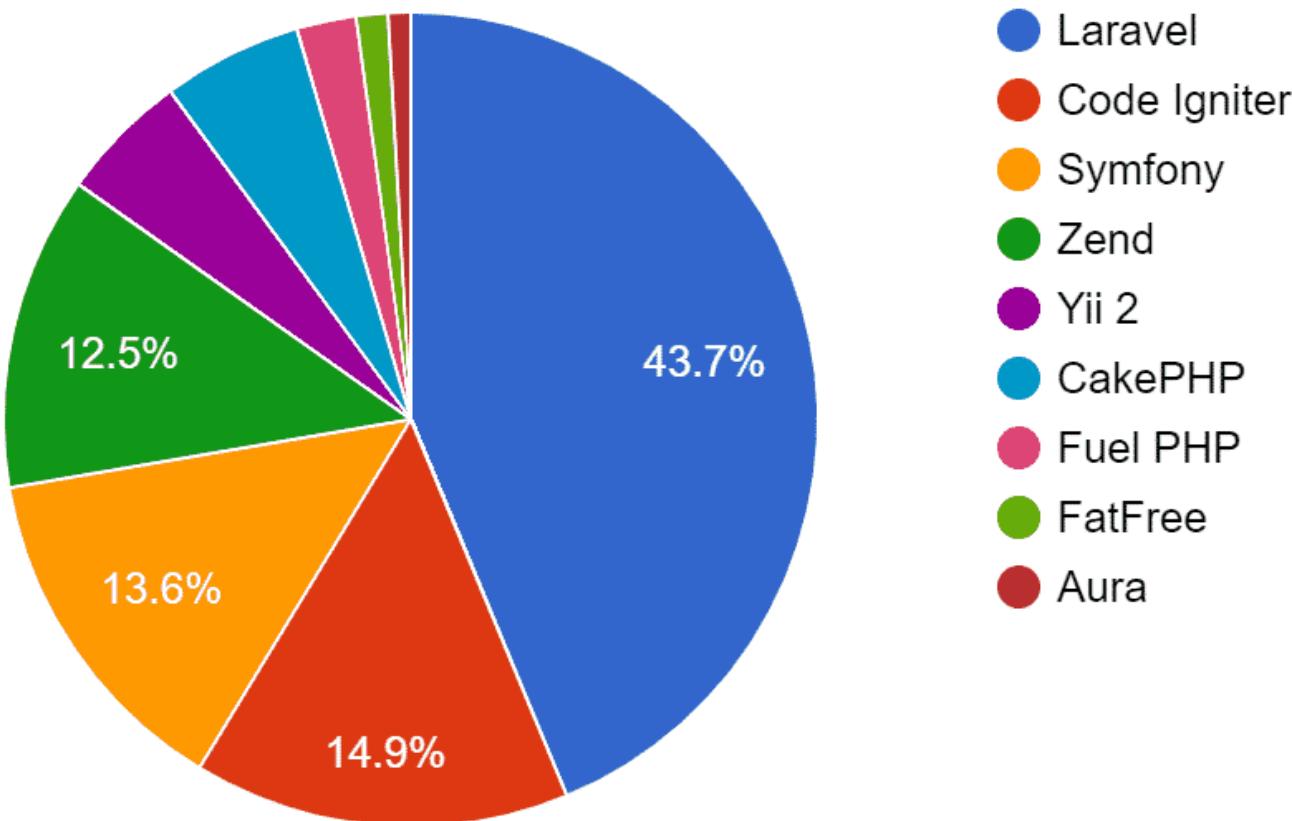
- Taylor Otwell
- 2011
- MVC



Version	Release date	PHP version
1.0	June 2011	
2.0	September 2011	
3.0	February 22, 2012	
3.1	March 27, 2012	
3.2	May 22, 2012	
4.0	May 28, 2013	≥ 5.3.0
4.1	December 12, 2013	≥ 5.3.0
4.2	June 1, 2014	≥ 5.4.0
5.0	February 4, 2015	≥ 5.4.0
5.1 LTS	June 9, 2015	≥ 5.5.9
5.2	December 21, 2015	≥ 5.5.9
5.3	August 23, 2016	≥ 5.6.4
5.4	January 24, 2017	≥ 5.6.4
5.5 LTS	August 30, 2017	≥ 7.0.0
5.6	February 7, 2018	≥ 7.1.3
5.7	September 4, 2018	≥ 7.1.3
5.8	February 26, 2019	≥ 7.1.3
6.0 LTS	September 3, 2019 ^[17]	≥ 7.2.0
7	March 3, 2020 ^[22]	≥ 7.2 and ≤ 8.0 ^[21]
8	September 8, 2020	≥ 7.3 and ≤ 8.1 ^[21]
9	February 8, 2022 ^[21]	≥ 8.0 and ≤ 8.1 ^[21]
10	February 7, 2023	≥ 8.1 ^[21]
11	January 2024	

Laravel Framework

PHP Framework Used for Project Use



Laravel Framework

- Hệ sinh thái Laravel



Vapor
Serverless Platform



Forge
Server Management



Envoyer
Zero Downtime Deployment



Horizon
Queue Monitoring



Nova
Administration Panel



Echo
Realtime Events



Lumen
Micro-Framework



Homestead
Pre-Packaged Vagrant Box



Spark
SaaS App Scaffolding



Valet
Dev Environment for Macs



Mix
Webpack Asset Compilation



Cashier
Subscription Billing



Dusk
Browser Testing and Automation



Passport
Painless OAuth2 Implementation



Scout
Full-Text Search



Socialite
OAuth Authentication

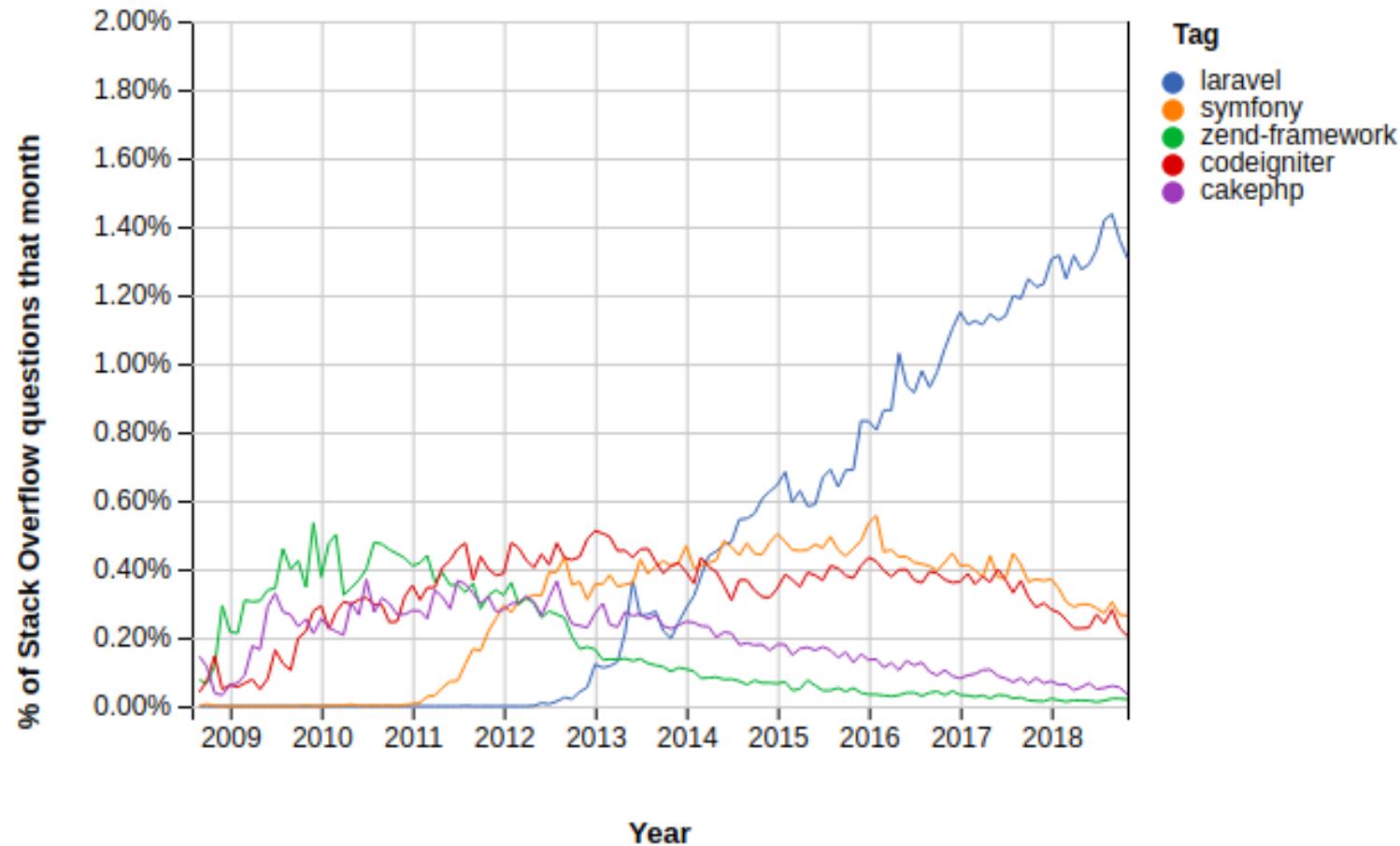


Telescope
Debug Assistant



Tinker
Interactive REPL

Laravel Framework



Laravel Framework

- Laravel 8.x

- **PHP** >= 7.3
- **BCMath** PHP Extension
- **Ctype** PHP Extension
- **JSON** PHP Extension
- **Mbstring** PHP Extension
- **OpenSSL** PHP Extension
- **PDO** PHP Extension
- **Tokenizer** PHP Extension
- **XML** PHP Extension

Laravel Framework

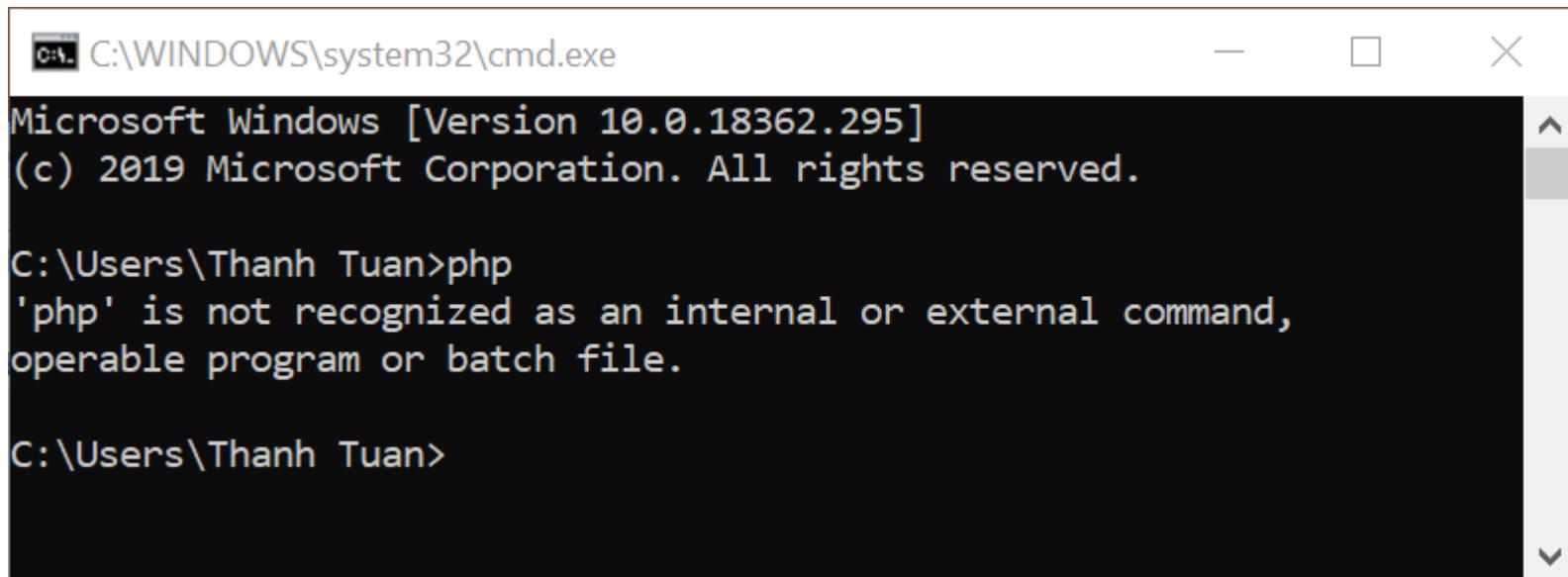
- Cài đặt môi trường phát triển ứng dụng Laravel
 - PHP
 - MySQL
 - Composer



<https://getcomposer.org/Composer-Setup.exe>

Laravel Framework

- Cài đặt biến môi trường cho lệnh **php**



```
C:\WINDOWS\system32\cmd.exe
Microsoft Windows [Version 10.0.18362.295]
(c) 2019 Microsoft Corporation. All rights reserved.

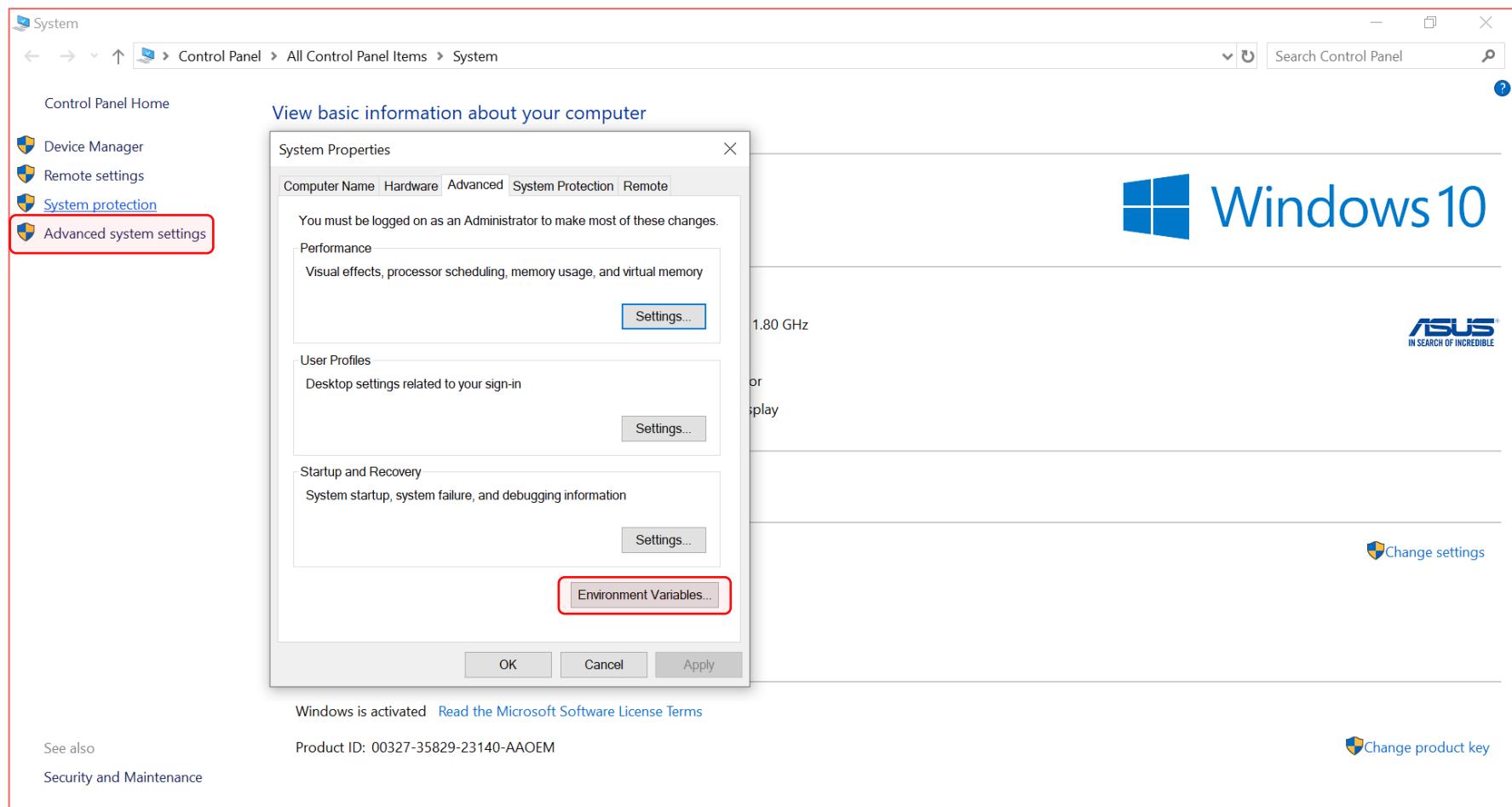
C:\Users\Thanh Tuan>php
'php' is not recognized as an internal or external command,
operable program or batch file.

C:\Users\Thanh Tuan>
```

Chưa có lệnh **php**

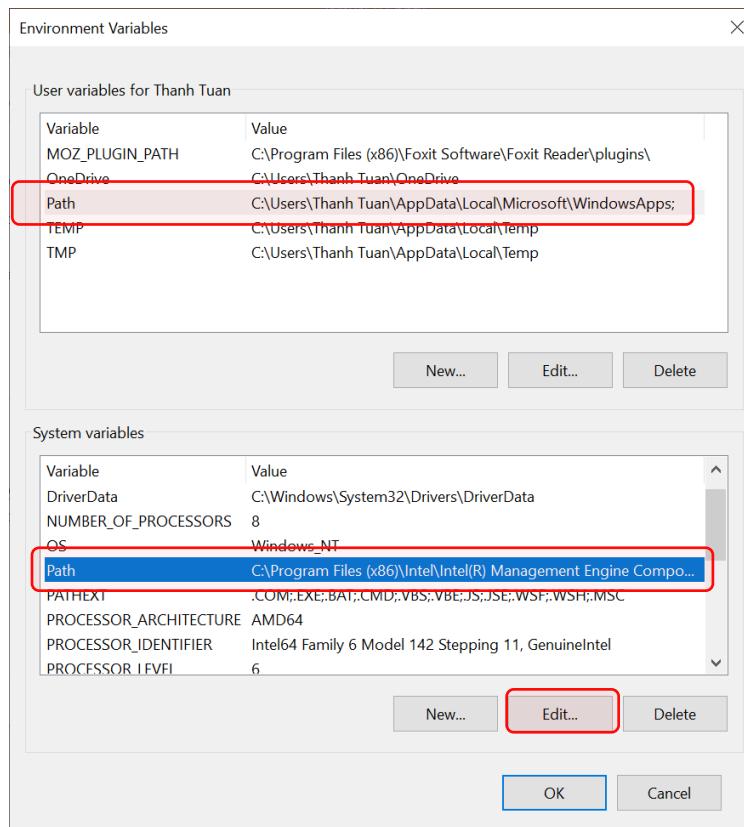
Laravel Framework

- Cài đặt biến môi trường cho lệnh **php**



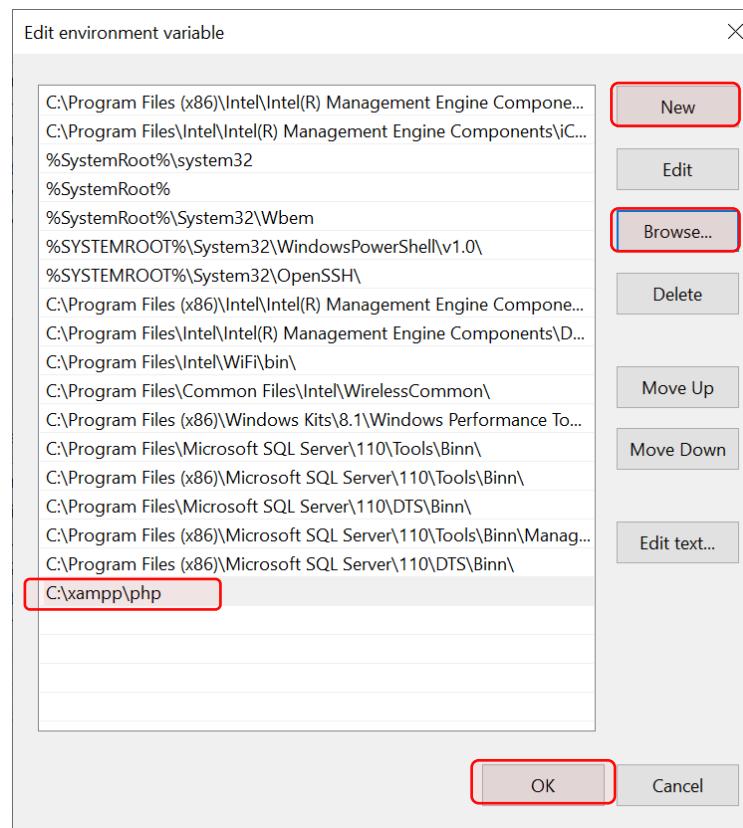
Laravel Framework

- Cài đặt biến môi trường cho lệnh **php**



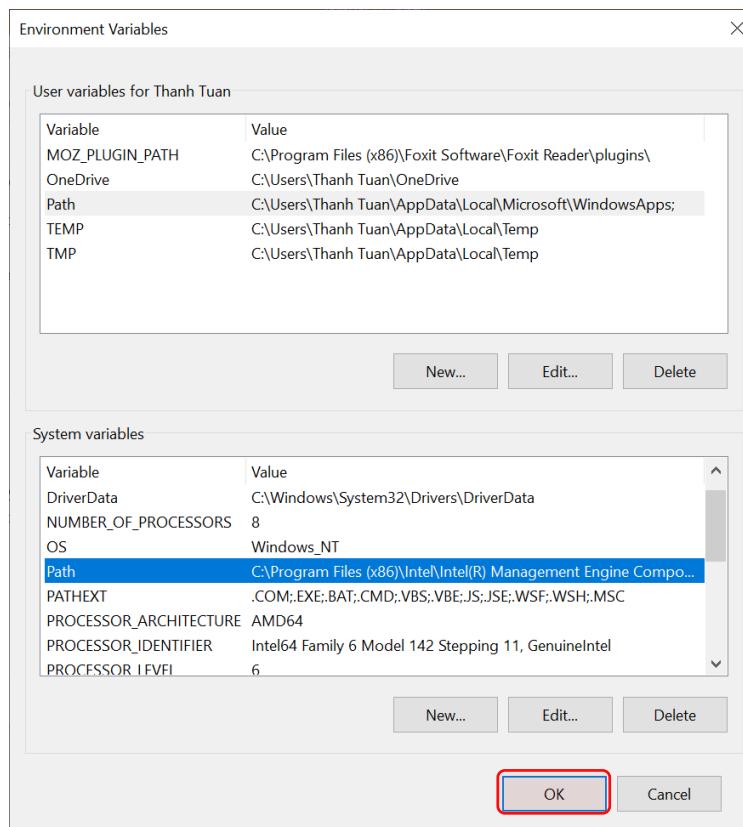
Laravel Framework

- Cài đặt biến môi trường cho lệnh **php**



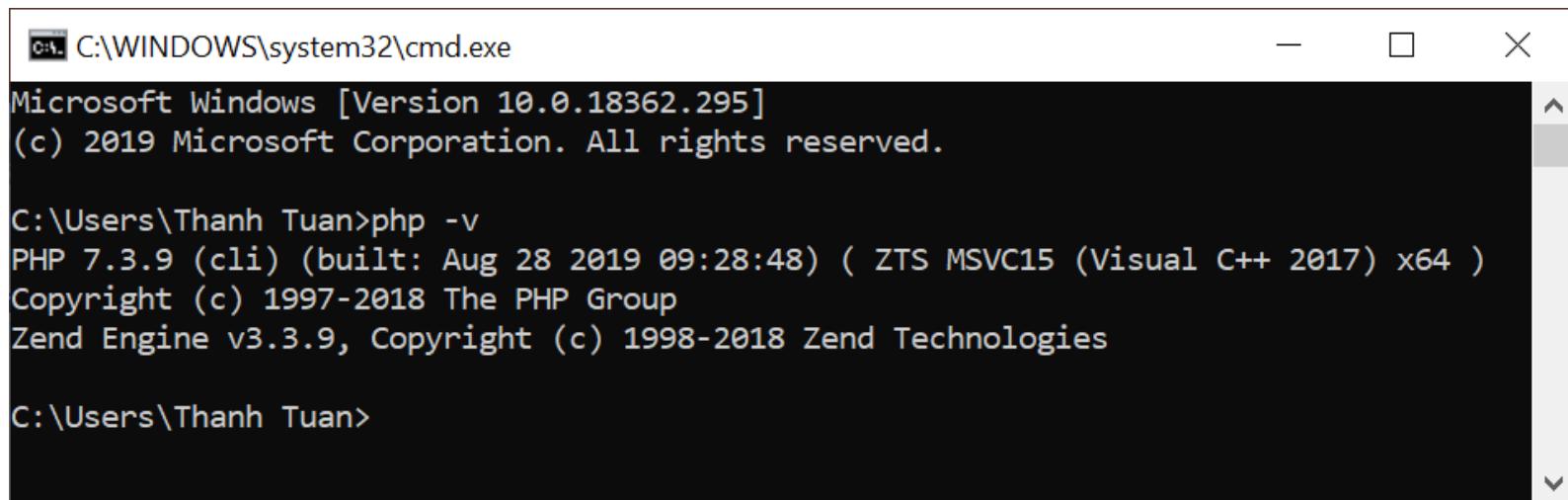
Laravel Framework

- Cài đặt biến môi trường cho lệnh **php**



Laravel Framework

- Cài đặt biến môi trường cho lệnh **php**



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(c) 2019 Microsoft Corporation. All rights reserved.

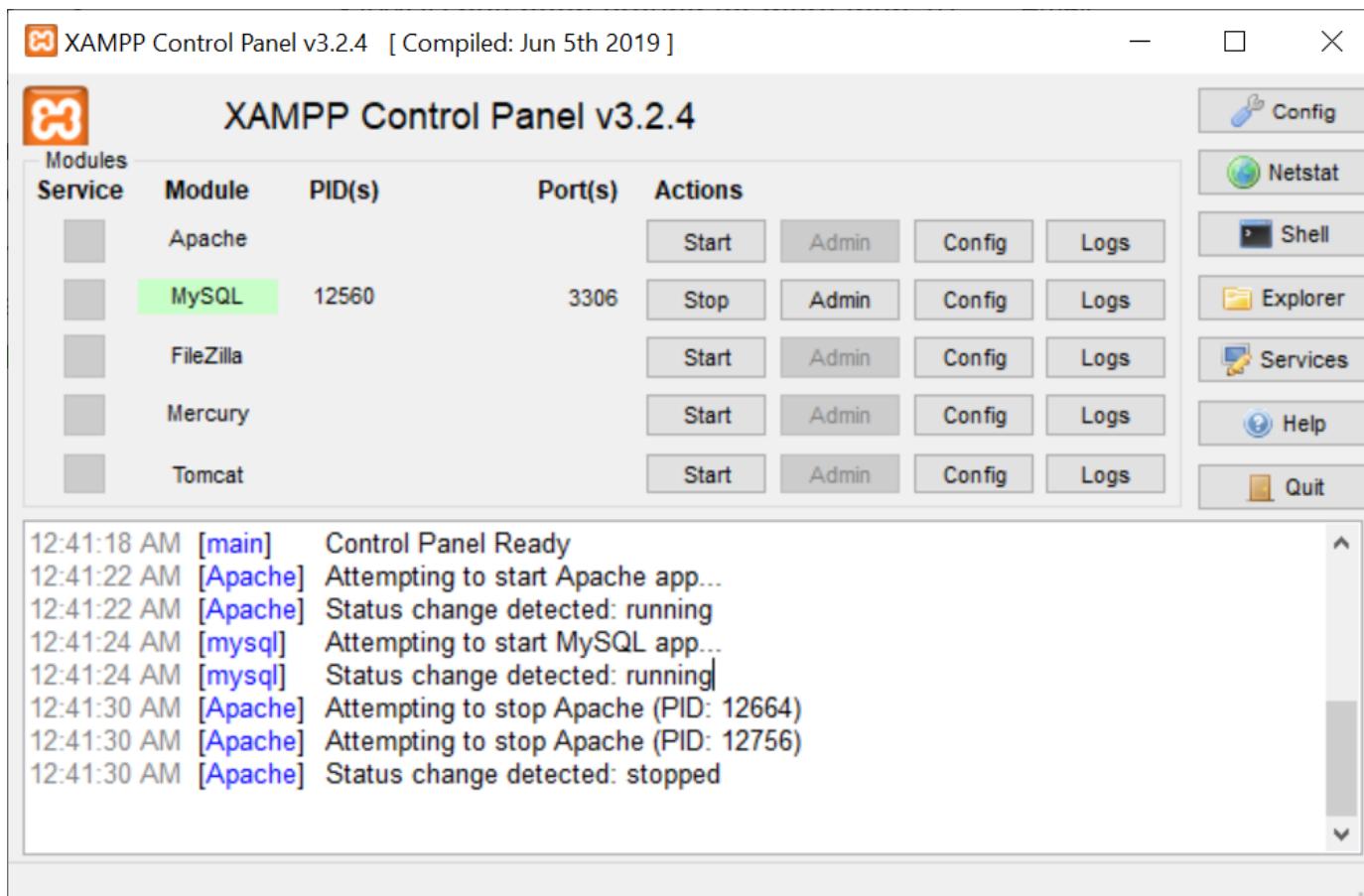
C:\Users\Thanh Tuan>php -v
PHP 7.3.9 (cli) (built: Aug 28 2019 09:28:48) ( ZTS MSVC15 (Visual C++ 2017) x64 )
Copyright (c) 1997-2018 The PHP Group
Zend Engine v3.3.9, Copyright (c) 1998-2018 Zend Technologies

C:\Users\Thanh Tuan>
```

Đã có lệnh **php**

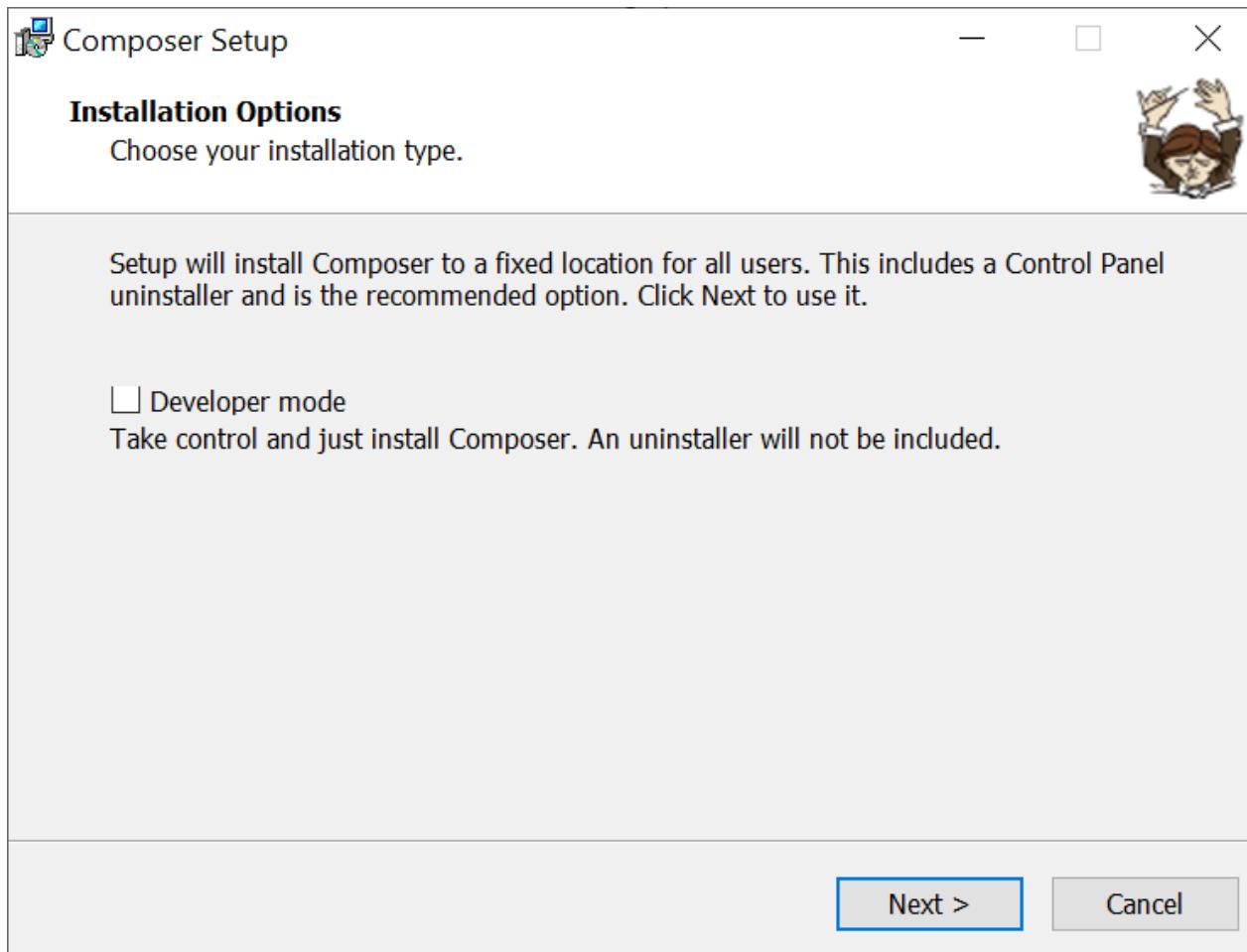
Laravel Framework

- Khởi động mysql



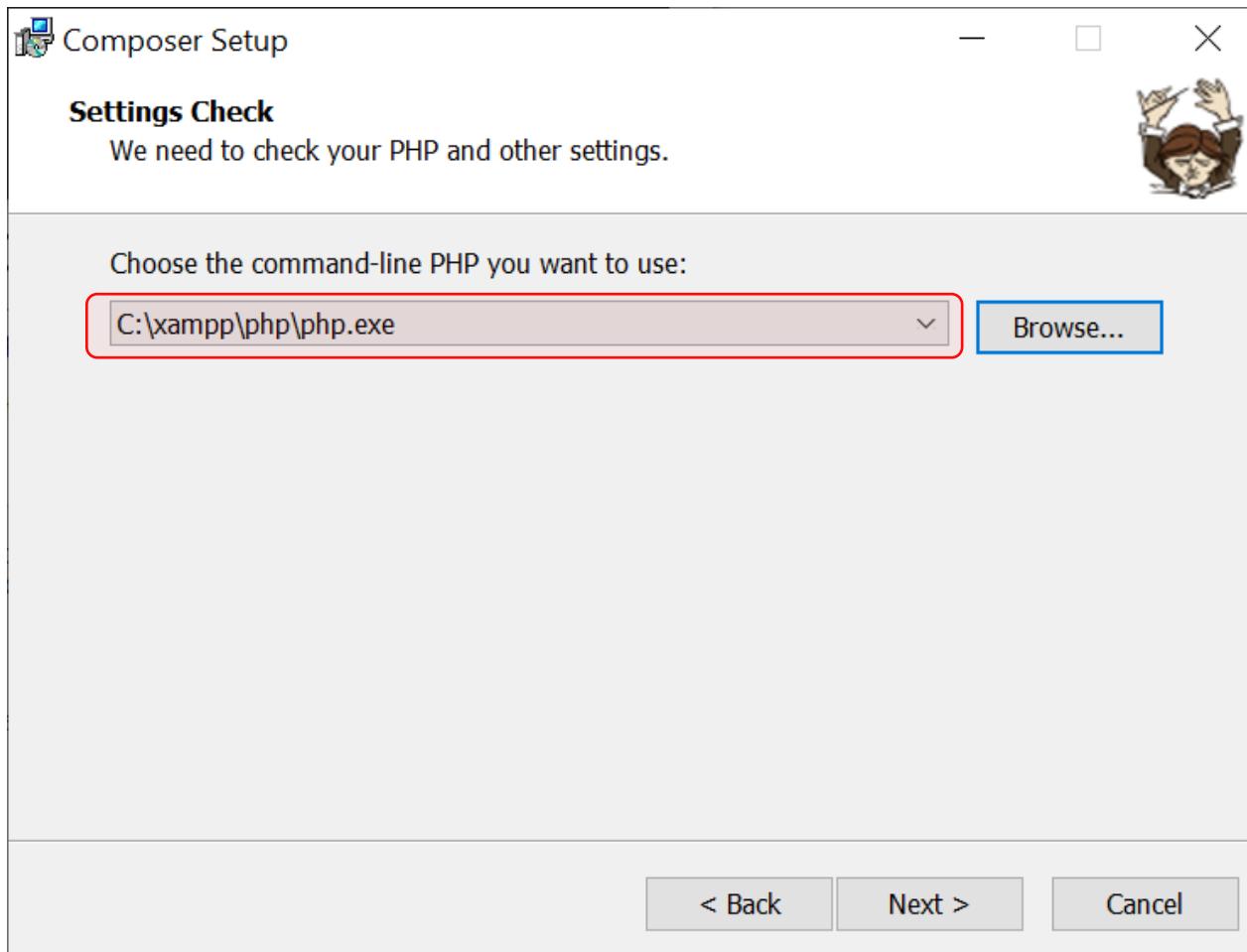
Laravel Framework

- Cài đặt Composer



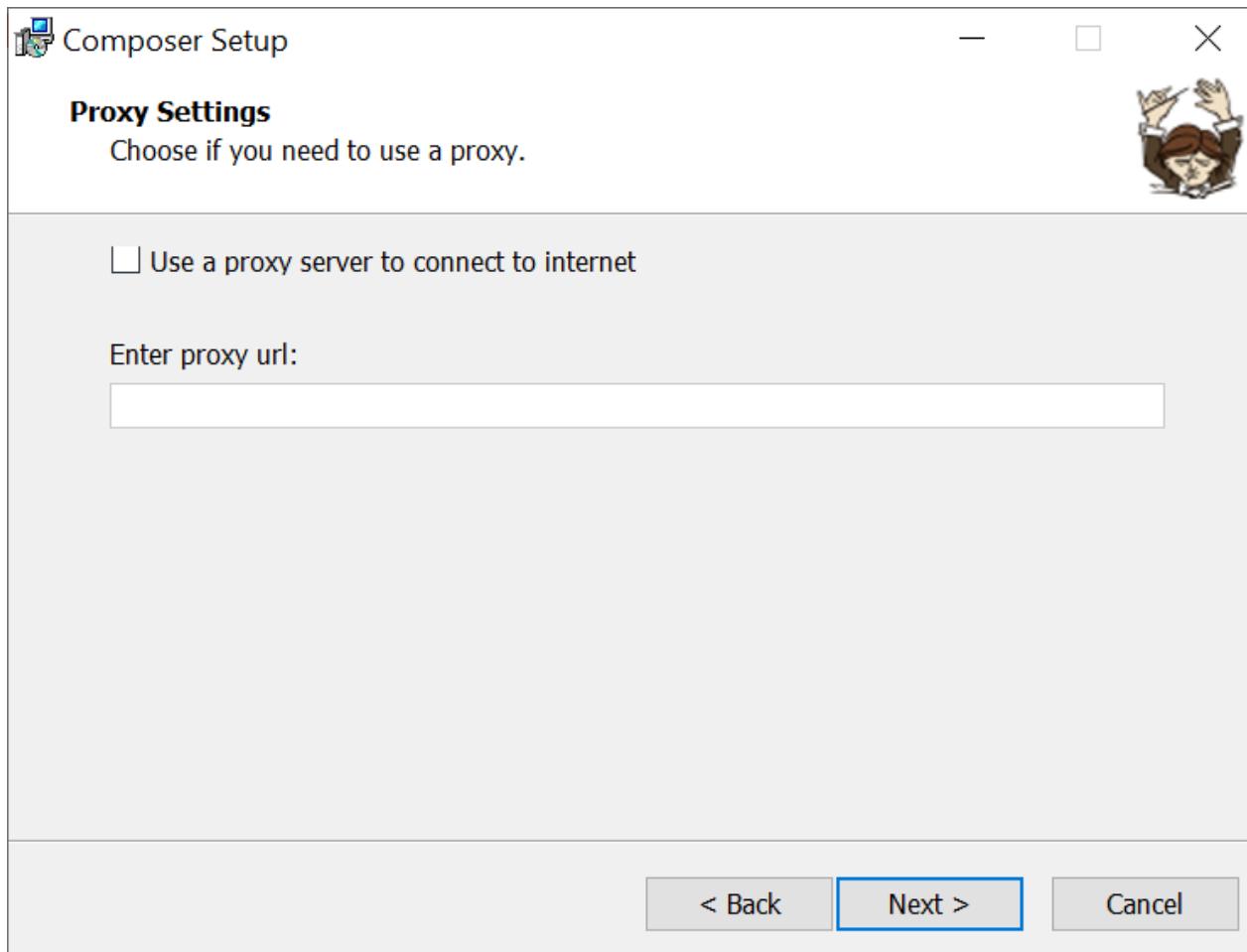
Laravel Framework

- Cài đặt Composer



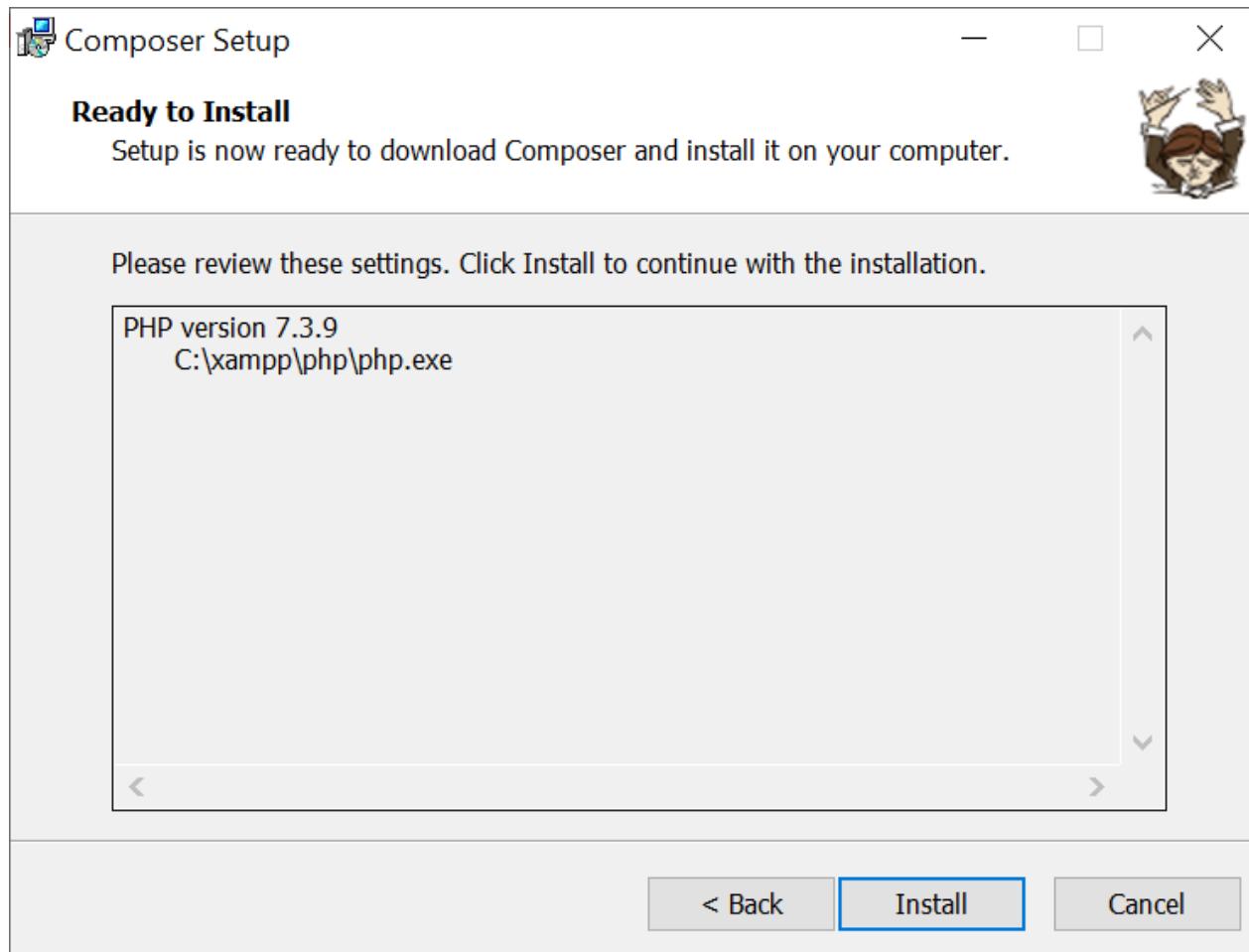
Laravel Framework

- Cài đặt Composer



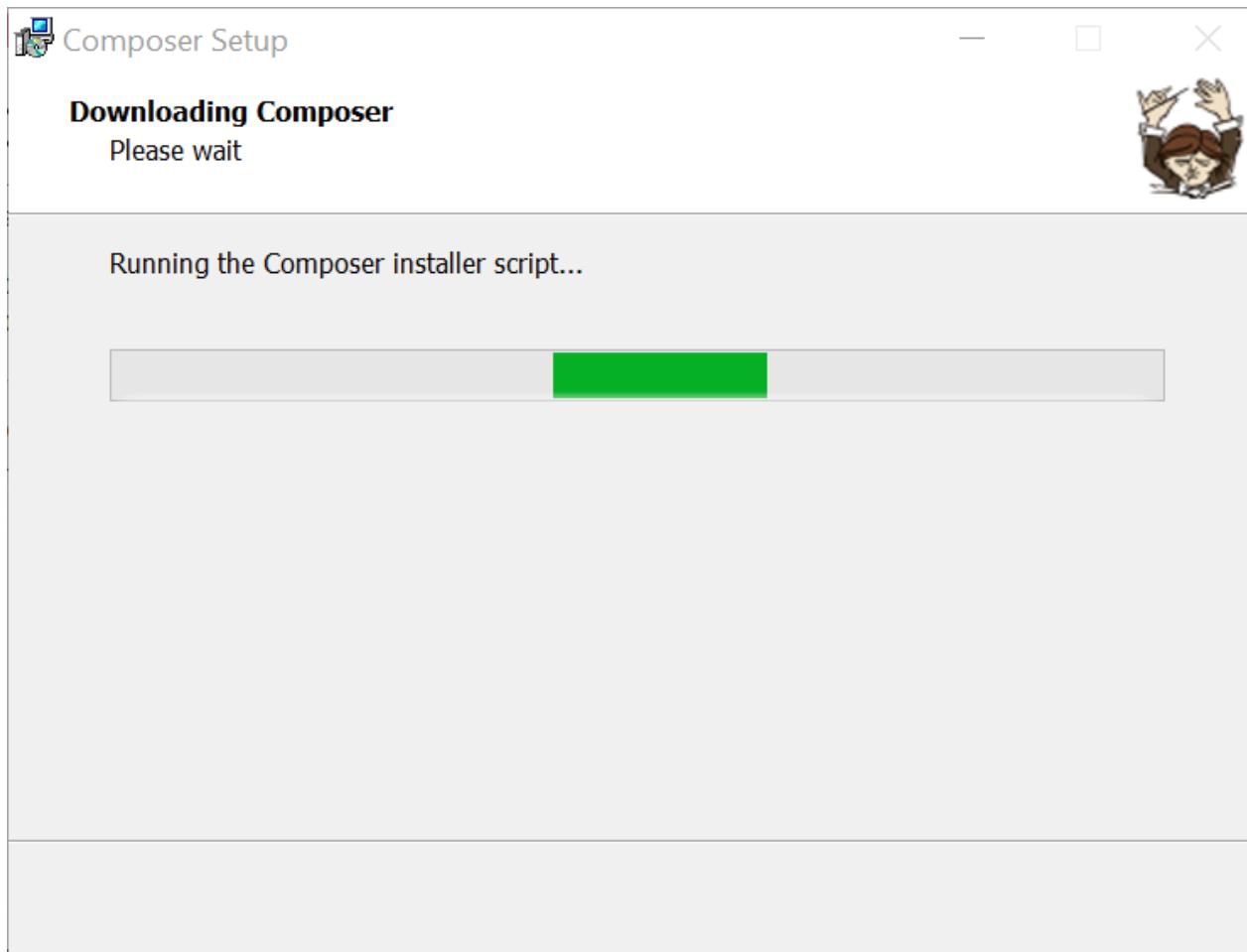
Laravel Framework

- Cài đặt Composer



Laravel Framework

- Cài đặt Composer



Laravel Framework

- Cài đặt Composer

 Composer Setup

Information

Please read the following information before continuing.



Important

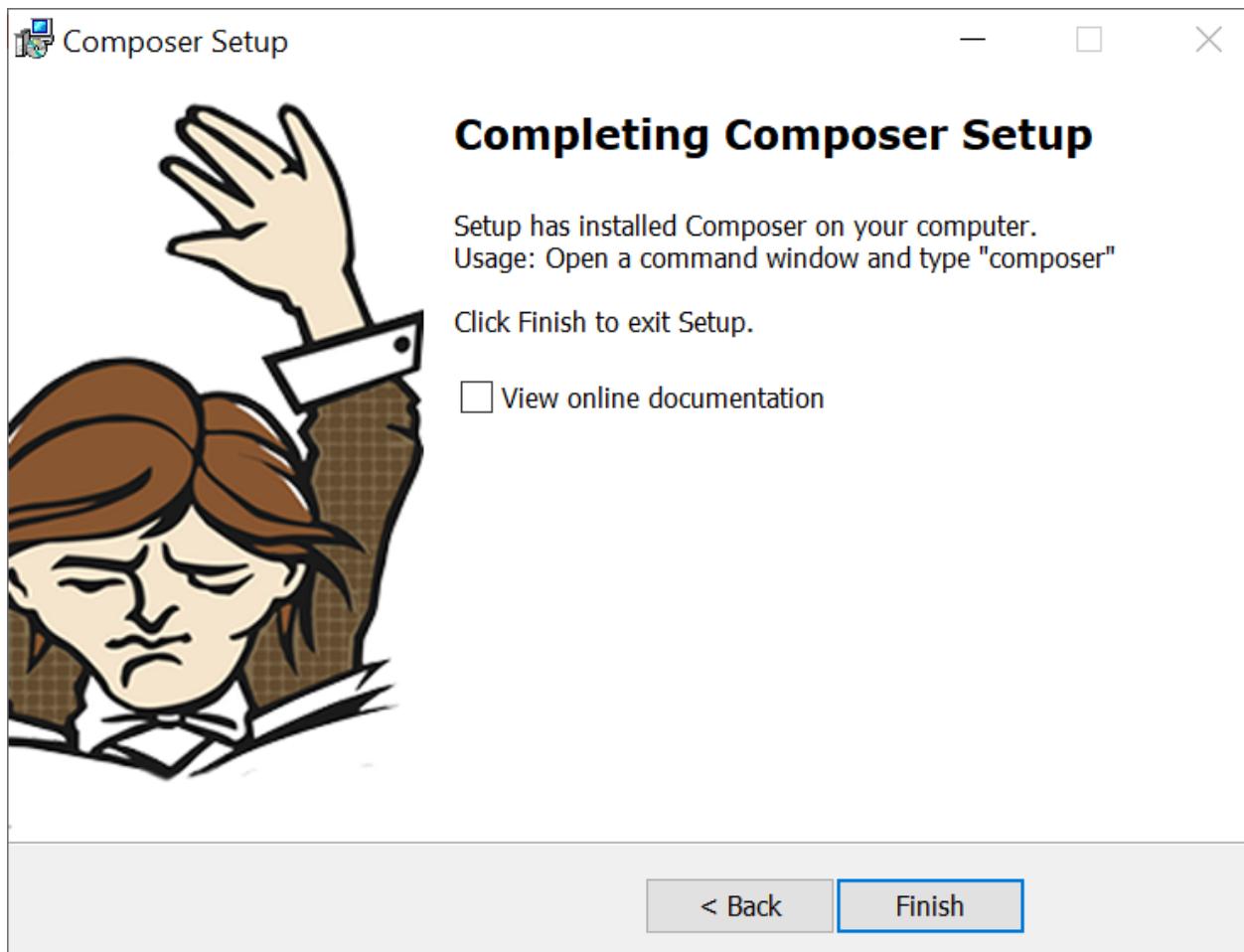
Setup has changed your environment, but not all running programs will be aware of this. To use Composer for the first time, you will have to do one of the following:

- Open a new command window.
- Close all File Explorer windows, then open a new command window.
- Logoff and Logon again, then open a new command window.

[Next >](#)

Laravel Framework

- Cài đặt Composer



Laravel Framework

- ## • Cài đặt Composer

Laravel Framework

- Tạo project Laravel
 - Cách 1: sử dụng Laravel Command

```
laravel new <tên_project>
```

Lưu ý: phải cài đặt Laravel Command trước bằng câu lệnh:
composer global require laravel/installer

- Cách 2: sử dụng Composer

```
composer create-project laravel/laravel[:phiên_bản_Laravel]  
<tên_project>
```

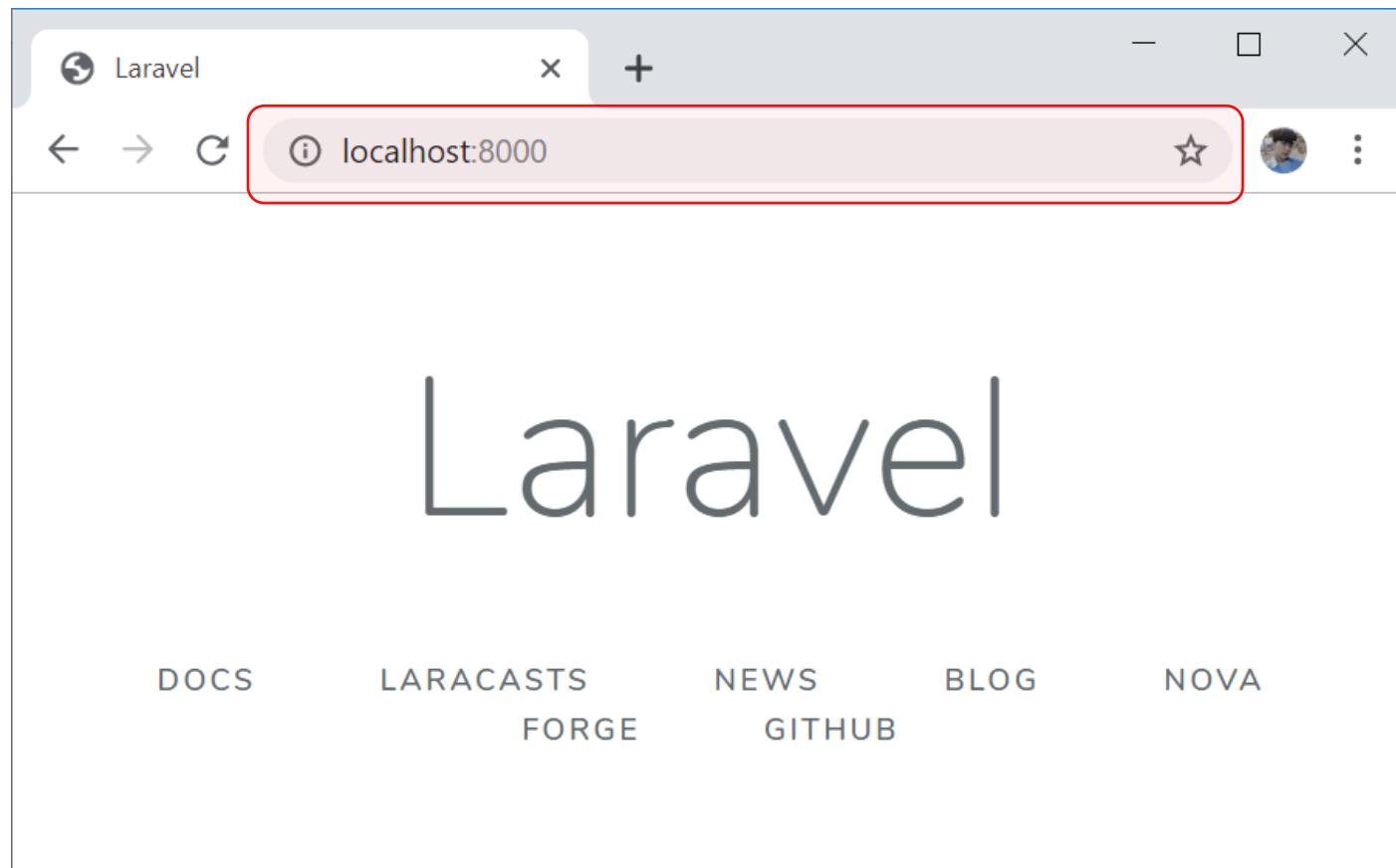
Ví dụ: tạo project Laravel **8** có tên **my-project**

```
composer create-project laravel/Laravel:^8.0 my-project
```

Laravel Framework

- Chạy ứng dụng Laravel

php artisan serve



Laravel Framework

- **Lưu ý:**

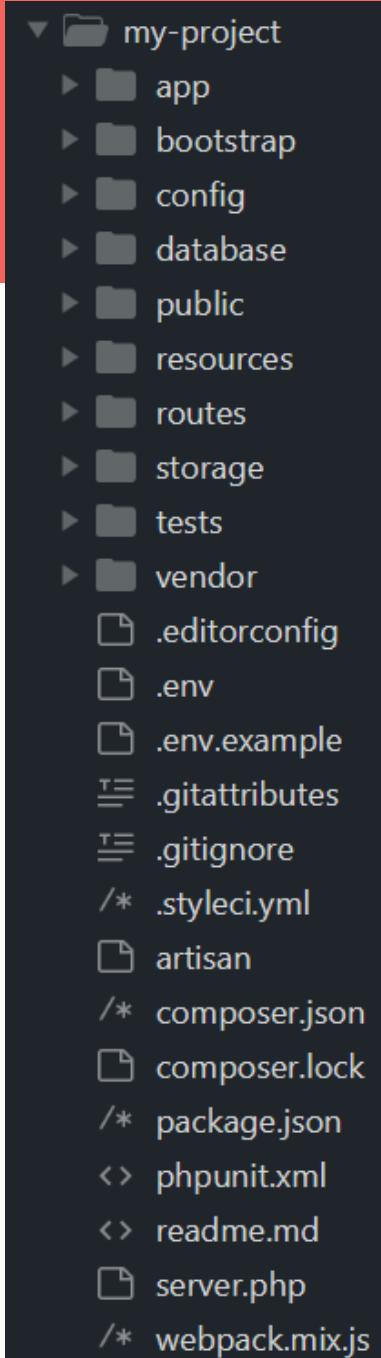
- Thiết lập quyền ghi cho thư mục:
 - storage
 - bootstrap/cache
- Tạo Application Key
 - Lệnh: `php artisan key:generate`
 - Key là chuỗi 32 ký tự, được lưu trong tập tin `.env`

Ví dụ:

```
APP_KEY=base64:tNOS85aNNhDOmiB3M5nmfqVF9XH9tchXBLi  
X9WXdQo0=
```

Laravel Framework

- Cấu trúc thư mục project Laravel
 - app
 - config
 - database
 - public
 - resources
 - routes
 - vendor
 - Tập tin .env



Laravel Framework

- Trình soạn thảo mã nguồn:

