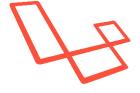
SESSION 02

INTRODUCTION TO LARAVEL



OBJECTIVES

• Explain the details of Laravel framework

• Understand the need of frameworks

• Describe the features of Laravel

• Learn to view the Laravel Directory structure

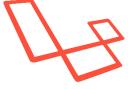
LARAVEL FRAMEWORK

Open source PHP framework

Laravel Framework

Uses the Model-View-Controller (MVC) design pattern

An alternative to CakePHP and Codelgniter



NEED FOR FRAMEWORKS (1-2)

Framework is a basic templating structure that is used to develop, test, and deploy applications rapidly and efficiently.

Provide abstraction

Purpose of Frameworks

Handles repetitive and menial tasks

Arranges things in a logical structure

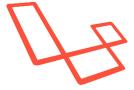


NEED FOR FRAMEWORKS (2-2)

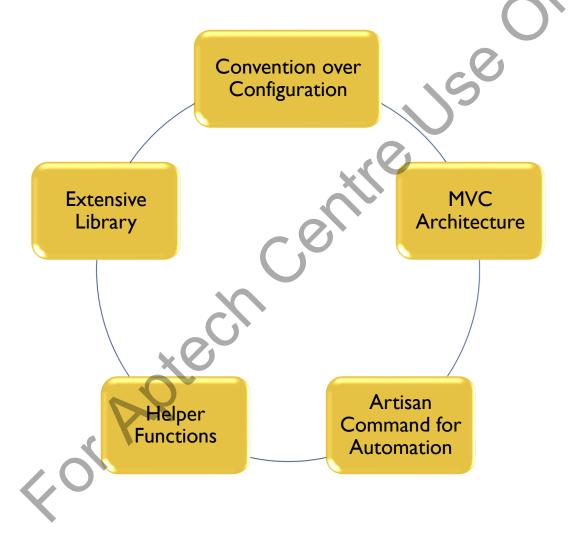
Laravel Framework

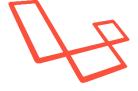
Reuses and assembles existing components, dependencies, and libraries

To build Web applications in a structured manner



FEATURES OF LARAVEL (1-7)

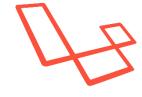




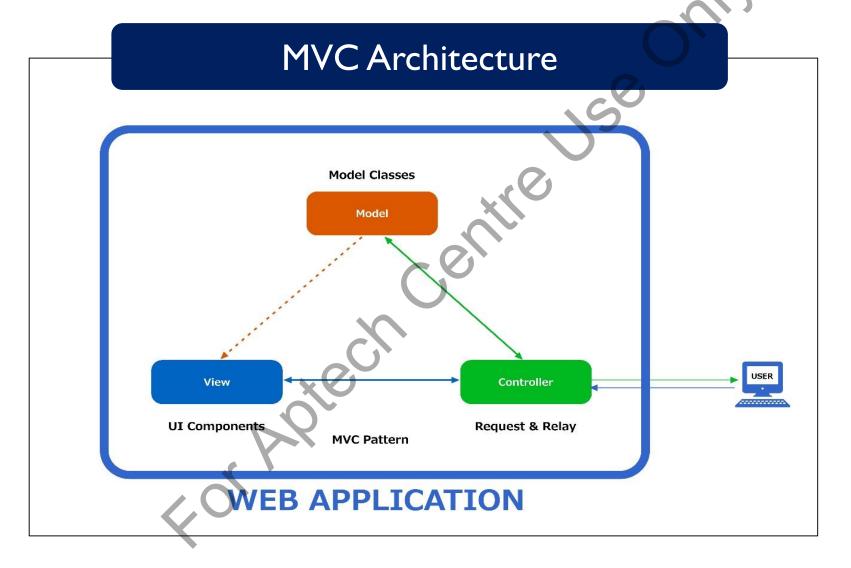
FEATURES OF LARAVEL (2-73)

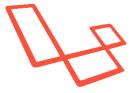
Convention over Configuration

- Can predict the dependencies
- Automate the configuration related tasks
- Reduces the time and effort required to set up and configure services
- Suitable for Rapid Application Development



FEATURES OF LARAVEL (3-7)

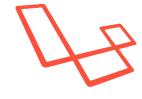




FEATURES OF LARAVEL (4-7)

Artisan Commands

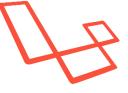
- Automation tool
- Used to create models, views, and controllers
- Used to create dummy server
- Perform database operations



FEATURES OF LARAVEL (5-7)

Code snippet to get a list of commands available for artisan: php artisan list

```
vagrant@homestead: ~/laravelProject
                                                                                                                        aravel Framework 5.8.15
 command [options] [arguments]
                        Display this help message
                        Do not output any message
                         Display this application version
                         Force ANSI output
                        Disable ANSI output
  -n, --no-interaction Do not ask any interactive question
--env[=ENV] The environment the command should run under
   //vv/vvv, --verbose Increase the verbosity of messages: 1 for normal output, 2 for more verbose output and 3 for deb
Available commands:
                       Remove the compiled class file
                       Put the application into maintenance mode
                       Start the dump server to collect dump information.
                       Display the current framework environment
                       Displays help for a command
                       Display an inspiring quote
                       Lists commands
                       Run the database migrations
                       Cache the framework bootstrap files
                        Swap the front-end scaffolding for the application
                        Serve the application on the PHP development server
                       Interact with your application
Bring the application out of maintenance mode
                       Set the application namespace
                       Flush expired password reset tokens
 cache
                       Flush the application cache
                       Remove an item from the cache
                       Create a migration for the cache database table
config
                       Create a cache file for faster configuration loading
                       Remove the configuration cache file
                       Seed the database with records
event
                       Discover and cache the application's events and listeners
                       Clear all cached events and listeners
                       Generate the missing events and listeners based on registration
                        List the application's events and listeners
```



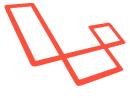
FEATURES OF LARAVEL (6-73)

Helper Function

- Global PHP functions
- Reduces time and effort

Helper functions are classified as follows:

- Arrays and Objects
- Paths
- Strings
- URLs
- Miscellaneous



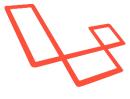
FEATURES OF LARAVEL (7-7)

Extensive Library

- Includes a lot of popular and commonly used libraries
- Reduces time and effort

Code snippet that allows inclusion of external libraries using the composer package manager:

Composer require <library-name>



LARAVEL DIRECTORY STRUCTURE (1-2)

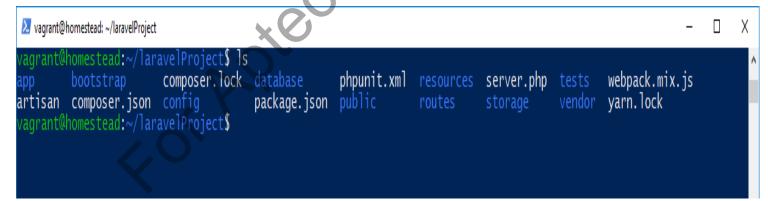
Creating a Laravel application:

laravel new laravelProject

View the directory structure:

cd laravelProject ls

Output of the command:





LARAVEL DIRECTORY STRUCTURE (2-2)





SUMMARY

- Laravel is an open source PHP framework for users working on Web application development.
- A framework is a basic templating structure that is used to develop, test, and deploy applications rapidly and efficiently.
- The Laravel framework reuses and assembles existing components, dependencies, and libraries to automate time-consuming tasks.
- Laravel includes a consistent API.
- Laravel has many conventions, if followed, can predict the dependencies and automate the configuration related tasks.
- ➤ Laravel is based on the Model-View-Controller (MVC) architecture.
- Laravel utilizes helper functions in its classes, functions, and even configurations.

