Using Laravel Framework To Build A Promotion Website For Mie Rampok Bandung

Verisky Mega Jaya - 13514018

Program Studi Informatika
Sekolah Teknik Elektro dan Informatika
Institut Teknologi Bandung, Jl. Ganesha 10 Bandung 40132, Indonesia
13514018@std.stei.itb.ac.id

Abstract—**as a new restaurant opened since 2016, Mie Rampok Bandung had to deal with low number of daily customers. Even though it is located at strategic and crowd area, not so many people know the existence of it. To help them solving this problem, we decided to build a website to promote and gather feedbacks from their customer. This is a big challenge because we used a web framework, Laravel, which none of us are familiar with it. We explore and learn Laravel while we gather our user requirements. Gratefully we can finish our project in time with all the requirements fulfilled.**

Keywords—framework, Laravel, PHP.

I. BACKGROUND

As students who took Information System course, we were looking for a small (but not too small) company to help them solving their problems with applied Information System. We would build a system, which can be a website, mobile app, or desktop app, depend of which of this that is suitable to help the company.

Mie Rampok Bandung is a restaurant opened since May 2016 at Dago, Bandung. We decided to choose Mie Rampok Bandung as our partner company in this project as we talked to Mr. Hendro, the owner of the restaurant. He said he had problems with low number customers. Their employee also dealing with very low workload as there are only few customers at certain times. Mr. Hendro also want to understand more about their customers, to fullfil what they want or need. But with the current system, not all customer's feedbacks can be logged.

We decide to build a website to promote the restaurant more efficiently and to collect customer's feedbacks and save them in the system. Even though none of us are fluent with Laravel framework, we choose it in this project, so we could also learn new things as we working on website.

II. INTRODUCTION

Like the wise said, "Do not reinvent the wheel", that is the basic principle of frameworks. We should focus working on the most important works like system design, instead of dealing with small and repetitive works like building a login form or building database table from scratch.

We can save a lot of time by using framework which abstract some of detailed components into a simple module that is more easy and fast to use. We had choose Laravel as base of our project.

III. THEORY

Laravel is a free, open-source PHP web framework based on Model-View-Controller (MVC) design pattern.

A. Eloquent (Database Model)

Each Eloquent model represent a database table. Unlike manual query (with SQL syntax), Eloquent model wrap it to make it easier to do queries to database tables.

B. View

Views are visual representation of models. The view layer is responsible for generating a user interface, normally based on data in the model. For example, an online store will have a list of products to be displayed on a catalog screen. This list will be accessible via the model, but it will be a view that accesses the list from the model and formats it for the end user.

C. Controller

Controller provides the link between model (Eloquent) and view. Controller responsible to process input, doing action to models (add, update, or delete), and deciding what views to be rendered.

D. Authentication and Verification

Authentication is a functionality provided by Laravel. Authentication wrap session management in PHP and make it to be more easy to use. We can declare which method in controller than must use user authentication and which doesn't (using decorative design pattern). By using authentication provided by framework, we will save much time and have

guaranteed security. Verification allow us to make sure user filled the obligatory attribute of a form input.

IV. BUILDING A WEBSITE (MIE RAMPOK BANDUNG)

We built a website which publicity many informations about Mie Rampok Bandung. Just like a common restaurant website, we include list of avaible menu (food and beverage), ongoing promotion, and restaurant gallery.

A. Model

There are 4 database tables that need to be implemented as Eloquent model in Laravel.
- Menu, which contains the following attributes : name, price, type (food, desert, or beverage), description, and picture.
- Gallery, which contains the following attributes : name, description, and picture.
- Promotion which contains the following attributes : name, description, and picture.
- Feedback which contains the following attributes : name, email, feedback text, and picture.

B. View

View are provided by pages in a form of Laravel blade. Followings are the pages included in the projects
- Index (main page), showing the summary of the website. It shows popular menu and popular ongoing promotion.
- Menu page, showing list of foods and beverages available at the restaurant including its price, picture, and description.
- Promotion page, showing list of ongoing promotions including discount and bonus.
- Gallery page, showing list of pictures related to restaurant (food, interior, ornament).
- Feeback page, provide a feedback form that can be filled by anyone who wants to give feedback for the restaurant.
- About, showing basic information about Mie Rampok Bandung (location, work hours, contact)

C. Controller

To make it more simple we made a controller for each view (page).
- Menu controller is responsible to select available foods and beverages and pass it to view. This controller also handle change like add, update, or delete menu which is can only be done by an administrator.
- Promotion controller is responsible to select ongoing promotions. This controller also handle change like add, update, or delete promotion which is can only be done by an administrator.
- Gallery controller is responsible to select available pictures and pass it to view. This controller also handle change like add, update, or delete pictures which is can only be done by an administrator.

- Feedback controller is responsible to accept a new feedback input by user and save it into database. This controller also select available feedbacks and pass it to view. Only administrator can see this list of feedbacks.

V. OVERVIEW

Our website is almost done and is already deployed. Mr. Hendro wanted to test it on a free hosting site, not yet on paid domain and hosting. Full website overview can be seen in this link http://mierampok-bandung.herokuapp.com/public/menu.

VI. CONCLUSION

Laravel is a complex but not too hard to understand, and is one of the most popular web frameworks. It is mainly based on MVC design pattern, so it is not hard to understood by someone who already knew design pattern. Laravel provides many functionality like Eloquent model, view (blade), controller, and etc.

VII. ACKNOWLEDGEMENT

Praise the Lord, God has allow me to finish this paper without any big problem. Thanks to my lecturers Dr. Eng. Ayu Purwarianti, ST.,MT., Dessi Puji Lestari ST,M.Eng.,Ph.D. dan Dr.Ir. Rinaldi Munir, M.T. for teaching us Socio Informatics so I can finish this short paper in the right time.

REFERENCES

[1] http://laravelbook.com/laravel-architecture/, accessed on 3 May 2017
[2] https://laravel.com/, accessed on 3 May 2017

STATEMENT

By signing this paper, I declare that this paper is written by me, and not a plagiarism.

Bandung, 5 Mei 2017

Verisky Mega Jaya -13514018