Fpt University

FPT POLYTECHNIC

LARAVEL FRAMEWORK

BÀI 1: TỔNG QUAN LARAVEL FRAMEWORK

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Mục tiêu

- Hiểu rõ Laravel Framework
- Cài đặt,cấu hình và chạy ứng dụng đầu tiên

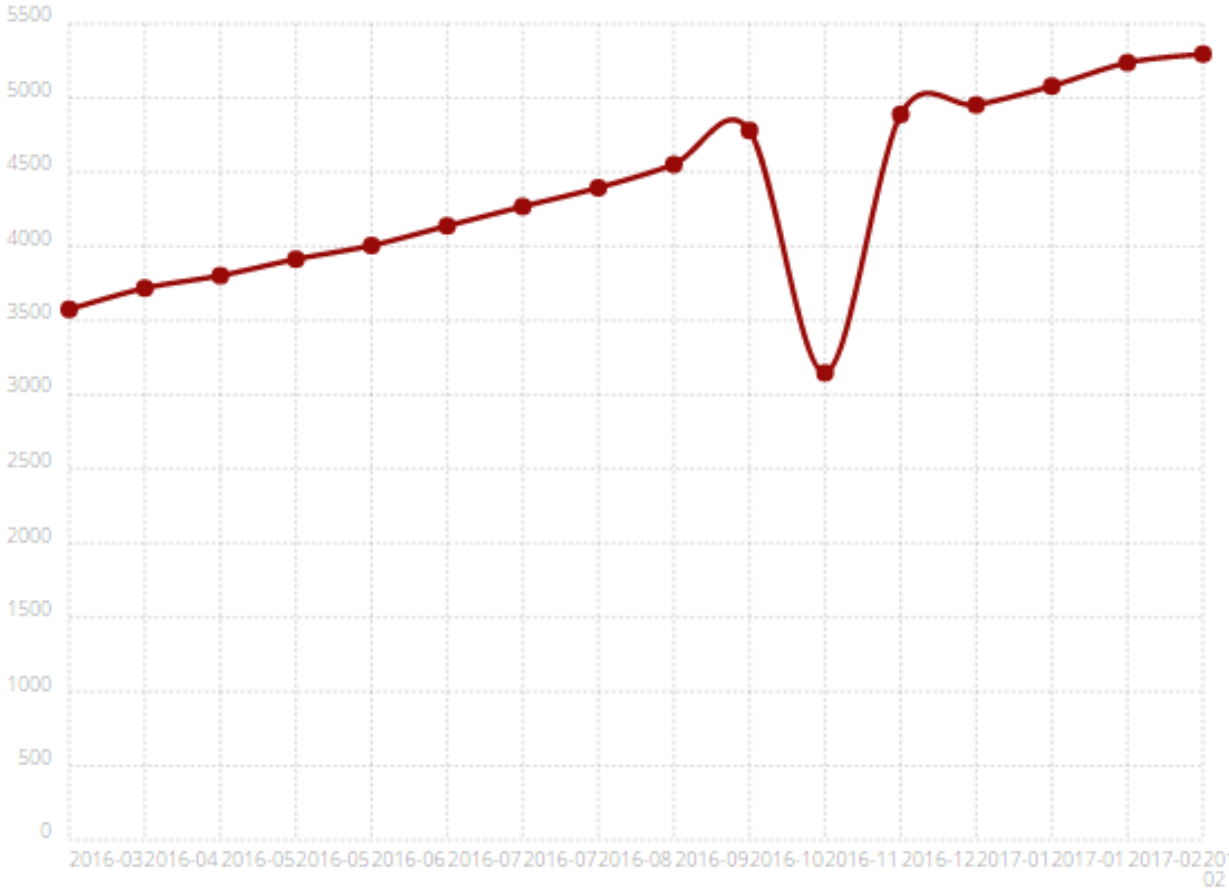
NỘI DUNG

- Phần I: Giới thiệu về Laravel
  - Tổng quan về Laravel Framework
  - Tính năng trong Laravel
  - Môi trường phát triển
- Phần II: Cài đặt Laravel
  - Cài đặt composer, laravel
  - Tìm hiểu cấu trúc project
  - Tạo web laravel

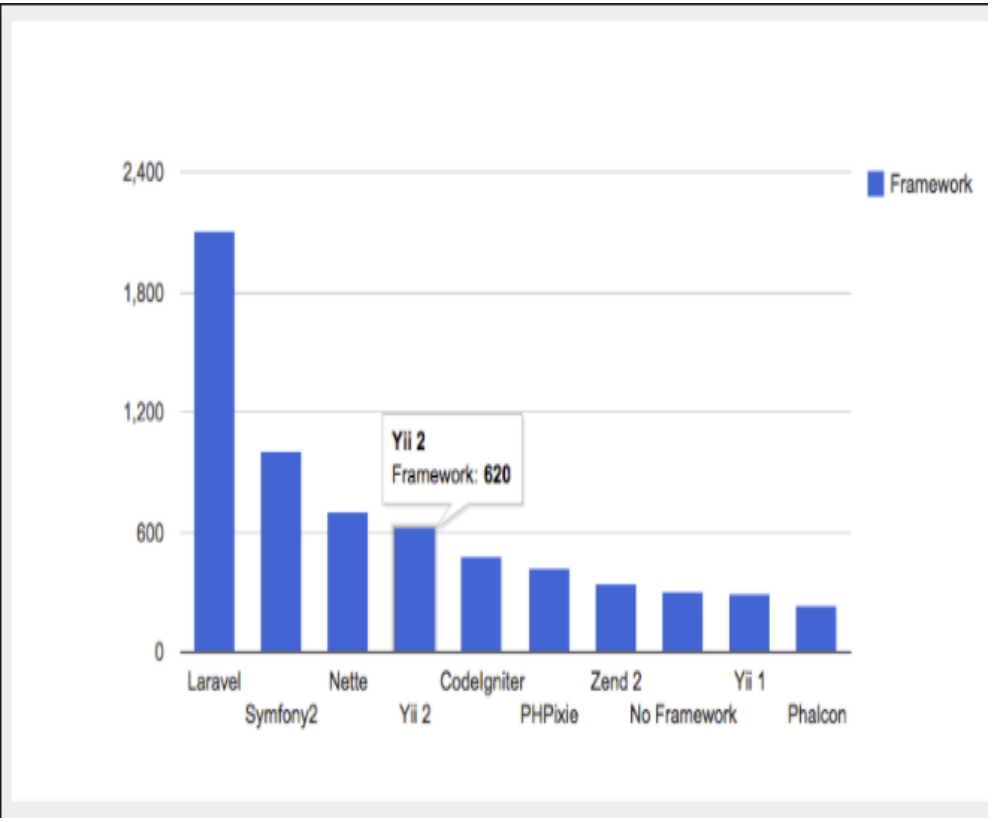
TỔNG QUAN LARAVEL

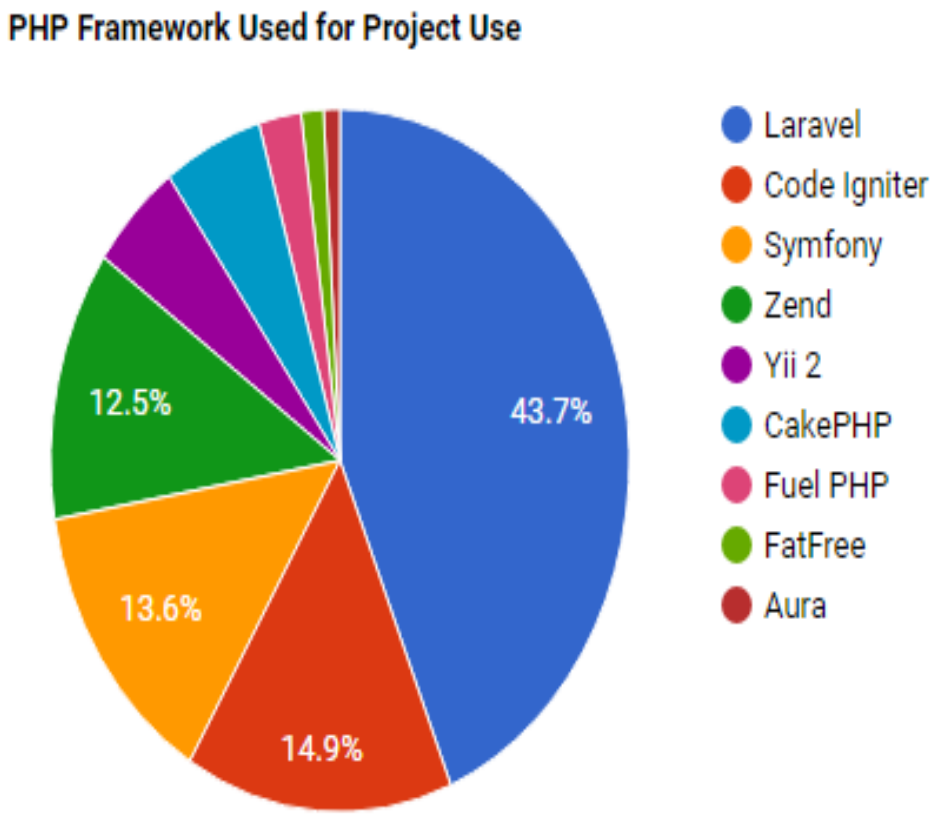
- Laravel là framework mã nguồn mở được tạo ra bằng ngôn ngữ Php và cấp quyền bởi MIT.
- PHP Framework for Web Artisans
- Xây dựng dựa trên Symfony2

- Framework tốt nhất nhiều năm liên tiếp trên Github



- So sánh với các framework khác

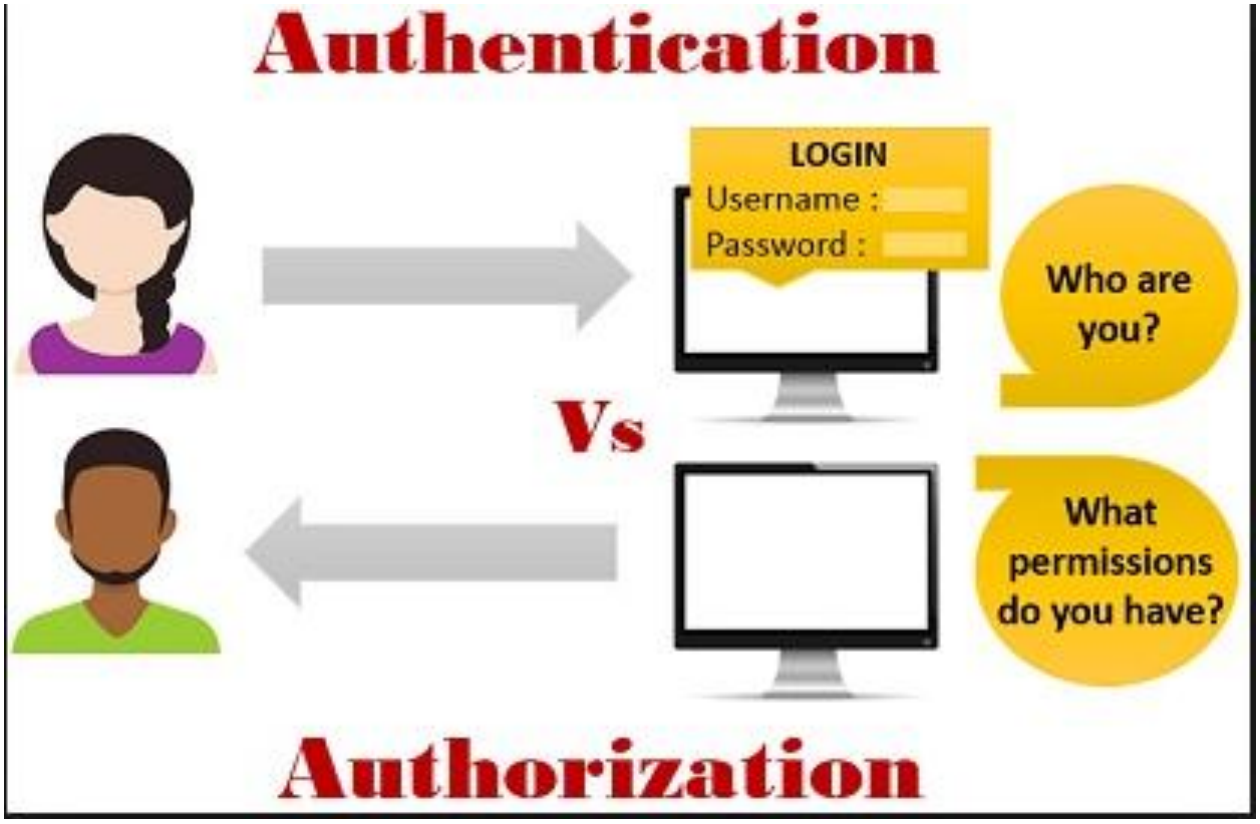




TÍNH NĂNG TRONG LARAVEL

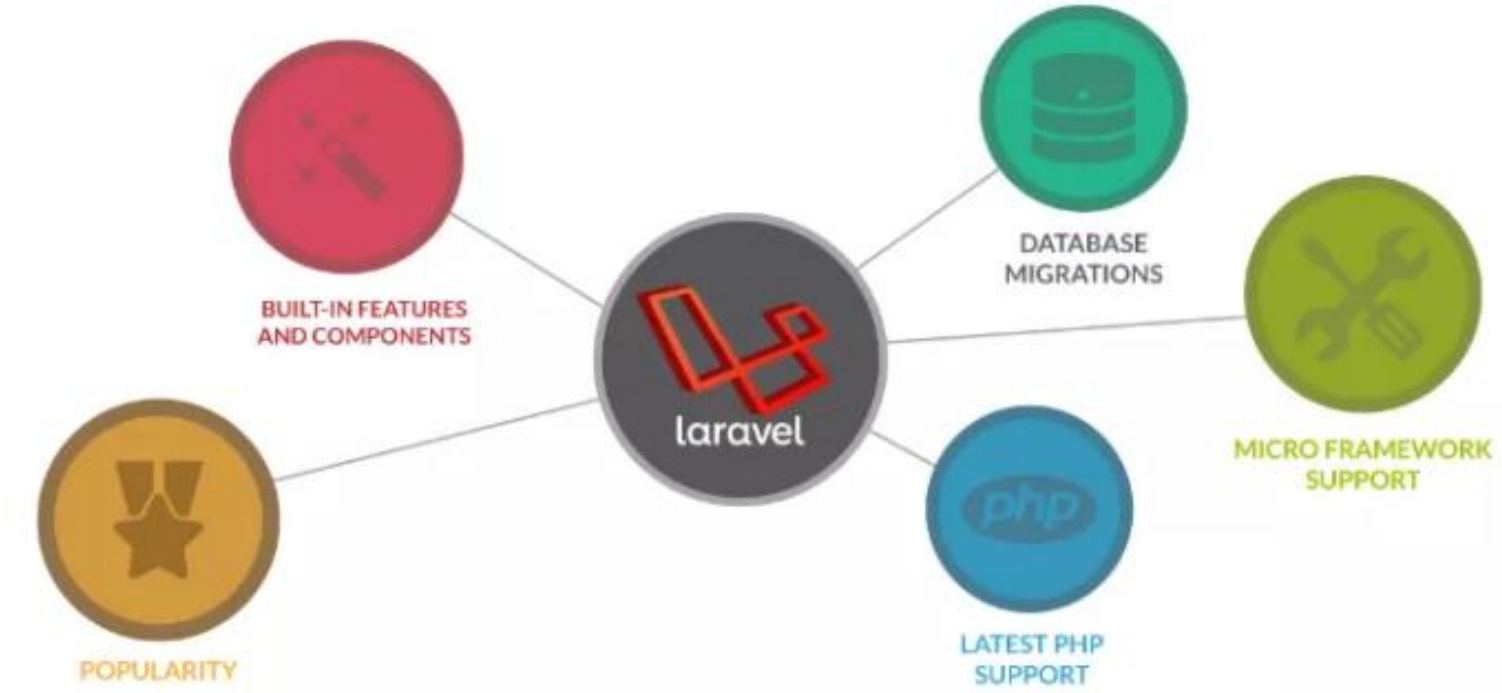
- Các tính năng nổi bật
  - Authorization Technique
  - Object-Oriented Libraries
  - Query builder and ORM (**O**bject **R**elational **M**apper)
  - Artisan
  - MVC Support
  - Security
  - Database Migration
  - Great Tutorials (Laracasts)
  - Blade Templating Engine
  - Responsable Interface Automatic Package Discovery
  - Test Driven Development (TDD)

- Authorization Technique

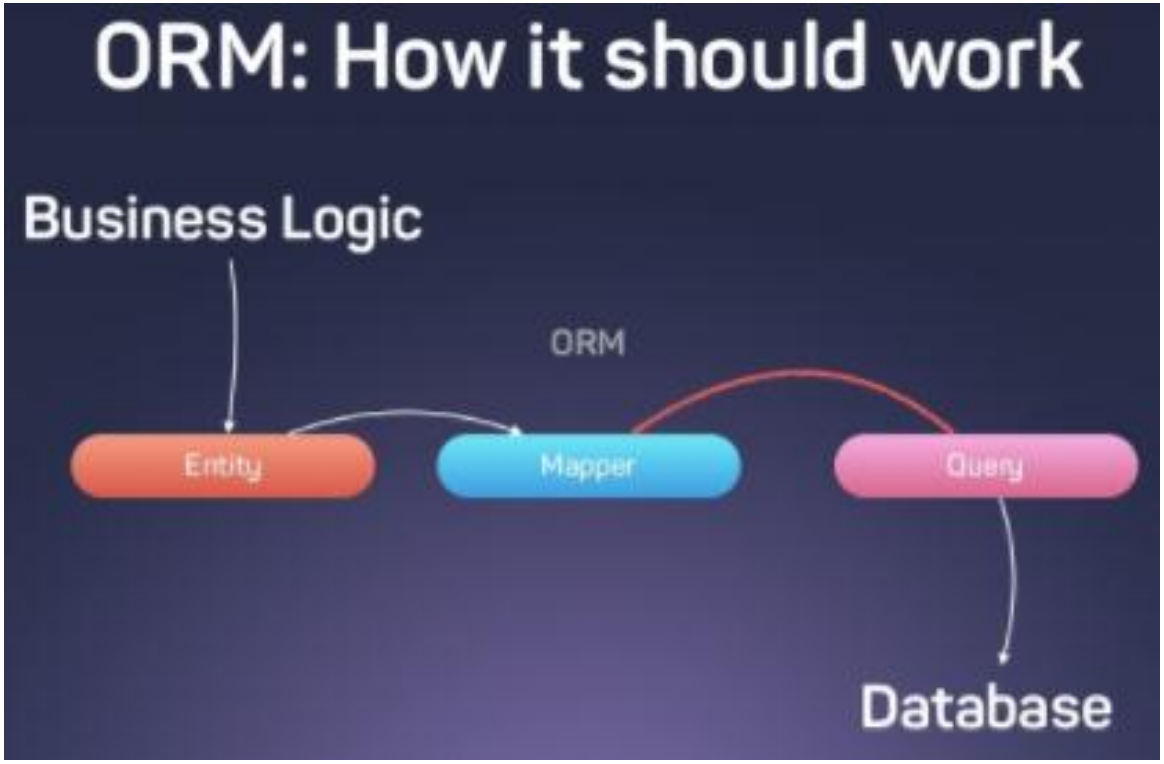


TÍNH NĂNG TRONG LARAVEL

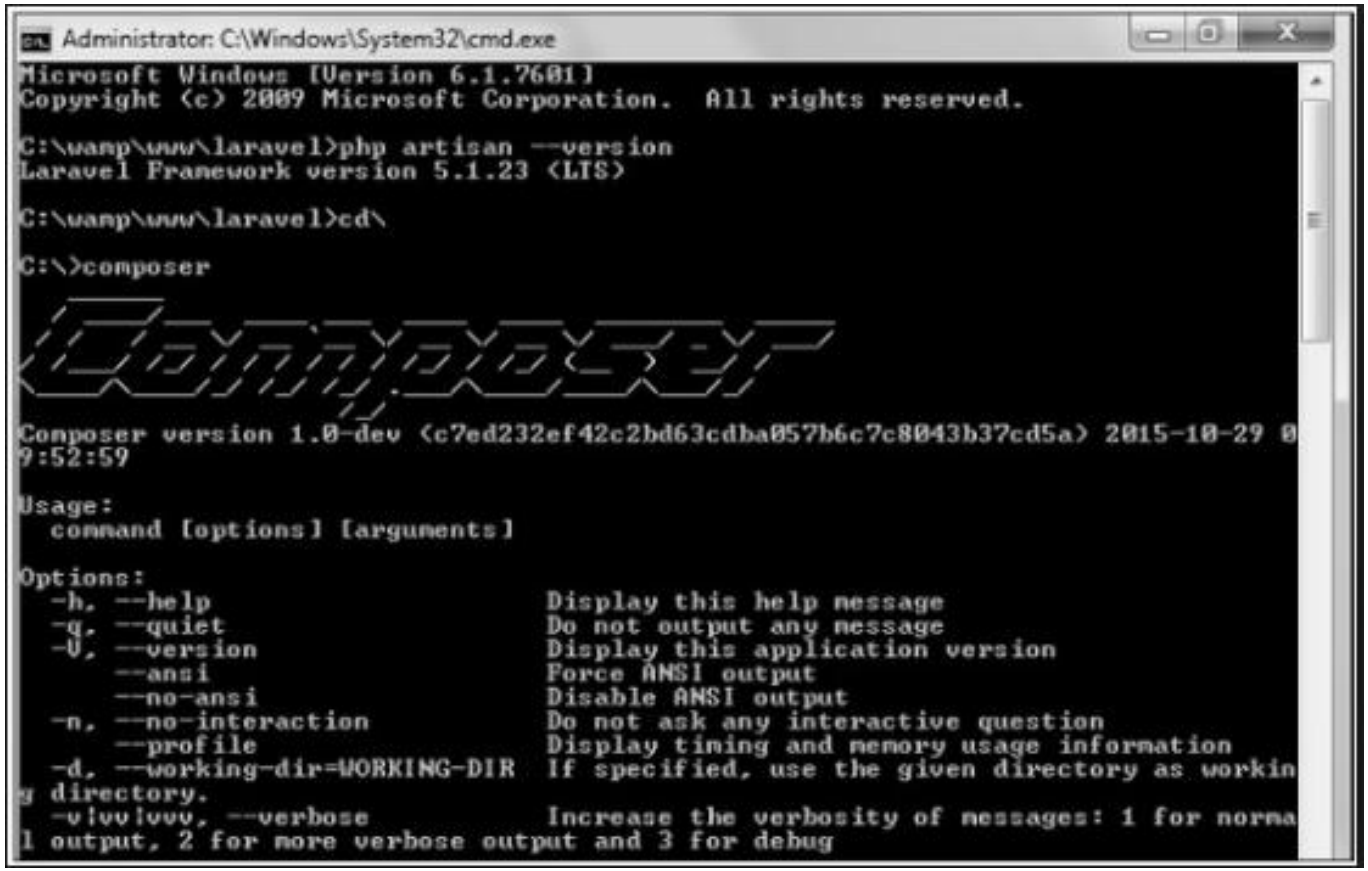
- Object-Oriented Libraries



- Query builder and ORM (**O**bject **R**elational **M**apper)

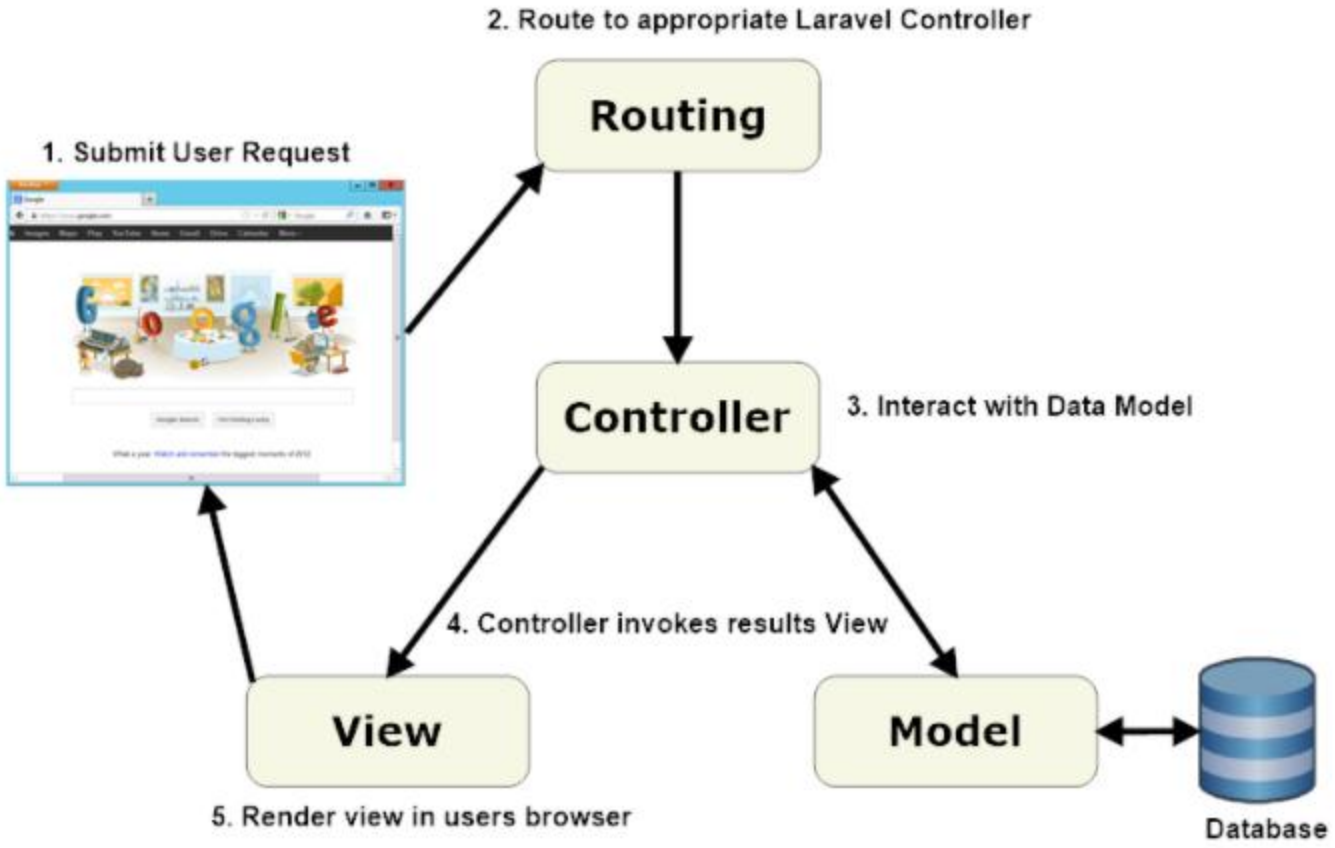


- Artisan


Administrator: C:\Windows\System32\cmd.exe
Microsoft Windows [Version 6.1.7601]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.
C:\wamp\www\laravel>php artisan --version
Laravel Framework version 5.1.23 (LTS)
C:\wamp\www\laravel>cd\
C:\>composer
Composer version 1.0-dev (c7ed232ef42c2bd63cdba057b6c7c8043b37cd5a) 2015-10-29 09:52:59
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
--profile Display timing and memory usage information
-d, --working-dir=WORKING-DIR If specified, use the given directory as working directory.
-v|vv|vvv, --verbose Increase the verbosity of messages: 1 for normal output, 2 for more verbose output and 3 for debug

TÍNH NĂNG TRONG LARAVEL

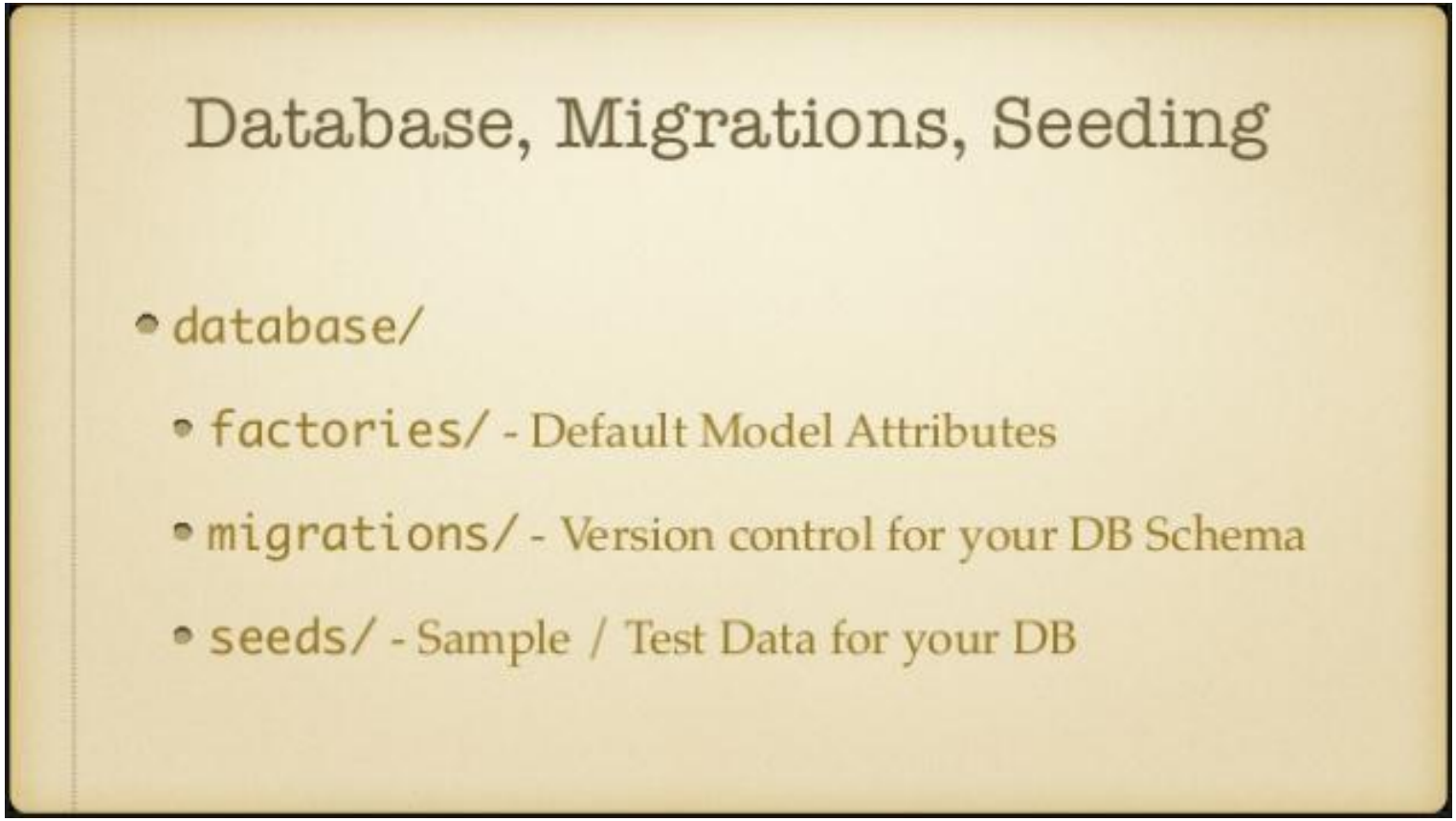
MVC



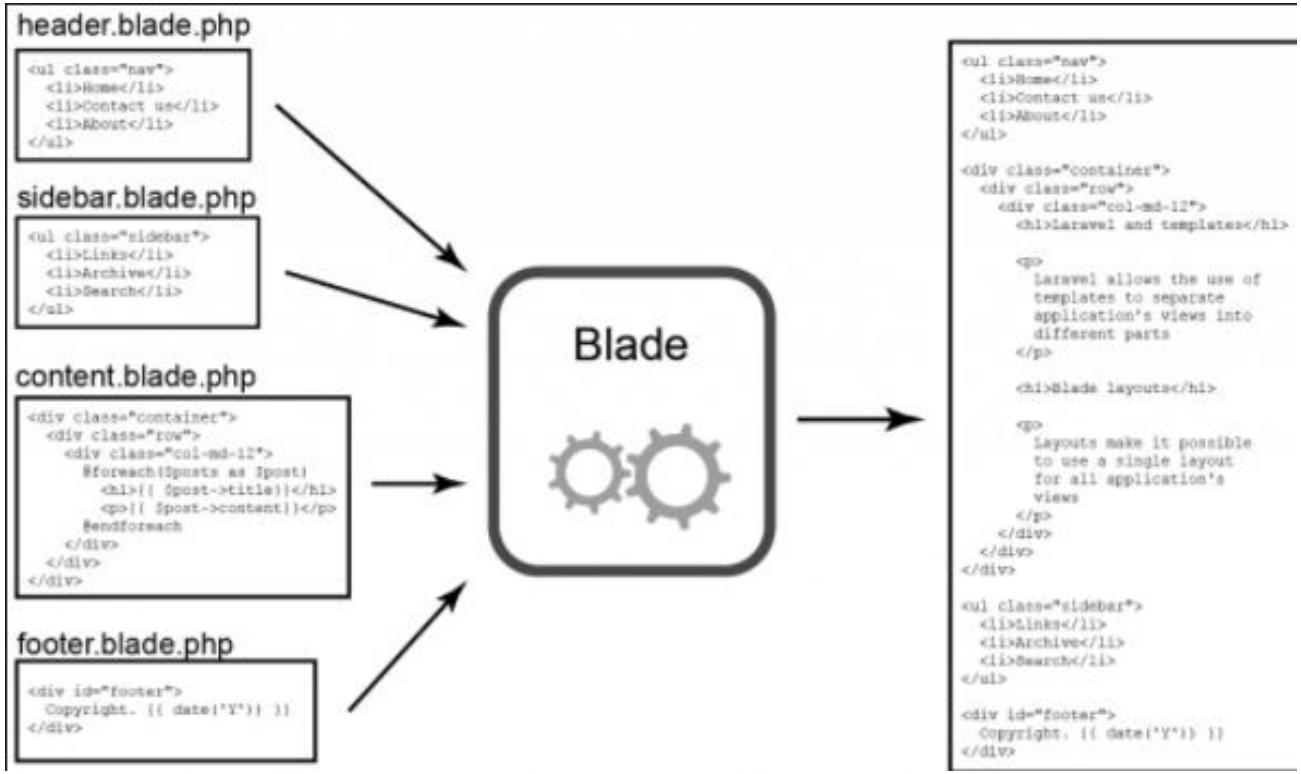
- Security

5 Major
Laravel Security:
Features
Eloquent ORM
Storing Passwords
CSRF Token
Encryption
Routes Protecting

Database Migration

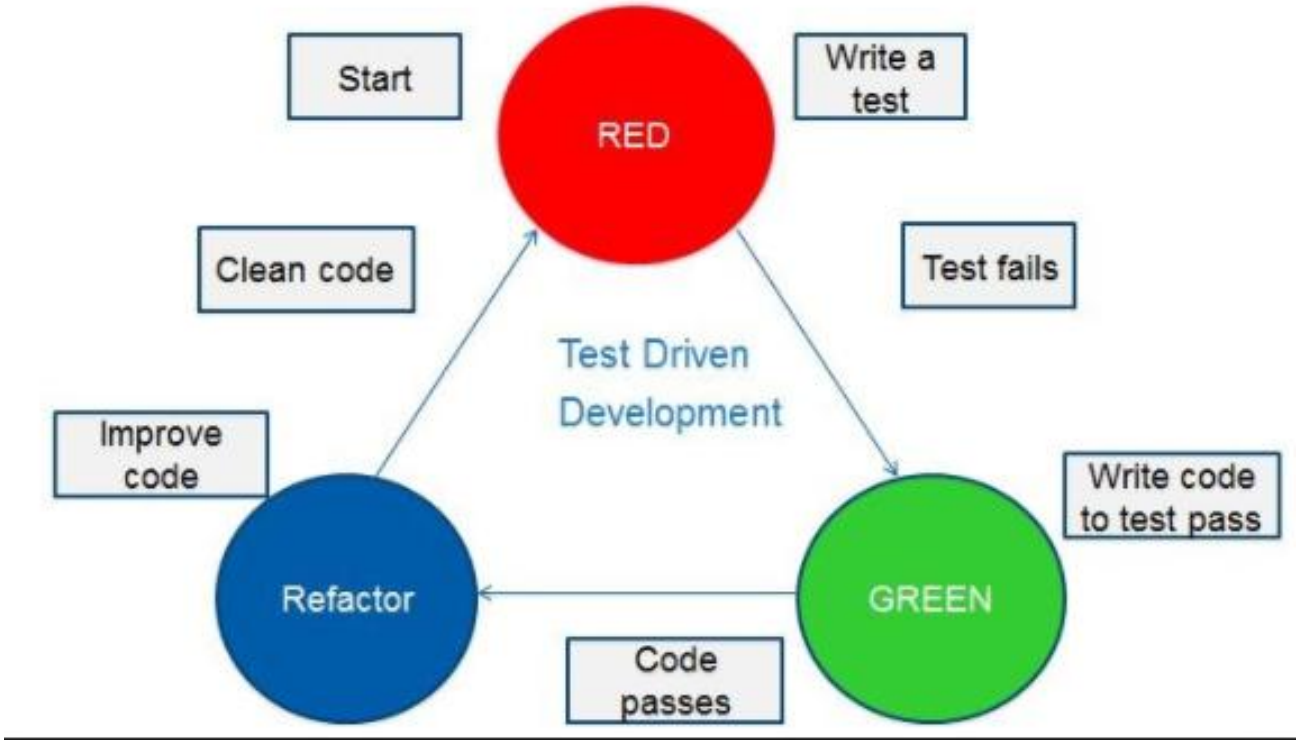


- Blade Templating Engine

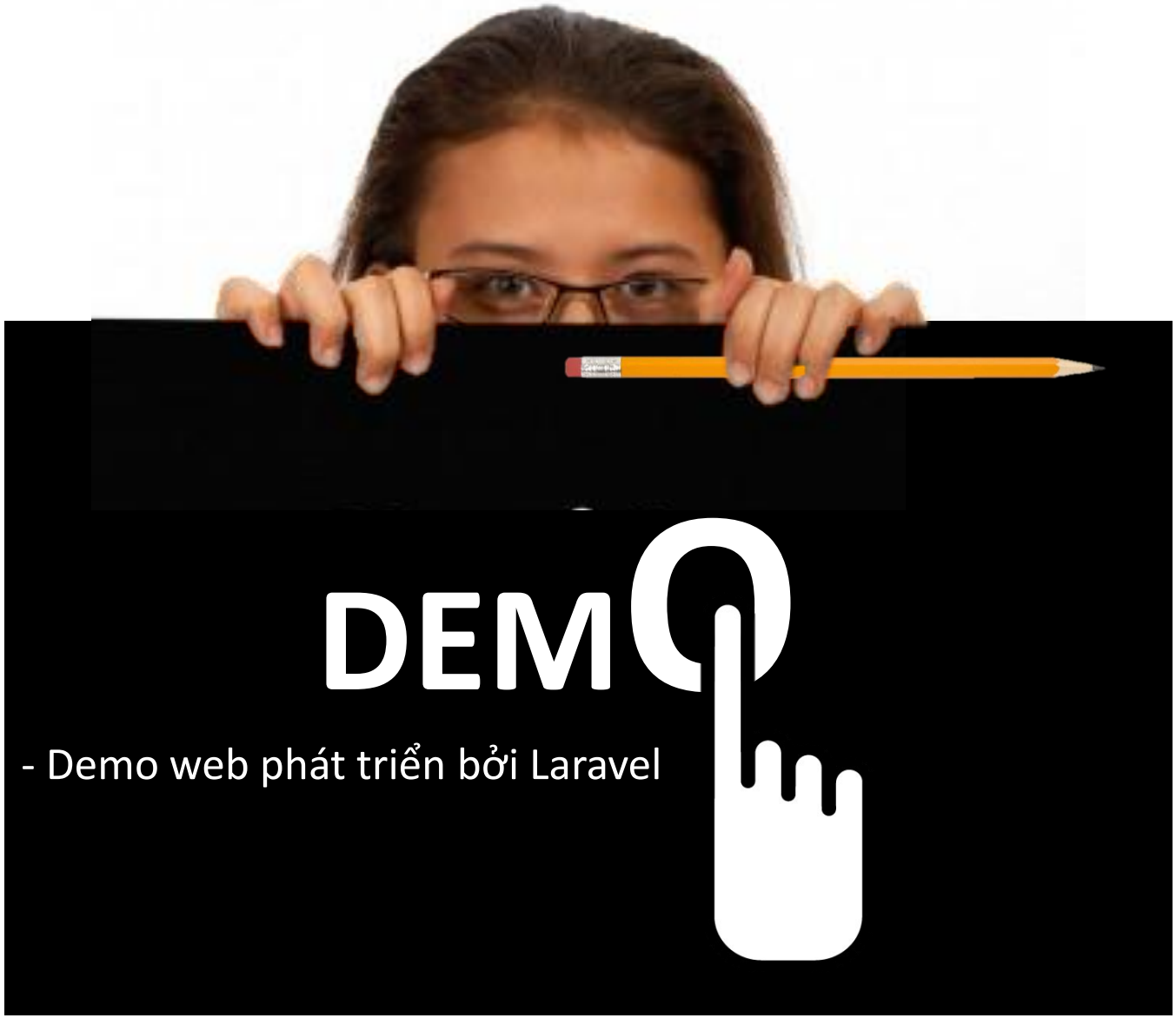


- Responsable Interface Automatic Package Discovery

- Test Driven Development



DEMO



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LARAVEL FRAMEWORK

BÀI 1 (PHẦN 2)

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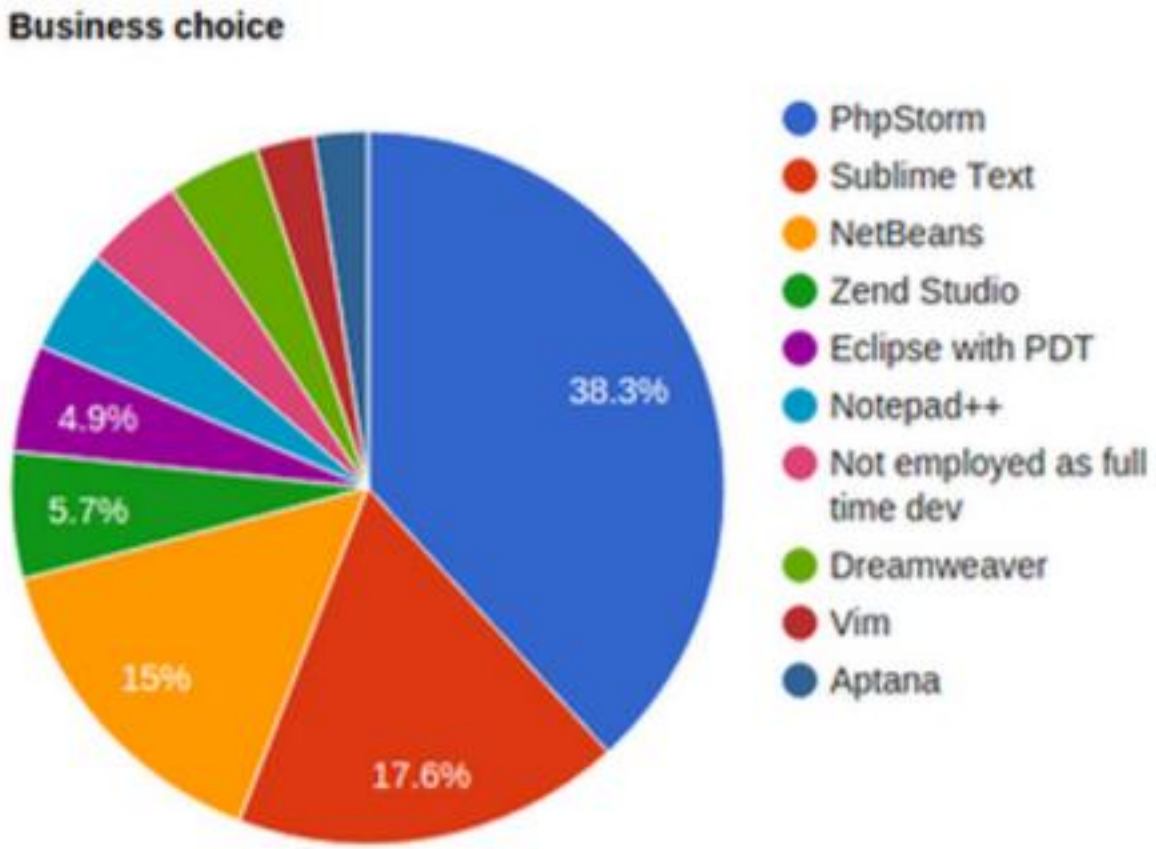
MÔI TRƯỜNG CÀI ĐẶT

- Homestead virtual machine
- Môi trường Local Php
  - A webserver (Apache2/NGINX)
  - PHP 5.4 or above
  - Database engines (MySQL/PostgreSQL/MSSQL)
  - PHP mcrypt extension
  - Composer

MÔI TRƯỜNG CÀI ĐẶT

- IDE

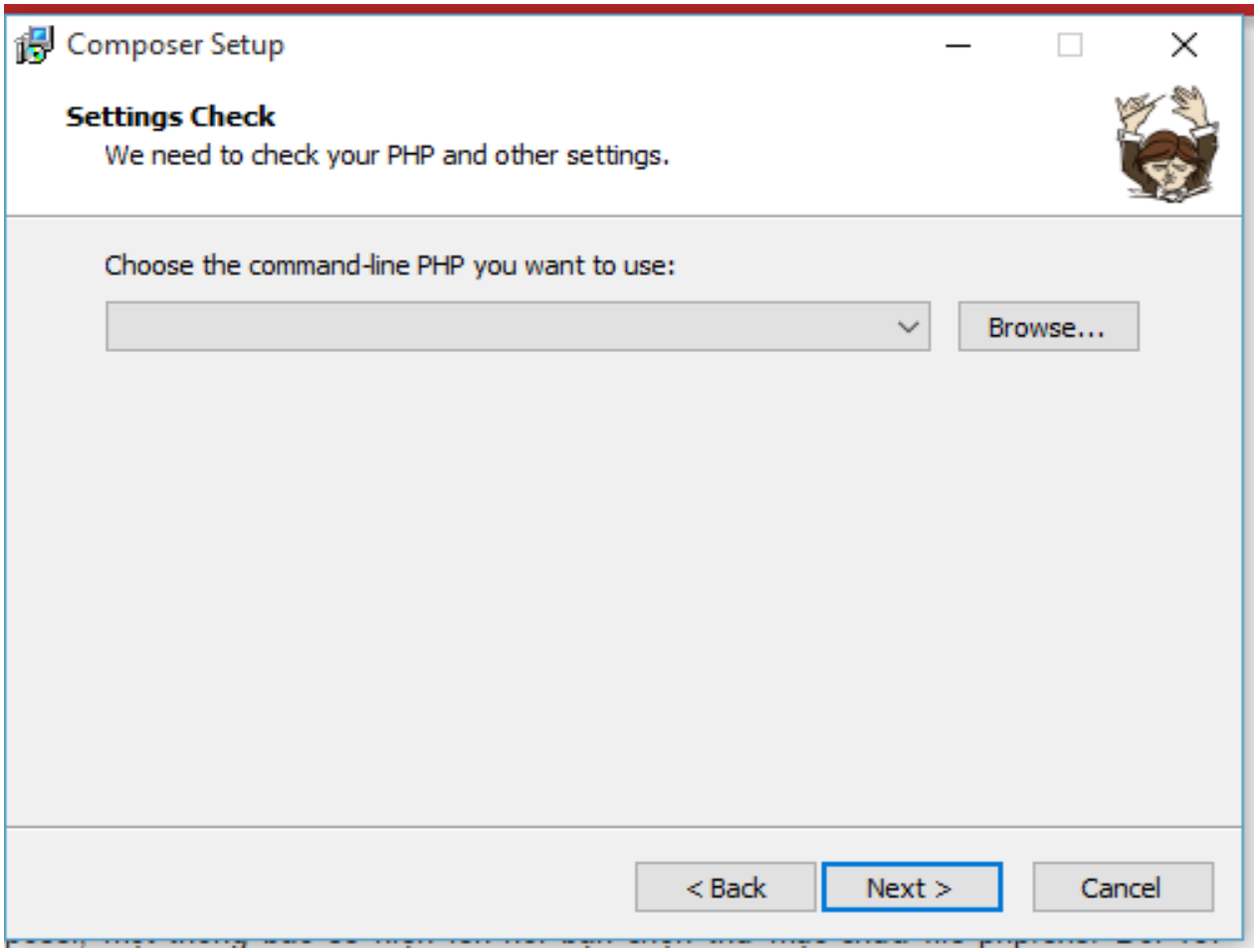


HƯỚNG DẪN CÀI ĐẶT

Laravel sử dụng Composer để quản lý các dependencies. Vì thế, trước khi sử dụng Laravel, hãy cài Composer trên máy

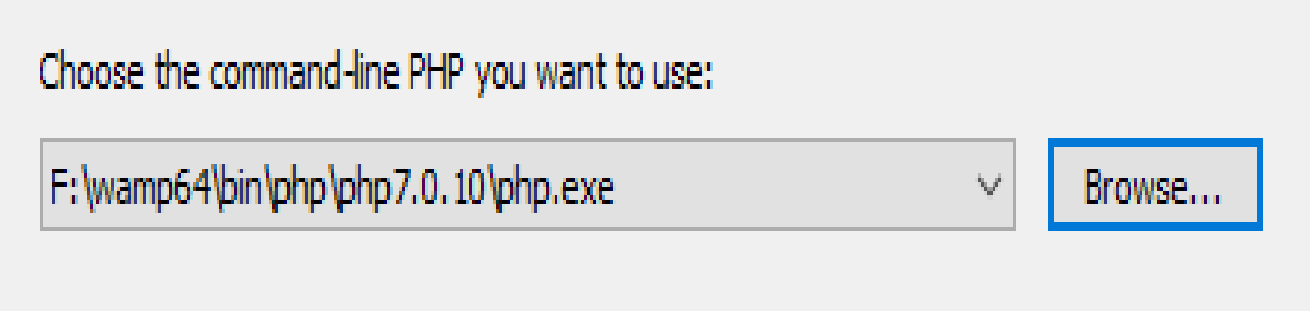
- Bước 1: download và cài đặt composer https://getcomposer.org/doc/00-intro.md
- Trong quá trình cài đặt composer, một thông báo sẽ hỏi chọn thư mục chứa file php.exe

HƯỚNG DẪN CÀI ĐẶT



HƯỚNG DẪN CÀI ĐẶT

- Đối với wamp, nó sẽ nằm ở đường dẫn *C:\wamp\bin\php\phpx.x.x\php.exe* hoặc đối với xampp thì là thế này *c:\xampp\php\php.x.x.x*



HƯỚNG DẪN CÀI ĐẶT

- Bước 2: vào thư mục web server root của Xampp
  - cd C://
  - cd C:\xampp\htdocs

HƯỚNG DẪN CÀI ĐẶT

- Bước 3: chạy Composer create-project trên terminal:
  - composer create-project laravel/laravel quickstart --prefer-dist
  - git clone https://github.com/laravel/quickstart-basic quickstart
  - cd quickstart
  - composer install
  - php artisan migrate
  - composer create-project laravel/laravel sample-project --prefer-dist (trong đó sample-project là tên project)

- Bước 3: chạy Composer create-project trên terminal:

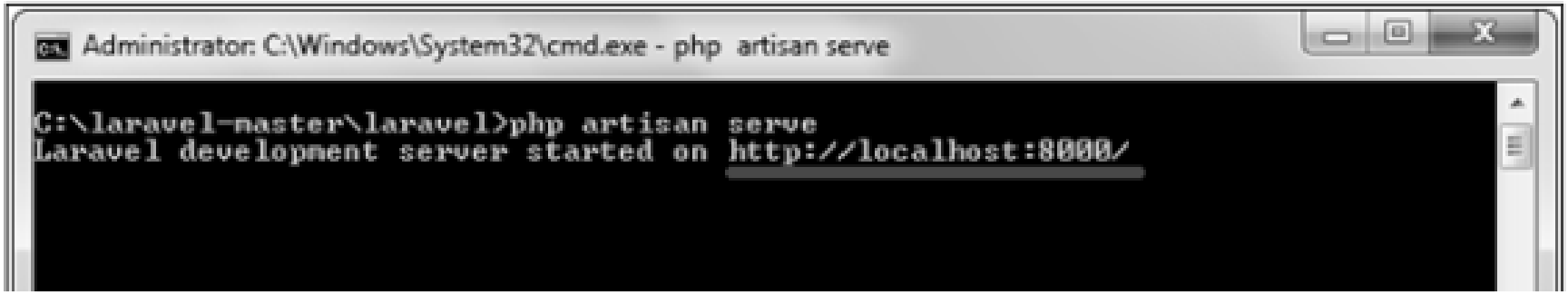
```
Installing laravel/laravel (v5.4.9)
  - Installing laravel/laravel (v5.4.9) Downloading: 100%
Created project in blog
> php -r "file_exists('.env') || copy('.env.example', '.env');"
Loading composer repositories with package information
Updating dependencies (including require-dev)
Package operations: 59 installs, 0 updates, 0 removals
  - Installing symfony/polyfill-mbstring (v1.3.0) Downloading: 100%
  - Installing symfony/var-dumper (v3.2.3) Downloading: 100%
  - Installing jakub-onderka/php-console-color (0.1) Downloading: 100%
  - Installing jakub-onderka/php-console-highlighter (v0.3.2) Downloading: 100%
  - Installing dnoegel/php-xdg-base-dir (0.1) Downloading: 100%
  - Installing nikic/php-parser (v3.0.4) Downloading: 100%
  - Installing psr/log (1.0.2) Downloading: 100%
  - Installing symfony/debug (v3.2.3) Downloading: 100%
  - Installing symfony/console (v3.2.3) Downloading: 100%
  - Installing psy/psysh (v0.8.1) Downloading: 100%
  - Installing vlucas/phpdotenv (v2.4.0) Downloading: 100%
  - Installing symfony/css-selector (v3.2.3) Downloading: 100%
  - Installing tijsverkoyen/css-to-inline-styles (2.2.0) Downloading: 100%
  - Installing symfony/routing (v3.2.3) Downloading: 100%
  - Installing symfony/process (v3.2.3) Downloading: Connecting...
```

HƯỚNG DẪN CÀI ĐẶT

- Bước 4: Sau khi tiến trình cài đặt kết thúc, gõ lệnh sau để di chuyển vào thư mục chứa project

```
cd c:\\xampp\htdocs\ten-project
```

- Gõ lệnh sau để khởi chạy server laravel ở port 8000: php artisan server



HƯỚNG DẪN CÀI ĐẶT

- Bước 5: kiểm tra cài đặt thành công

  localhost:8000(http://localhost/mylaravel/public/)

CẤU TRÚC LARAVEL FRAMEWORK

Laravel root directory

1	/app	This directory contains all of your application's core code
2	/bootstrap	This directory contains all those files required to bootstrap the framework and configure auto-loading
3	/config	This directory contains all the application configuration files
4	/database	This directory contains all the database migrations and seeds. It can also be used to store the SQLite DB
5	/public	This directory contains the front controllers and all the application assets such as images, CSS and JavaScript
6	/resources	This directory contains views , language files and un-compiled assets such as LESS, SASS or JavaScript
7	/routes	This directory contacins all of the route definitions for your application.
8	/storage	This directory contains compiled blade templates, filed based sessions and file cache
9	/tests	This directory contains all your automated unit tests for application
10	/vendor	This directory contains all the composer dependencies

Laravel App directory

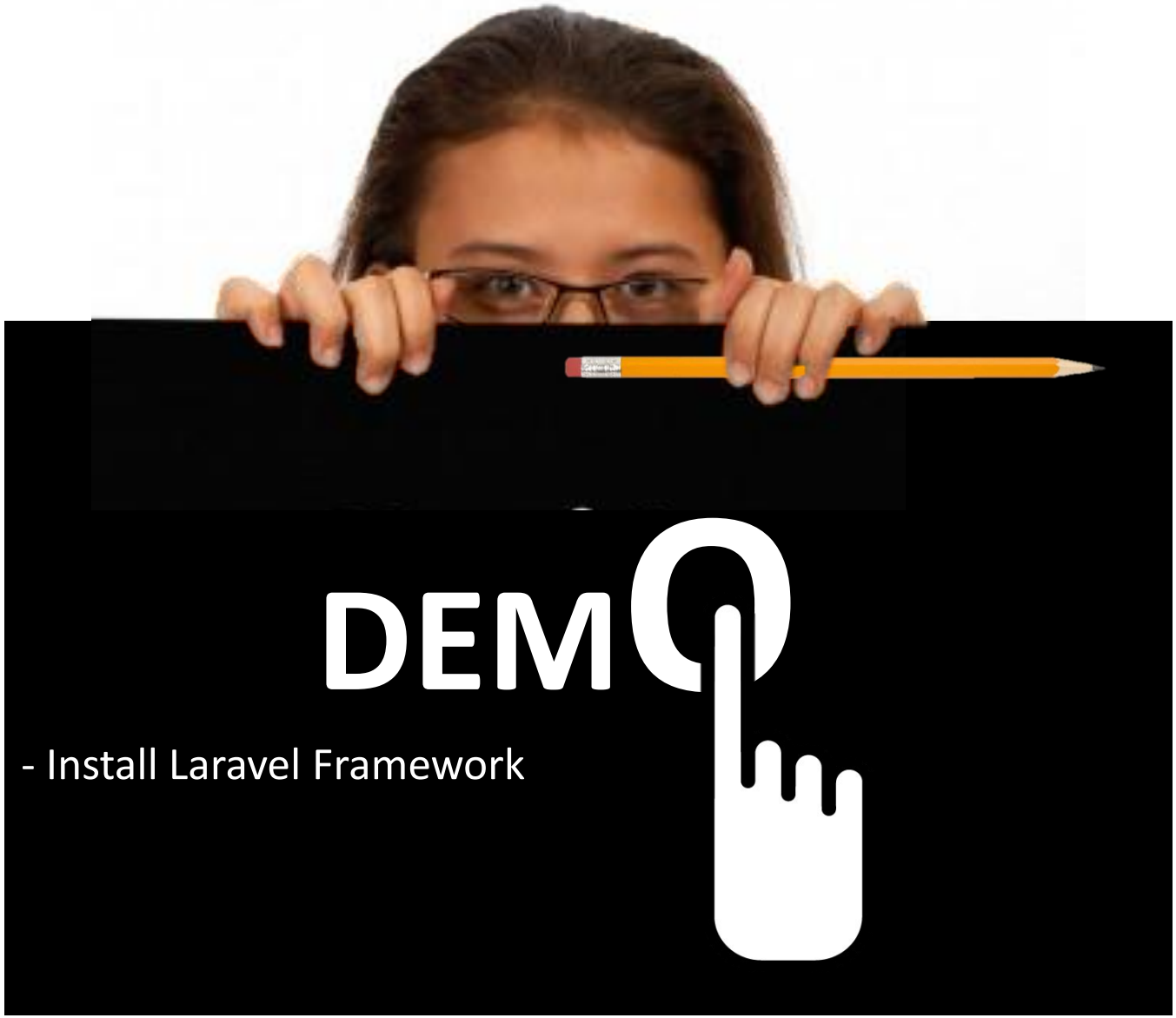
1	/app/Console	This directory contains all of your artisan commands
2	/app/Events	This directory contains all your event classes, though it is not created by default
3	/app/Exceptions	This directory contains all your exception handlers
4	/app/Http	This is directory contains all your controllers, middleware and form requests
5	/app/Jobs	This directory contains all queueable jobs, though it is not created by default
6	/app/Listeners	This directory contains event handler classes, though it is not created by default
7	/app/Mail	This directory contains all your classes required to send emails, though it is not created by default
8	/app/Notifications	This directory contains all the notifications sent by application, though it is not created by default
9	/app/Policies	This directory contains all the authorization policy classes for your application, though it is not created by default
10	/app/Providers	This directory contains all of the service providers for your application.

CẤU TRÚC LARAVEL FRAMEWORK

Laravel framework files

1	.env	It contains environment variables for application
2	.env.example	It contains environment variables for application
3	.gitattributes	It is Git configuration files
4	.gitignore	It is Git configuration files
5	artisan	It allows you to run Artisan commands
6	composer.json	It is configuration file for Composer
7	composer.lock	It is configuration file for Composer
8	gulpfile.js	It is configuration file for Elixir and Gulp
9	package.json	It is like composer.json but for frontend assets
10	phpunit.xml	It is is a configuration file for PHPUnit
11	readme.md	It contains general information about framework
12	server.php	It works as internal web server

MÔI TRƯỜNG PHÁT TRIỂN



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