A Review of Laravel: Framework for Building PHP Apps

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ABSTRACT- The purpose of this paper is to use the Laravel framework to create PHP applications. HTML, a server-side scripting language, contains PHP. Laravel helps programmers to bulid applications. Using a third-party integrator, this kind of node program can be used by an individual. After using a framework like Laravel, developers may occasionally find it difficult to switch to another framework. Reverse routing, the integration of email, and security management are just a few of the features that LARAVEL offers. In PHP programming, an articulate user model is utilized for integration. This study demonstrates that Laravel is a robust website development framework. It works mostly with PHP. A framework contains all necessary applications and tools for a developer to develop a website.

KEYWORDS- Laravel, Eloquent, Ram, Asp.Net, Mvc, Npm, Api, Sms, Url, Php Unit, Html, Cms, Sql Injection

I. INTRODUCTION

It is primarily a web program framework. It provides a variety of programming development tools. The application is the primary focus of this topic. This topic also provides a summary of the challenges encountered when implementing a Laravel thesis. An overview solution to problems is also provided in a later section of this topic. LARAVEL is a web application and website development framework. A framework is similar to a cage or a net in that it processes integrated packages or resources and provides a glue-like feature. All packages are held together by this glue-like feature [1]. The PHP programming language is used to create the LARAVEL framework. PHP, the hypertext preprocessor, is known for embedding frameworks like the ones mentioned earlier. PHP, is a scripted language that can be found on the market and has been used to embed HTML servers. A collection of drivers and a pile system powers LARAVEL.

In LARAVEL packaged are built to write the program as a pile within a framework, which includes everything from libraries to web applications. Repeated tasks can be automated with LARAVEL.A programmer is responsible for creating the start button, which initiates the operation. LARAVEL is then utilized to execute the preceding command, which initiates the program and converts it into the PHP programming language [2]. The programmer uses a command to end the above program, and the server displays the final data or result.

II. COMPOSITIONS REVIEW

Laravel is a framework of PHP which consist of different operational tools. It provides simple task to the developer that are utilized in the majority of web projects. The main functions of Laravel is creating authentic following programs, routing, calculating times, and buffering. This framework was created by the larval developer to provide ideal programming environment without sacrificing product features. Programmers can properly create code step by step thanks to logic. Programmers can easily code with Laravel's proper logic approach, which primarily assists them. Laravel is a robust framework which gives powerful developers tools. To build codes must meet certain requirements. Each useful framework, like Laravel, comes equipped with specialized tools to meet those requirements. primary controllers, implicit controllers, resource controllers, dependency controllers, and route services are the main features. A developer can build a website quickly and easily with these controllers. Laravel faces competition from Ruby on Rails, ASP.NET MVC (Model View Controller), and Sinatra, among other frameworks. In a framework, NPM (Node Package Manager) plays an important role. In order to code, every framework needs to run JavaScript. NPM is primarily a package head of JavaScript. It is chiefly a hub for JavaScript programming. NPM plots various modules in various locations where nodes can locate them A framework requires to meet certain conditions for developing codes. Laravel has specific tools to meet those requirements. In Laravel there is various controllers such as primary, implicit, resource, dependency and route services. These plugins help the developer to build a website.

Laravel framework has it own contender for e.g.: ***Ruby on*** Rails, ASP.NET MVC and Sinatra. NPM plays an important role in a framework. Every framework has to run JavaScript in order to execute the code. NPM is basically a JavaScript package head. NPM is a node for JavaScript programming. NPM disperse modules in different places where nodes can find those modules. It is an intelligent way to manage dependency. The main feature of NPM is that developers can built a program in different of languages. NPM is a composer, and Laravel needs a powerful composer. Its main contender Ruby has NPM.

Frameworks is built for developing code efficiently. In framework like Laravel coding becomes very efficient. Laravel have enchanting of its own. Main difference

between Laravel and core PHP is Laravel requires skills for coding which differ it for core PHP.
Role of Laravel in creating PHP Apps
Laravel gives a developer a massive advantage over other frameworks. Advantages mentioned below [6].

A. Configuration of Authentication

Laravel enables developers to use its authentication application very easily. Almost every authentication code has been implemented in Laravel. It effectively manages resources and logic.

B. Support of mail system

The mail service is useful to developers. It's hard to imagine a web application without an email service. For mail systems, Laravel provides straightforward API support. Additionally, Laravel provides support for SMS services, facilitating user communication.

C. Integrated tools

Laravel includes a number of integrated tools for creating webpages. It helps speed up the development of an application without sacrificing its functionality. Larval mostly makes use of tools like file-cached drivers, which can find information that has been cached in a file system. Additionally, Laravel supports multiple caches

D. Securing common technical issues no

Securing common technical flaws, such as SQL injection, cross-site request, and cross-site manipulating, It helps developers safeguard their applications.

E. Flaws and exception management

The feature safeError handle is one of the most important aspects of the Larval framework. Laravel comes equipped with error management. The Monolog library system in Laravel use to handle program flaws

F. Mechanism of work testing

Laravel has an inherent computer-based intelligence for testing codes. Additionally, Laravel comes with a built-in phpunint.xml file for running the test and supports testing PHP Unit.

G. Web address rerouting technique

Laravel has an inherent computer-based intelligence for testing codes. Additionally, Laravel comes with a built-in phpunint.xml file for running the test and supports testing PHP Unit. The "http://routes.php" file that loads by default on the framework

H. Types of code

Various types of code Laravel gives developers the ability to create websites with a variety of coding styles. Programmers can easily create code for a variety of projects with a framework like Laravel. Most of the time, Laravel is a MVC framework. Different codes can be separated by an MVC-type framework.

I. SMS queue system

SMS queue must be an option for the Mail service. A clogged network system may not always be able to send the right mails . However, the queue enables an application to receive a user's delayed SMS. The API systems that Laravel uses to retrieve delayed messages are one of a kind.

J. Task scheduler

To develop a new application, a developer must create a task. This technique is disturbing for an engineer.
However, Laravel's task scheduler can automatically assist developers. One of the most efficient and intelligent frameworks for developers is Laravel. Larval enable a developer to code efficiently a website, which must act quickly in order to meet the needs of user. These are the primary reasons why upgrading from Laravel can sometimes be challenging for developers
Features of Laravel
Applications of LARAVEL include

- It is a powerful tool for handling hence in Laravel almost every internet-based database can easy be handled.
- In LARAVEL "ELOQUENT", in Laravel, can retrieve, update, create and delete records form the database.
- Command-line interface tool ARTISAN is used in Laravel , Developers uses ARITISAN to perform some operations like migrating tasks and operating scheduled tasks.
- It sets up differences between different database types with thew help of frequent query builder.
- Developers use Laravel to create various web applications [10].

Problems faced by the program
It is clear that even an MVC- Web development framework like LARAVEL, is not perfect. Even though LARAVEL is developed to help web developers for writing code with ease , it faces various problems:

- It doesn't support Payment feature of specific applications.
- Smooth upgrades doesn't occurs in this framework.
- Since LARAVEL language is complicated for no reasons, and amateur web developers faces problems while developing web applications because it is based on a PHP command line [11].
- Page reloads longer than websites In case of Mobile Applications.

Developers use LARAVEL to writing a web applications in which complexity of this Laravel is not very complex. Laravel enables small applications that run on small platforms. Laravel works in PHP programming Enterprise-level software is not built through LARAVEL; instead, with LARAVEL we can built mobile applications and small websites. Large Enterprise-level software built on PHP command line takes a large number of resources to load, takes multiple servers, caches and packages. LARAVEL is used mainly for developing small websites, and web applications, and this Program will crash down if LARAVEL is used to program extensive software, [3].
Since LARAVEL is based on MVC architecture of it is quite complicated. Developers o use this MVC for developing software based on PHP, Since using a complex language like PHP can crash this entire application hence small size applications cannot be programmed by using this model. LARAVEL uses MVC, hence upgrading time increases, as well as the cost of updates [12].
Laravel framework does not have technical experts, technical support is very low because. In this framework is based on relatively new programing language and hence, technical support is very low Still, developers working on the remove of errors from this framework, which is

completely understandable. Version 5 of LARAVEL is relatively better than its past versions are. In addition, In PHP based platforms reload time is a big issue which leads to the problem in Mobile applications which take more time to load.

LARAVEL user installation requires a high technical expertise and large documentation. To avoid unnecessary problems it requires customer support helpline. LARAVEL runs on some specific system requirement. As software ecosystem of LARAVEL is large. This can create more complexity among the platform for a first time user.

Cache management in LARAVEL is excellent, overloading of Cache memory can occur form usage of this PHP based language, on a less than average specification platform. Situations like this Mobile phones with RAM management problems, can often succumb and may not be able to execute the application. Hanging problem occurs quite often in Mobile applications using this framework. [13].

This framework is based on internet, and as it requires a huge internet connection to host to multiple other platforms can. Therefore, a high internet speed is required.

III. CONCLUSION

This report is the final word on Laravel. Also discussed in this section is whether or not Laravel is an excellent framework. The best advantage of Laravel over any framework is demonstrated in this study. Larval also has some significant flaws, like not having an NPM composer. However, developing code with Laravel is simple for developers. A programmer can also benefit from Laravel's AI engine. PHP programming uses a variety of frameworks; Laravel, on the other hand, is one of them, and it keeps supporting developers.

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