Laravel is a free and open-source PHP web framework, for the development of web applications following the (MVC) model–view–controller architectural pattern created by <mark>Taylor Otwell</mark>

Initial release-> June 2011

Stable release ->9.38.0 1 November 2022

As of 2022, the current version of Laravel is 9x.

Laravel 8 was released in September 2020 and introduced a number of new features, including Laravel Jetstream, a new application scaffolding tool, improved authorization responses, and a new migration snapshot feature.

Version	PHP (*)	Release	Bug Fixes Until	Security Fixes Until
6 (LTS)	7.2 - 8.0	September 3rd, 2019	January 25th, 2022	September 6th, 2022
7	7.2 - 8.0	March 3rd, 2020	October 6th, 2020	March 3rd, 2021
8	7.3 - 8.1	September 8th, 2020	July 26th, 2022	January 24th, 2023
9	8.0 - 8.2	February 8th, 2022	August 8th, 2023	February 6th, 2024
10	8.1 - 8.2	Q1 2023	August 6th, 2024	February 4th, 2025

Required Knowledge

- PHP:
- HTML and CSS
- SQL:
- MVC architecture:
- Composer:
- Git:
- Basic Linux commands:

Composer

installing Node and NPM.

```
composer global require "laravel/installer"
laravel new nirectory_name
```

```
php artisan -v
```

```
php artisan serve
```

http://127.0.0.1:8000

composer create-project laravel/laravel AppName	
php artisan -v	To check version
composer create-project laravel/laravel="5.1.*" appName	

Laravel Extension Pack

VsCode extensions	Laravel artisan Laravel blade snippets Laravel blade spacer Laravel blade goto view Laravel snippets Laravel extra intellisense Live sass compiler Beautify css Php intellisense	Getter and Setter Generator Bracket Pair Colorizer Emmet Live GitHub KnisterPeter JavaScript (ES6) code snippets VSCode Great Icons Sql tools SQLTools MySQL/MariaDB

Facades	routes	routes->web.php
Eloquent tinker		

Composer.json

resources->views->welcome.blade.php
routes->web.php
public->assets
resources->views->BasePage.blade.php

.env environment db,username,password,server.

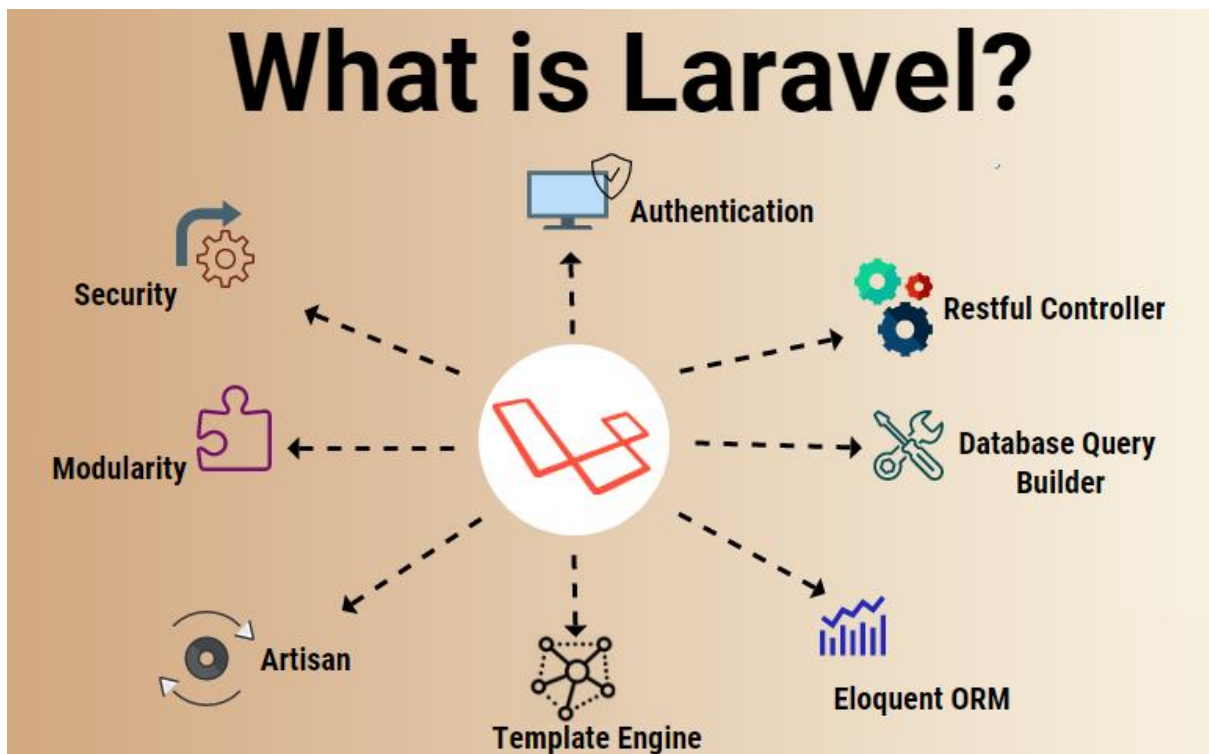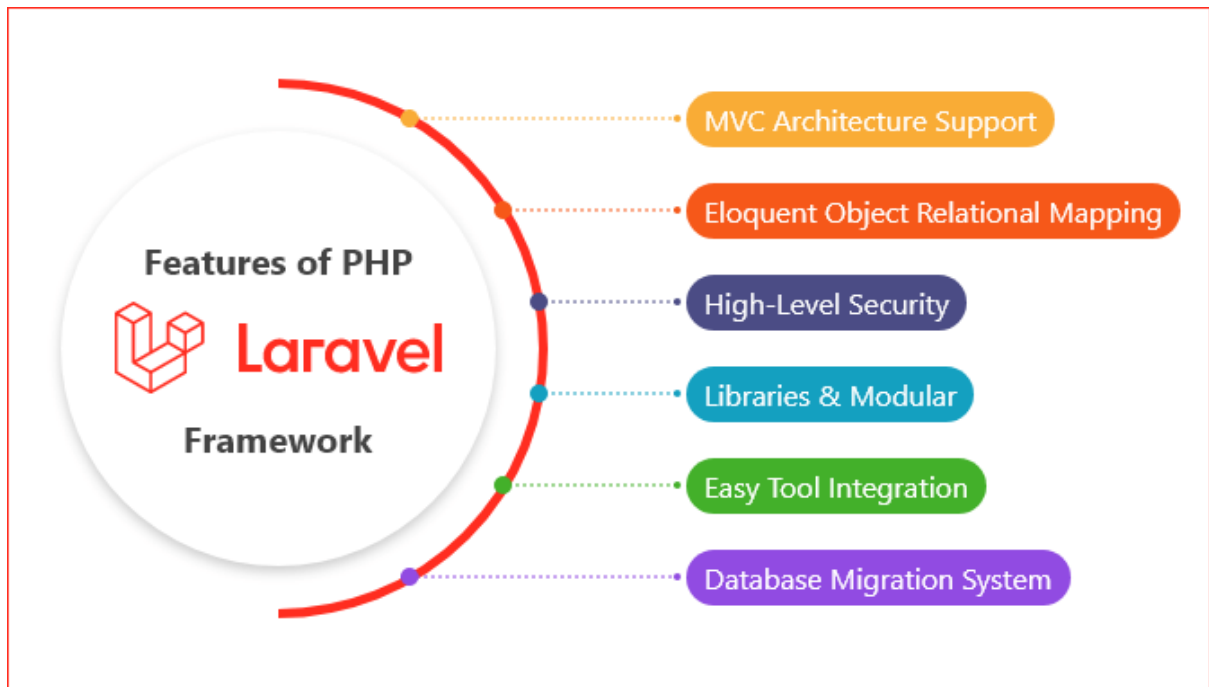|	php artisan serve
app->Http->Controller	php artisan make:controller controllerName
app->models	php artisan make:model modelName

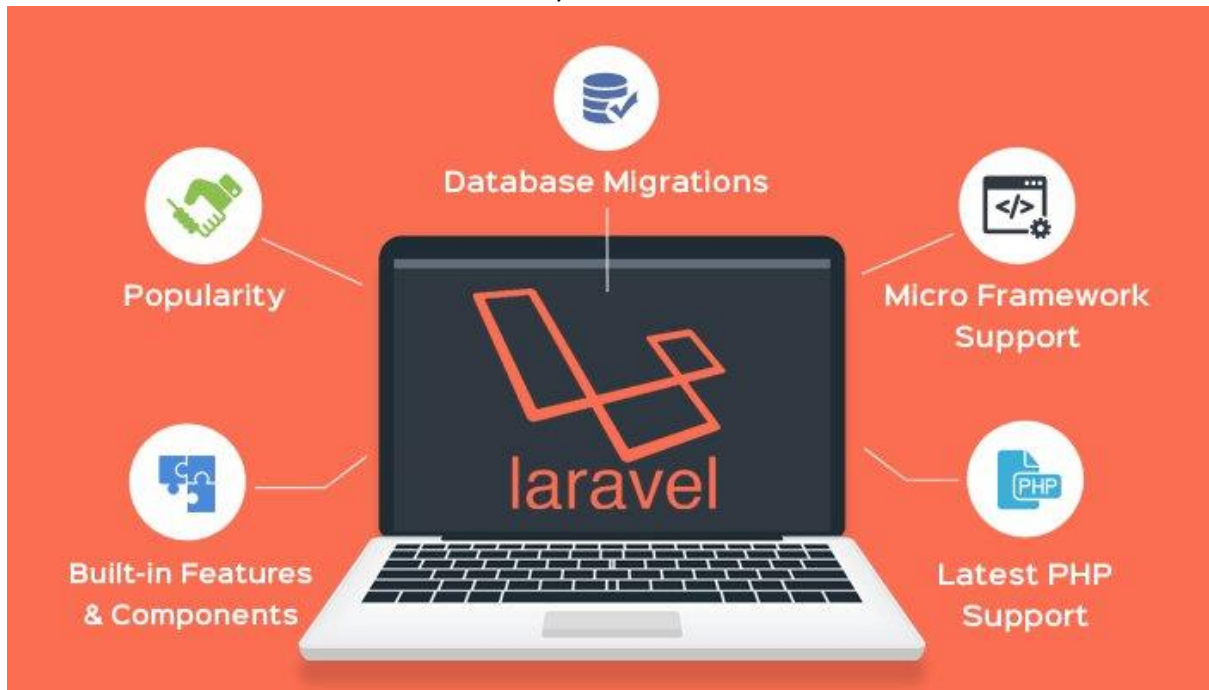| database-> migrations	php artisan make:migration create_TableName_table

features

- Routing controllers.
- Configuration management.
- Testability.
- Authentication and authorization of users.
- Modularity.
- ORM (Object Relational Mapper) features.
- Provides a template engine.
- Building schemas.
- E-mailing facilities.

Laravel Framework

Features of PHP Laravel Framework

- MVC Architecture Support
- Eloquent Object Relational Mapping
- High-Level Security
- Libraries & Modular
- Easy Tool Integration
- Database Migration System

What is Laravel?

- Security
- Authentication
- Restful Controller
- Modularity
- Database Query Builder
- Artisan
- Template Engine
- Eloquent ORM

Understanding Laravel ERP Meaning

The Laravel ERP system gives an integrated and constantly updated picture of basic business processes by using standard databases stored by a database management system.Orders, purchase orders, payroll and much more [modules](#) are all tracked by ERP System, which keep track of business resources such as cash, raw materials, and production capacity. The data is shared across various departments within the applications that make up the system.

Features of Laravel ERP

The Laravel ERP platform has a wide range of functionalities thanks to its vast ecosystem. The most significant ones are listed below.

1. **Dependency management:** This element explains the service container's fundamental capabilities. The inverted service container, which controls class dependencies, is its most dependable tool.

2. **Routing:** Routing is taking a URI endpoint (URL) and matching it to the proper controller and method, thus allowing the user to see the requested content.
3. **Authentication:** Since it is a time-consuming activity, writing authentication in other PHP frameworks might be difficult. Your expert Laravel developer may provide out-of-the-box authentication with Laravel ERP by executing a single command, resulting in a comprehensive authentication system.
4. **Modularity:** You may readily divide your business logic into different modules that work together to ensure that the online app runs properly. Laravel is a modular component generator that groups together components.
5. **Caching:** Processing time will be decreased significantly with Laravel caching, resulting in improved performance.
6. **Debugging:** Laravel included a testing framework specific for application testing when it was created. Testing and debugging are laughably simple with the help of the PHP unit out of the box!
7. **Object-relational mapping:** Laravel framework uses object relational mapping (ORM) to enable PHP developers to store data
8. **Secure Migration System:** Laravel ERP is a database framework that allows developers to make changes with minimal effort and has a migration process that is highly secure and complete. Instead of SQL code, PHP code is utilized throughout the process.
9. **Unique Unit-testing:** Unit testing is available in Laravel ERP. To determine whether the modifications harm the website, Laravel ERP may run numerous test cases. Developers may also write test cases in their code in Laravel.
10. **Artisan**: The Laravel ERP framework includes an Artisan command-line application that does the drudgery programming work that PHP developers cannot do manually. Because it makes it simpler to manage the system's database, these artisans can also be used to build the skeleton code, database structure, and migration. Using the command line, it can also produce MVC files. Developers may also build their commands using Artisan.
11. **Intact Security:** One of the essential aspects of ERP design is application security. A programmer must employ effective ways to protect an application while creating it. Laravel ERP covers an application's security by default, like other inbuilt applications. The salted password is produced as an encrypted password in a database, not in the form of plain text, using the "Bcrypt Hashing Algorithm."

Why does the Company prefer Laravel for ERP Development

Laravel ERP offers the best benefits for businesses. Here are some of them:

- **Ease of Use:** One of the main reasons why Laravel is so popular is because it is very user-friendly and easy to learn.
- **Open source:** Nevertheless, the open-source characteristic of Laravel is the crucial reason to utilize it compared with other ERP frameworks. It makes it easy to change the framework because it is open source. It has a lot of options. You can adapt how you develop enterprise software to match your business needs.
- **Less Time Requires to Develop:** Laravel's built-in functional capabilities make it easier for developers to code since ERP Laravel offers several of them. As a result, as compared to other frameworks, it develops more quickly.
- **In-built libraries:** Laravel ERP's libraries are divided into individual modules and provide a wide range of functionality. With modular, responsive, and flexible form, it gives developers the ability to build a user-friendly application.
- **Database Migration Systems:** In the case of creating a big-scale business application, data migration is a must. Developers require moving the database. A data migration tool allows developers to collaborate on and access a shared database, allowing them to work more efficiently and quickly. It's simpler to reverse and update changes made to one DB due to this.
- ObietestengoledalpewriisomestoescoteethDeslhollieatichisfoiehte
- **Community Support**: You may feel comfortable with community help if you are going with Laravel ERP development. Laravel has a large developer community that is experienced and committed. You may ask questions to address any challenges you had throughout the development process. As a result, Laravel development may be described as "simple" when gaining expert help. As a programmer, you may now create a solid and scalable internet application that meets your client's demands. You may get updates on new modules and plug-ins now and then with the support of a big community. If you need outside assistance for your endeavor, then put all your questions to the public.
- **Reduced Time to market:** Laravel ERP now allows developers to reduce the Time spent developing a project and to market it in less time than other traditional frameworks, thanks to its numerous built-in functional capabilities.

As a consequence, it is now one of enterprise software development's most popular frameworks.

Some Facts About Laravel

- Taylor Otwell developed Laravel in July 2011, and it was released more than five years after the release of the Codeigniter framework.
- Laravel is a PHP-based web framework like Codeigniter.

- Laravel is one of the open-source PHP frameworks.
- Laravel follows the model-view-controller (MVC) architectural pattern.
- Laravel is one of the most popular PHP frameworks after Codeigniter.

Features of Laravel

Some essential features provided by Laravel are:

- Routing controllers.
- Configuration management.
- Testability.
- Authentication and authorization of users.
- Modularity.
- ORM (Object Relational Mapper) features.
- Provides a template engine.
- Building schemas.
- E-mailing facilities.

We will learn more features of Laravel in further chapters.