

Approval Sheet

I certify that this industrial training final report has been reviewed by NIK MUHAMMAD FIRDAUS WAHAB on 15/01/2024 as part of the industrial training completion.



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Date: 15/01/2024



FACULTY OF COMPUTER SCIENCE AND INFORMATION TECHNOLOGY
DEPARTMENT OF SOFTWARE ENGINEERING
UNIVERSITY PUTRA MALAYSIA

Industrial Training and Career Management System

(SSE4901)

Final Report

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Abstract

The report includes the software engineering experiences, professional best practices and both technical and non technical knowledge and skill development gained by me during the industrial training internship program 1st semester(2023/2024) in company Mesinkira Sdn. Bhd.

This report contains three main sections. First chapter contains a summary about the general information, organizational structure, organizational background, objectives, task summary, mission and vision of the company. In the second chapter it consists of details about the internship technology experiences at the training period.Third chapter consists full description of my tasks which I performed in the company. In this section it describes details about projects I have been involved in, difficulties and problems I faced, management and office practices that I have exposed etc. The Fourth chapter consists of the conclusion of the report. This is a self measurement about the training experience and about industrial training program, references are in this section.

Acknowledgments

I would like to express my sincere gratitude to all the parties who contributed me to success in the industrial training program who helped me in various ways in technical, management and all sort of guidance given me to improve my professional and technical knowledge.

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internship experience throughout the training period in order to ensure that I gain the maximum out of it.

I would like to extend my thanks especially to Mr. Nik and Mr. Amirul, Senior Software Engineer at Mesinkira Sdn. Bhd., for instructing and guiding my Internship Program throughout the training period without any issue.

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Chapter 1: Introduction to the Training Organization

1.1 Introduction

I was excited to have this opportunity to intern at Mesinkira Sdn. Bhd, as a teammate in the field of Software Engineering. My primary responsibilities were to assist the technical team with various projects and learn as much as I could about the industry. The internship program at Mesinkira Sdn. Bhd is designed to provide aspiring software engineers with a comprehensive learning experience. Interns, like myself, are exposed to real-world projects, mentored by professionals, and encouraged to actively contribute to the company's success.

In the following chapters, I will share my experiences, challenges, and achievements during my time at this esteemed organization.

1.2 Objectives

The objectives of this internship program can vary depending on the organization and its specific goals. However, here are some common objectives that my internship program aim to achieve:

- Skill Development: Provide interns with opportunities to develop and enhance my practical skills related to Software Engineering or career aspirations.
- Real-world Experience: Offer hands-on, real-world experience to bridge the gap between academic knowledge and practical application in a professional setting.
- Professional Exposure: Expose me to the professional work environment, allowing me to understand workplace dynamics, etiquette, and expectations.
- Networking: Facilitate networking opportunities for me to connect with professionals, mentors, and colleagues in the industry, helping me build valuable contacts for future career growth.
- Career Exploration: It is helping me clarify my career goals and make informed decisions about my professional future.
- Resume Building: Assist me in building a strong and relevant resume by providing tangible work experiences, achievements, and skills gained during the internship.

- Feedback and Evaluation: Provide regular feedback and evaluations to help me understand my strengths and areas for improvement, fostering personal and professional development.
- Project Involvement: Involving me in meaningful projects and tasks that contribute to the organization's objectives, giving me a sense of responsibility and accomplishment.
- Cultural Integration: Help me integrate into the organizational culture, aligning them with the company's values, mission, and work ethic.
- Learning Opportunities: Expose to continuous learning opportunities, including exposure to new technologies, industry trends, and best practices.
- Employability Enhancement: Equip me with the skills and experiences that enhance my employability and make me valuable assets in the job market.
- Time Management and Accountability: Develop my time management skills and a sense of accountability by assigning responsibilities and deadlines for tasks and projects.
- Team Collaboration: Provide opportunities to collaborate with team members, fostering teamwork and communication skills.

This Internship program aims to create a positive and enriching experience for me while meeting the organizational needs for talent development and potential future recruitment. After getting the opportunity to work in Mesinkira Sdn. Bhd. I get to fulfill all of these objectives. By making the application for mesinkira internal staff during my internship period I got all of these potential skills and enhanced my knowledge as well.

1.3 Task Summary

After joining in Mesinkira Sdn. Bhd. I got some tasks to show my ability to work with all of my teammates. Then I get task to implements mesinkira apps documentations. When I started this task I almost finished making a layout on it. Then suddenly I got another task which is more important than that. This task is about making retrofit of mesinkira merchant list from the v1 database.

1.4 Organization Background

MESINKIRA is a technical team which is created by ModulEight Technologies Sdn. Bhd. It is a retail support operating system that focuses on cultural financial literacy among micro, small, and medium-sized enterprises (MSME). They were aware of their difficulties being bankable or getting financial help due to their lack of a track record in

their business. They provide end-to-end solutions from online to offline. They turn near-field communication (NFC) into one element that enables devices to accept card payments (Visa/Master) with integrated e-wallet payments. In fact, in running a business, there are many financial problems, such as the incompatibility of employee salaries with their contributions to the business, damaged inventories, uncollectible accounts receivable, and many other problems. The role of accounting is needed to be able to overcome these problems.

The impact of Mesinkira on the ecosystem can help MSME not only digitalize but also increase their credit worthiness. In addition, Mesinkira also solves various problems that face when financing small businesses or rolling out more dynamic product offerings.

1.4 Organization Mission and Vision

Mesinkira is an innovative mobile business management solution created by ModulEight Technologies Sdn Bhd to digitalise micro businesses. Mesinkira application is a simple, complete and effective retailing platform, made for SME and micro-businesses. It is a retail support operation system that focuses on cultural financial literacy among micro, small, and medium-sized enterprises (MSME). This single app has all the components that a retailer ever need such as:

- Stock Management
- Point-of-Sales functionalities
- Secure and modern multi mode payment which accepts cash, credit/debit cards, e-Money and online banking
- Simplified bookkeeping or comprehensive accounting functionalities in an online portal.
- Basic analytics and reporting tools to help you plan and control your business better.

At the core of Mesinkira's ethos lies a clear mission and vision that guides its endeavors. The mission is to revolutionize the software landscape by consistently delivering innovative and reliable solutions that empower businesses and individuals alike. Our shared commitment to excellence and innovation is paving the way for exciting opportunities and growth. Building strong connections and fostering teamwork is essential in achieving our collective vision. The vision is to be a trailblazer in the software industry, setting benchmarks for excellence and pushing the boundaries of technological possibilities.

1.5 Organization Structure

To effectively achieve its goals, Mesinkira employs a well-defined organizational structure. The company is divided into three departments, each playing a specific role in the company. These include:

1.5.1 Sales and Marketing Team:

This team is responsible for promoting Mesinkira's software solutions, engaging with potential clients, and ensuring the successful delivery of products to meet the unique needs of customers.

1.5.2 Finance Team:

The Finance Team is responsible for managing financial resources, budgeting, financial analysis, and compliance with regulatory standards.

1.5.3 Technical Team(Mesinkira):

Responsible for the actual coding and programming of software applications.

I was a team member of the Technical Team which is called Mesinkira.

Chapter 2: Training Experience

2.1 Company Related Experience

2.1.1 First Experiences

First day in Mesinkira I recognized my fellow colleagues. Only I was from the CSE of University Putra Malaysia who was selected there. In my room there is a technical team of Mesinkira. On the first day I felt so lonely because I didn't know anyone there. But on the second day it was better. They installed software on my laptop including every new tool which was new for me. Not only them but all the Microsoft related developing tools are new for me.

Next they organized a small presentation for me to introduce myself in front of all the departments. There they introduced their products, career in the company, international connections and their strengths and specializations in the technology field.

2.1.2 Daily Life in Mesinkira

As Associate Software Engineer I should present in the company at 9.00 a.m. in the morning. We get biscuits, fruits a day and also tea, coffee several times a day. We get our lunch at about 12.30 p.m. Normally we are allowed to leave the company at 5.00 p.m.



Figure 2.1 Work Environment

2.1.3 Work Measurement System

We need to go four days a week in the office. Friday we all work from home. Every week on Friday we have weekly meeting sessions where every department gives their work update online. I used to keep my weekly report in our university LI system which is under the logbook section.

2.1.4 Freedom in the Company

There are no hard restrictions for the employees in Mesinkira. Absence can be appealed by the company CEO. The time to come to the company can vary from 9.00 to

about one hour without any problem. If more than one hour late, it should be informed to the company CEO.

Entrance and exit times are automatically monitored by a card with a radio tag provided to each employee. So there is no requirement to sign a present sheet.

2.1.5 Entertaining Activities

Sometimes my company CEO takes all of us out to have dinner together. This time we all talked about other things without work and enjoyed our time all together. Sometimes we went to play badminton together.

2.2 Overview to Work Done during the Industrial Training

2.2.1 Introduction

During my whole training period I was mostly involved in a single project as a web developer which was made by me for this whole company. Other than that I also made layout for mesinkira documentation, additionally I also did some small tasks with my other teamates whenever they needed my help. Anyway this application consists of many technologies including the following major technologies:

1. Laravel Framework
2. Linux platform
3. Docker server
4. Visual Studio
5. SQLyog
6. PHP
7. Alpine Js
8. Tailwind Css
9. Github

The main project task was already started before I joined the company. Therefore it was a slower process of understanding the system and its architecture. As I was not familiar with some of the above mentioned technologies I was given a project with a database system to identify the structure and all basic standards related to the main system. For about three to four weeks I was involved with this project and then I created a completely new application which is called mesinkira/mkv1-retrofit for the company purpose which will be usable for internal staff of mesinkira.

During this project I learned the coding standards expected by the company. I did research that helped a lot to generate SQL code in appropriate coding standards. I used to learn how to use a framework, tailwind css and alpine js on the simple php code, the version management system that is useful to add changes by various programmers. Until the end of training I had many practices to learn and work on these technologies.

2.2.2 Project Work Overview and Schedule

In the first few weeks I was learning the technology and developing style for the company. Then I joined the Mesinkira-laravel project, the main project. After one month when I fully prepared to work with my teammates, they gave me a new task to work on a new application which is mesinkira/mkv1-retrofit which was a new version for the older system to use of internal staff of mesinkira that uses the web services of the older system. In the system I was involved in doing all the components and major part of the training was spent on that system.

The Gantt chart shows the time period I was involved in each component of the project. Some time periods coincide as some components were started before testing was performed after another component was started to develop.

2.3 Experience with Tools and Technologies

2.3.1 Laravel Framework

Laravel is a PHP framework for web application development, known for its expressive and elegant syntax. The Laravel framework has been an integral part of my experience in web application development. This PHP-based framework is renowned for its expressive and elegant syntax, providing a robust foundation for creating sophisticated and efficient web applications.

2.3.2 Linux platform

My proficiency extends to working on the Linux platform, where I have gained valuable experience in leveraging its features and capabilities. This includes navigating the Linux environment, executing commands, and optimizing performance for various tasks.

2.3.3 Docker server

In the realm of containerization, I have hands-on experience with Docker servers. Utilizing Docker technology, I have efficiently managed and deployed applications, fostering a streamlined and scalable development and deployment process.

2.3.4 Visual Studio

Visual Studio has been my primary integrated development environment (IDE) for coding and debugging. Its comprehensive set of features and tools has significantly contributed to my productivity and code quality across various projects.

2.3.5 SQLyog

SQLyog has been a crucial tool in my toolkit for database management. Its user-friendly interface and powerful functionality have facilitated seamless interaction with databases, allowing for efficient querying, management, and optimization of database systems.

2.3.6 PHP

Proficient in PHP, I have utilized this server-side scripting language to develop dynamic and interactive web applications. My experience with PHP extends to writing clean and efficient code, implementing server-side logic, and integrating it with various databases.

2.3.7 Alpine Js

Alpine.js has been a valuable addition to my skill set for front-end development. This lightweight JavaScript framework has enabled me to create dynamic and interactive user interfaces, enhancing the overall user experience of web applications.

2.3.8 Tailwind Css

Tailwind CSS has been my preferred choice for styling and designing web applications. Its utility-first approach and extensive set of pre-built styles have allowed me to create visually appealing and responsive user interfaces with ease.

2.3.9 Github

GitHub has played a pivotal role in my version control and collaborative development practices. Leveraging its features, I have effectively managed code repositories, collaborated with team members, and implemented version control best practices throughout the development lifecycle.

2.4 Technology Exposure

2.4.1 Laravel Framework

2.4.1.1 PHP:

Laravel is built on top of the PHP programming language. Exposure to Laravel implies proficiency in PHP, including server-side scripting, object-oriented programming, and the Laravel-specific features that enhance PHP development.

2.4.1.2 Composer:

Composer is a dependency manager for PHP, widely used in Laravel projects. It helps manage project dependencies, autoload classes, and streamline package management. Experience with Laravel involves using Composer to install and manage packages.

2.4.1.3 Blade Templating Engine:

Laravel comes with the Blade templating engine. Exposure to Laravel means familiarity with Blade, allowing for the creation of dynamic, reusable templates with its expressive syntax.

2.4.1.4 Eloquent ORM:

Laravel's Eloquent ORM provides an elegant, expressive way to interact with databases. Exposure to Laravel involves working with Eloquent to perform database operations using an object-oriented syntax.

2.4.1.5 Artisan Console:

Artisan is Laravel's command-line interface. Exposure to Laravel includes utilizing Artisan commands for tasks such as migrations, database seeding, and custom command creation.

2.4.1.6 Middleware:

Middleware in Laravel allows you to filter HTTP requests entering your application. Exposure to Laravel means understanding and working with middleware for tasks like authentication, logging, and request manipulation.

2.4.1.7 Routing:

Laravel provides a powerful routing system. Experience with Laravel involves defining and managing routes to control how the application responds to HTTP requests.

2.4.1.8 Volt:

Volt is a sophisticated functional API designed for Livewire, offering support for single-file components. This approach enables the seamless coexistence of a component's PHP logic and Blade templates within a single file. The functional API is intelligently compiled into Livewire class components, establishing a connection with the template embedded in the same file.

Advantages:

Eloquent ORM: Laravel comes with Eloquent, an advanced implementation of the active record pattern, simplifying database interactions.

Blade Templating: Laravel uses the Blade templating engine, which provides a clean, yet powerful syntax for writing views.

Artisan CLI: Laravel includes the Artisan command-line tool, offering a wide range of helpful commands for tasks like database migrations, testing, and more.

2.4.2 Linux platform

2.4.2.1 Arch Linux:

Arch Linux is a rolling release Linux distribution known for its simplicity, customization, and cutting-edge software. It follows a philosophy of minimalism and provides a package manager called pacman.

Advantages:

Rolling Release: Arch Linux is a rolling release system, meaning you get the latest software updates continuously without the need for reinstalling the entire operating system.

Customization: Arch Linux is highly customizable. Users can build their system from the ground up, selecting and installing only the packages they need.

PacMan Package Manager: Arch uses pacman as its package manager, which simplifies package installation, removal, and updates.

2.4.2.2 Fish Shell:

Fish is a user-friendly command-line shell for Unix-like operating systems. It aims to be more interactive and user-friendly than other shells, providing features like syntax highlighting, autosuggestions, and powerful scripting capabilities.

Advantages:

Syntax Highlighting: Fish shell offers syntax highlighting for commands, making it easier to read and understand the command line.

Autosuggestions: Fish provides intelligent suggestions as you type, which helps speed up the command entry process.

Scripting Capabilities: Fish supports scripting, allowing users to create powerful and efficient scripts for various tasks.

2.4.2.3 Integration of Arch Linux, Fish, and Laravel:

Development Environment Setup: Use pacman to install required development tools and PHP packages for Laravel development.

Fish Shell Configuration: Customize Fish shell settings and utilize its features like autosuggestions to enhance command-line productivity.

Laravel Project Setup: I use Composer (PHP's dependency manager) to create a new Laravel project, following Laravel's documentation.

Artisan Commands: Leverage Artisan commands for tasks like creating controllers, migrations, and models.

Database Configuration: Configure Laravel to work with your preferred database, taking advantage of Eloquent ORM.

By combining Arch Linux, Fish shell, and Laravel, developers can create a robust and efficient development environment. The rolling release nature of Arch Linux ensures up-to-date software, Fish shell provides an interactive and user-friendly command-line experience, and Laravel simplifies modern PHP web development.

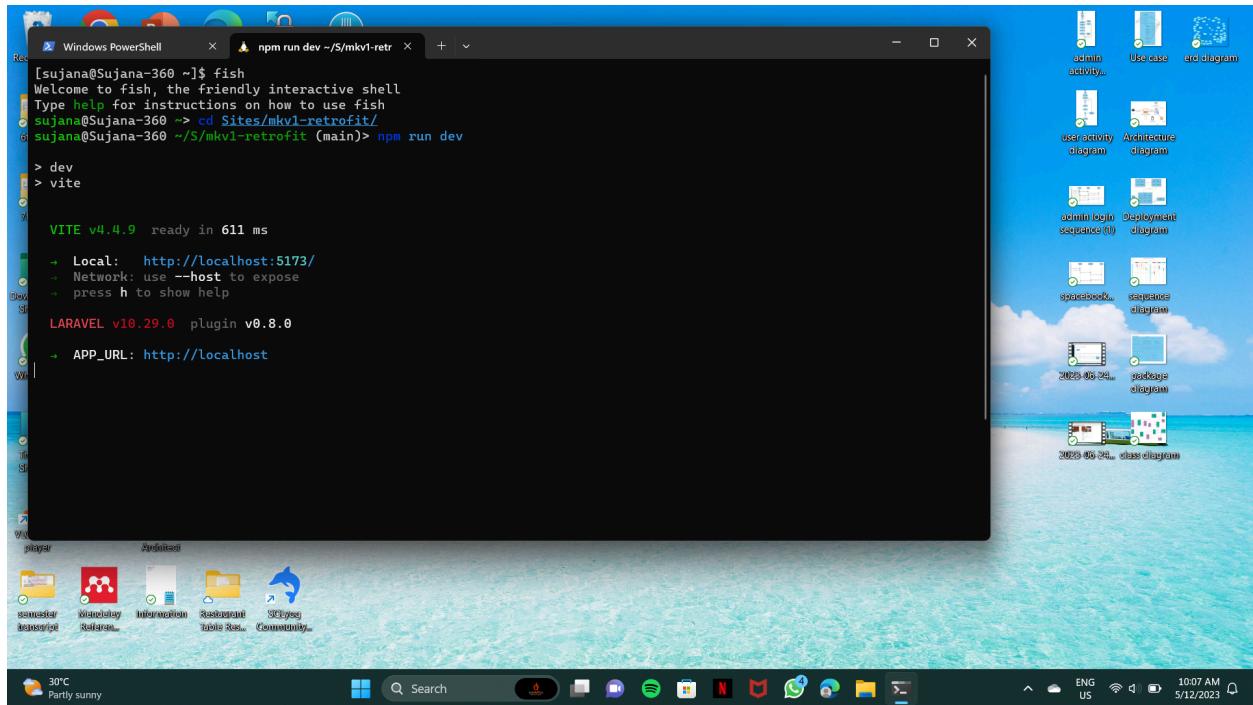


Figure 2.2 Linux Platform

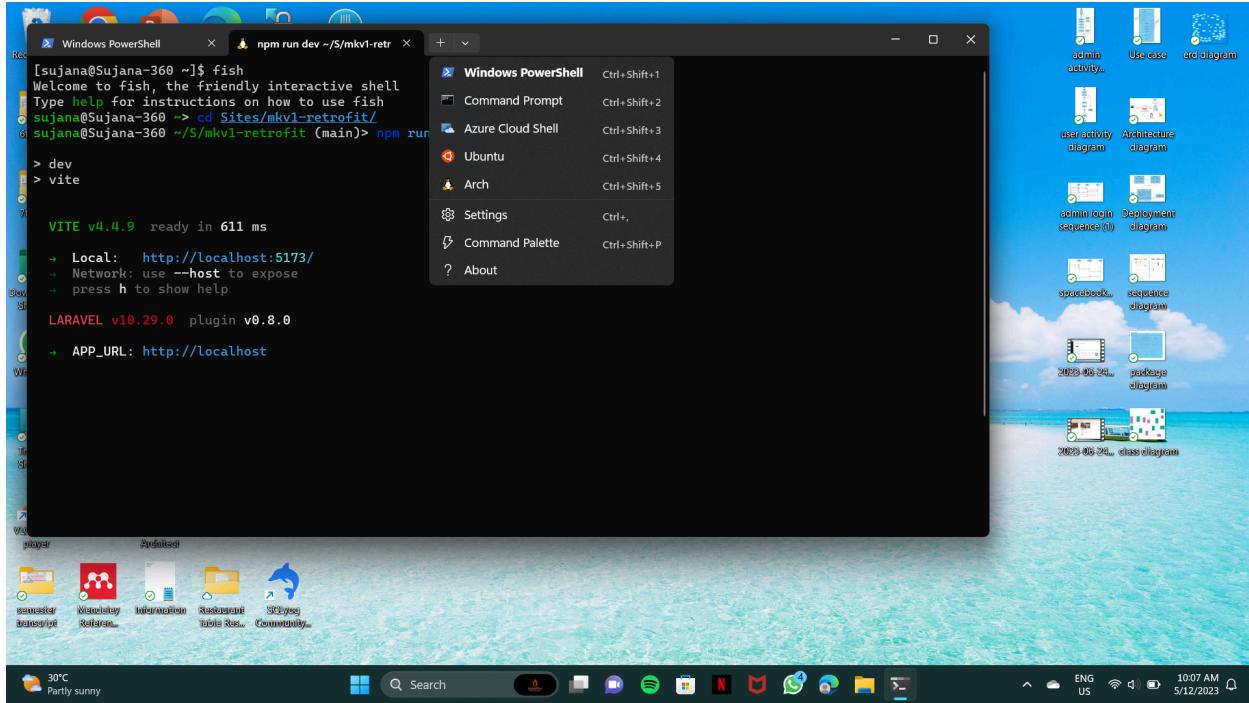


Figure 2.3 Project Open

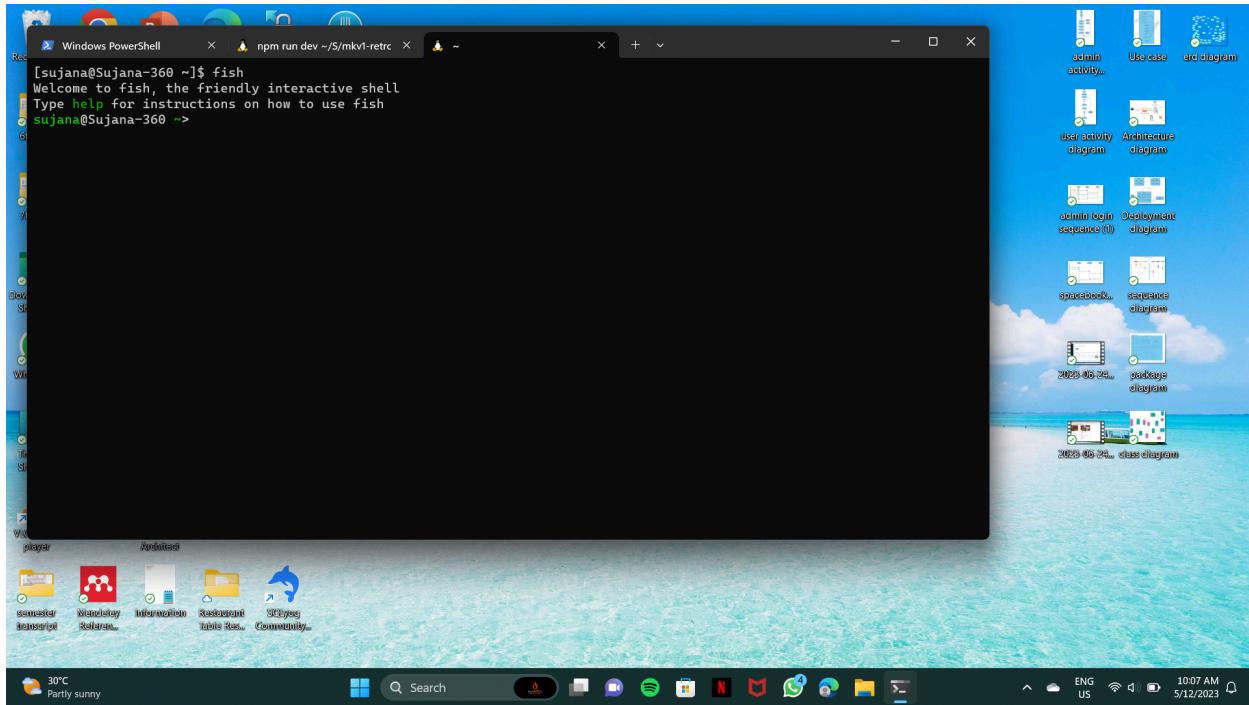


Figure 2.4 Fish Shell

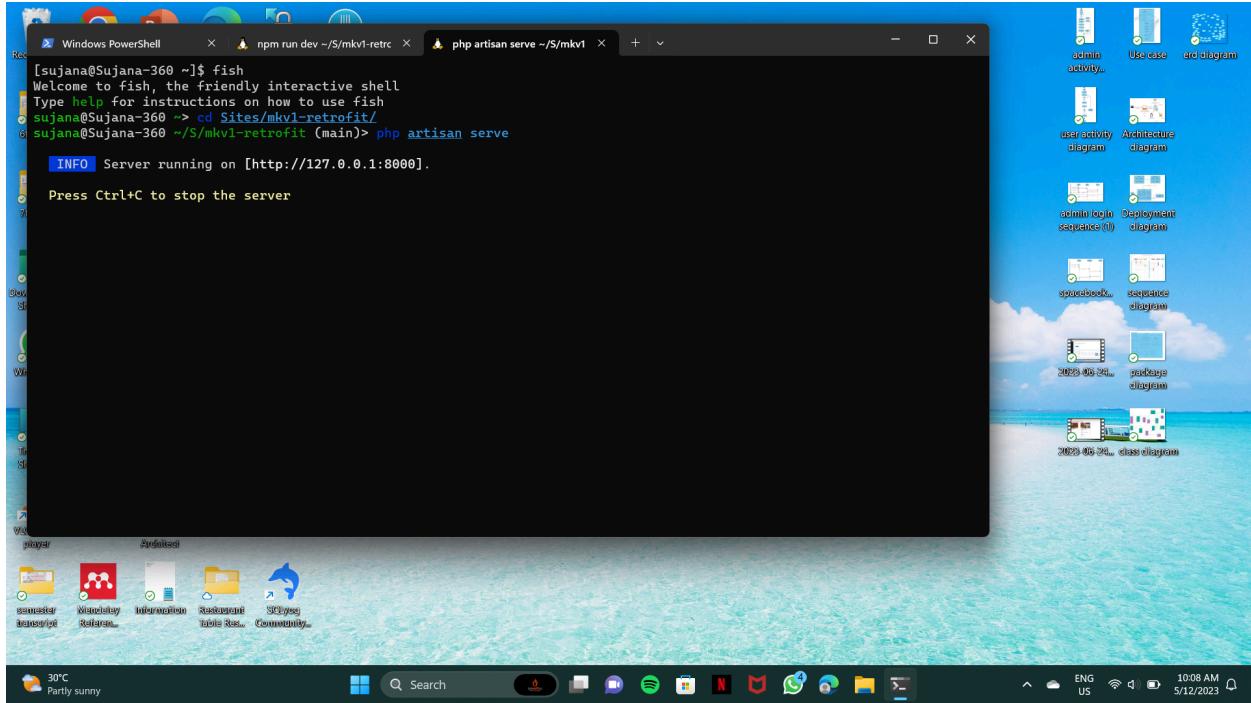


Figure 2.5 Project Open

2.4.3 Docker server

2.4.3.1 Install Docker:

Download and install Docker from the official website.

2.4.3.2 Docker Server:

The Docker server is a daemon process running on a host machine. It manages Docker containers and facilitates communication between the Docker client and the host operating system to execute container-related commands.

2.4.3.3 Docker Compose:

Docker Compose is a tool for defining and running multi-container Docker applications. It allows to define complex multi-container environments in a single file and deploy them with a single command.

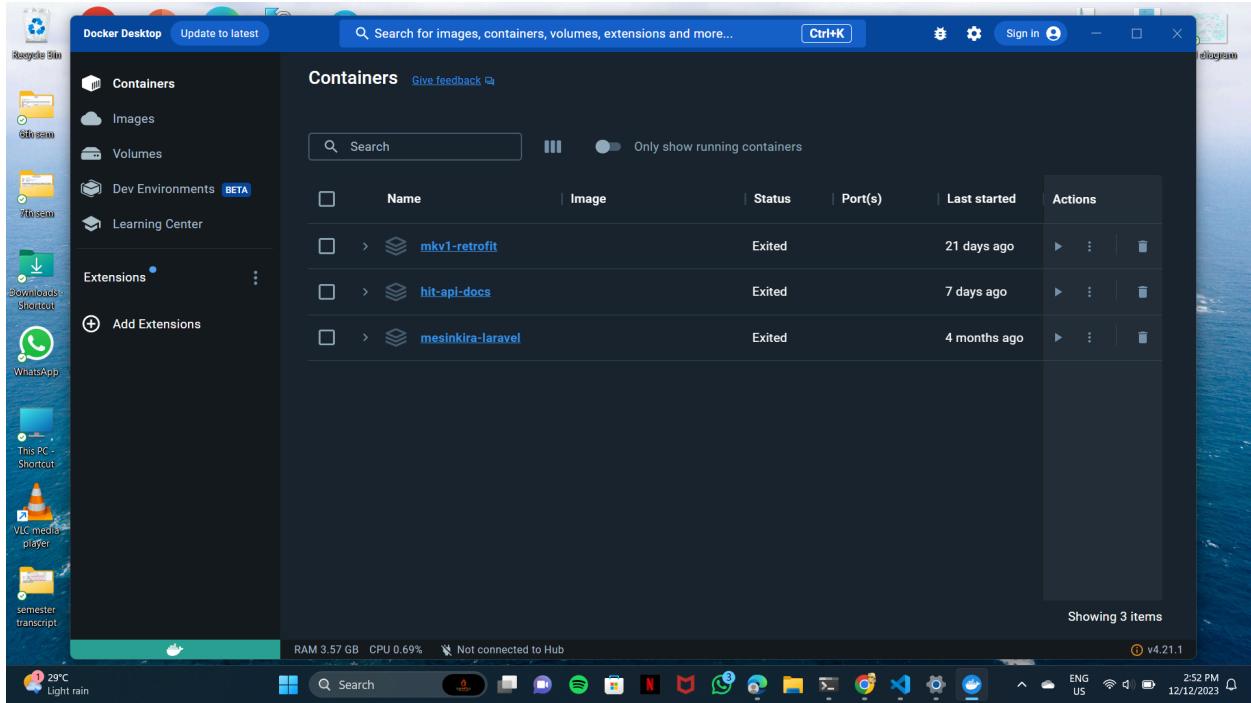


Figure 2.6 Docker Server Starting

2.4.3.4 Benefits of Docker:

Portability: Docker containers can run on any machine with Docker installed, providing portability across different environments.

Isolation: Containers isolate applications and their dependencies, reducing conflicts and ensuring consistency.

Resource Efficiency: Containers share the host OS kernel, making them more lightweight than traditional virtual machines.

2.4.4 Visual Studio

Visual Studio is a versatile integrated development environment (IDE) offering a user-friendly interface for coding, debugging, and deploying applications. It supports multiple programming languages, provides advanced code editing with features like IntelliSense, and facilitates collaborative development with Git integration. Robust debugging tools, unit testing support, and extensibility enhance the development experience. Visual Studio caters to various application types, including desktop, web, mobile, and cloud-based, and integrates with Azure for continuous integration and deployment. It stands out for its efficiency and comprehensive toolset, making it a top choice for developers.

While Visual Studio is a powerful integrated development environment (IDE), it is not the most commonly used choice for Laravel web application development. Laravel, being a PHP framework, is often developed using tools more tailored to PHP development. However, I am comfortable with Visual Studio and want to use it for Laravel. I need to do some additional configurations to implement my application.

Install Visual Studio:

Download and install Visual Studio from the official website.

Install PHP Extension:

Install the PHP Tools extension for Visual Studio. This extension provides support for PHP development within Visual Studio.

Configure PHP Settings:

Configure PHP settings in Visual Studio, such as specifying the PHP executable path and other relevant configurations.

Create a Laravel Project:

I can create a Laravel project either through the command line or using Composer. Visual Studio might have integrated Composer support or I can use the terminal to run Composer commands.

Configure Laravel Development:

Configure Visual Studio to recognize Laravel-specific features and conventions. This may involve adjusting settings or installing additional extensions that provide Laravel support.

Configure Laravel Livewire:

Take the configuration command line to install it from the official website.

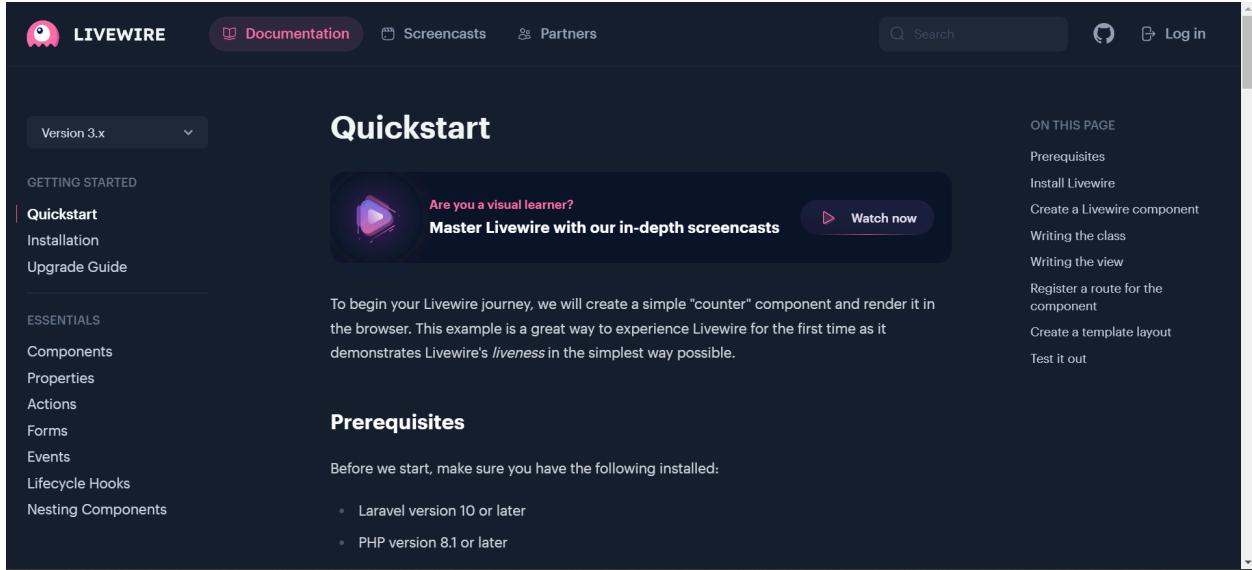


Figure 2.7 Laravel Livewire

Configure Tailwind Css:

Take the configuration command line to install it from the official website.

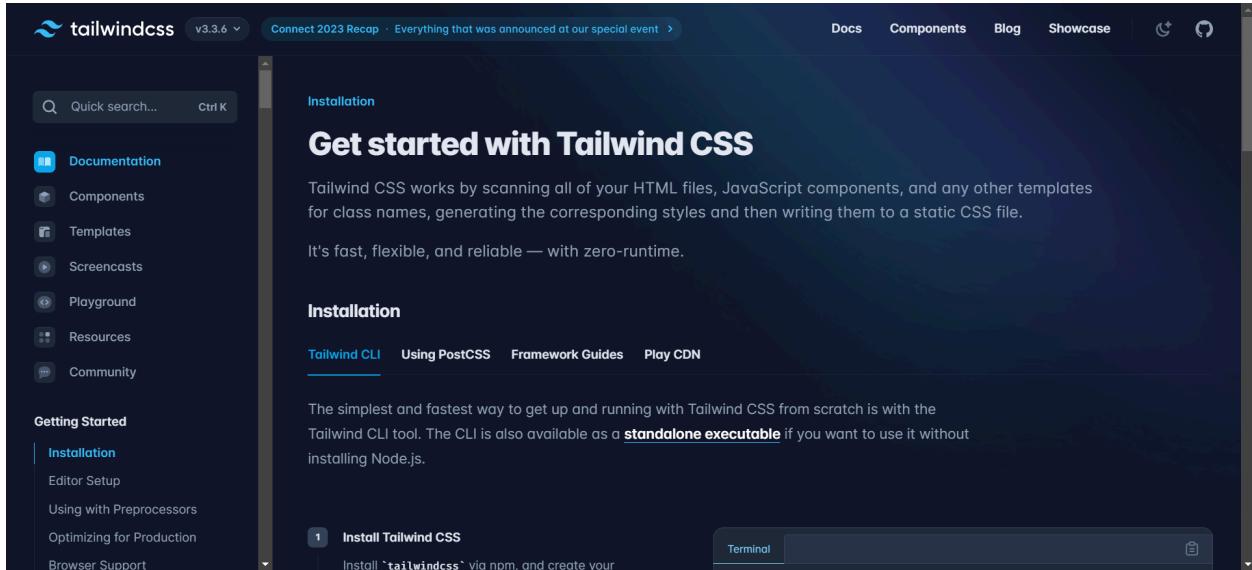


Figure 2.8 Tailwind Css

Configure Laravel Folio:

Take the configuration command line to install it from the official website of laravel folio.

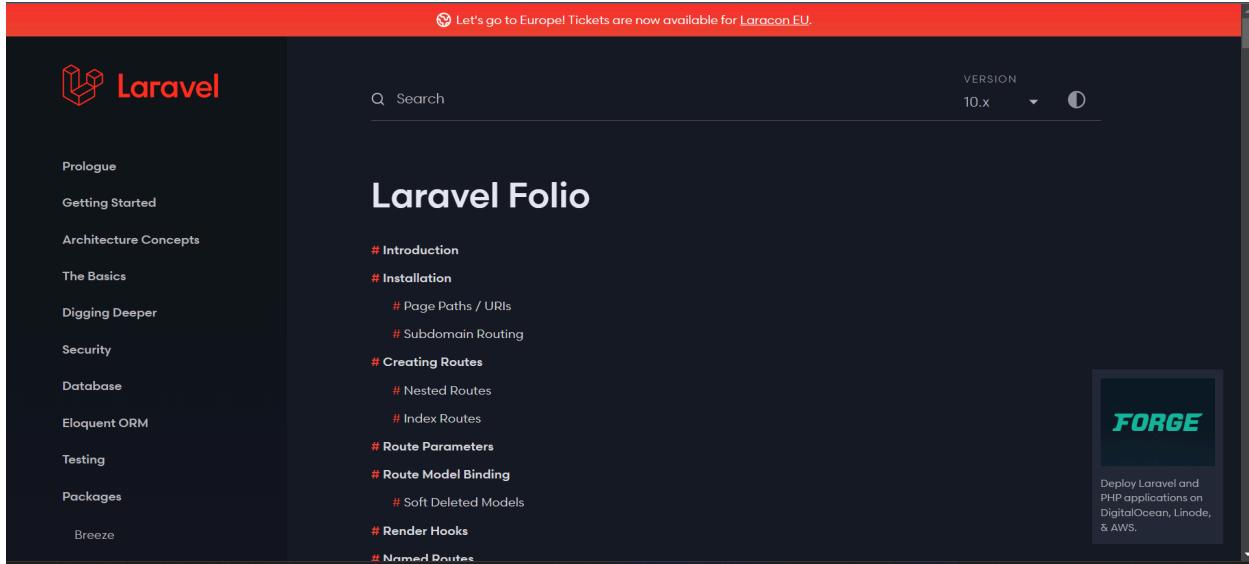


Figure 2.9 Laravel Folio

Configure Volt:

Take the configuration command line to install it from the official website of laravel livewire.

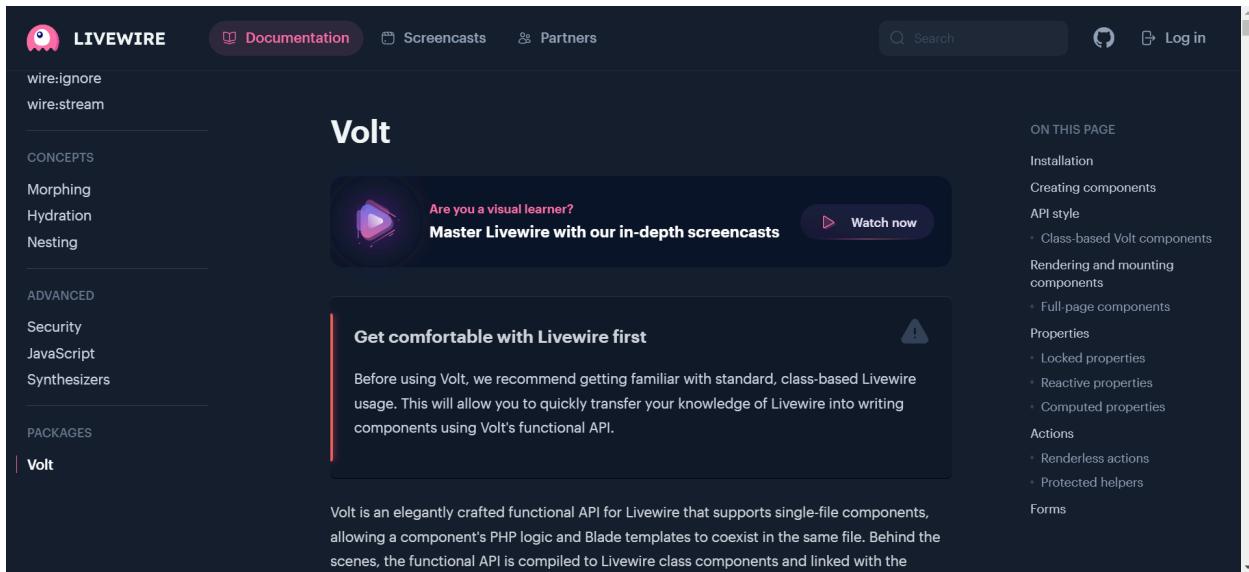


Figure 2.10 Volt Package

Configure Alpine Js:

Take the configuration command line to install it from the official website of Alpine Js.

The screenshot shows the Alpine.js website's 'Start Here' page. On the left, there's a sidebar with navigation links like 'Start Here', 'Upgrade From V2', 'Essentials' (Installation, State, Templating, Events, Lifecycle), 'UI Components' (Dropdown, Modal), and 'Directives' (x-data, x-init, x-show, x-bind, x-on, x-text, x-html, x-model). The main content area has a heading 'Start Here' and instructions to create a blank HTML file named 'i-love-alpine.html'. It includes a code snippet:

```
<html>
<head>
  <script defer src="https://cdn.jsdelivr.net/npm/alpinejs@3.x.x/dist/cdn.min.js"></script>
</head>
<body>
  <h1 x-data="{ message: 'I ❤️ Alpine' }" x-text="message"></h1>
</body>
</html>
```

Below the code, it says 'Open your file in a web browser, if you see I ❤️ Alpine, you're ready to rumble!'. To the right, there's a sidebar titled 'ON THIS PAGE' with a list of topics: Building a counter, Declaring data, Listening for events, Reacting to changes, Building a dropdown, Toggling elements, Listening for a click outside, Building a search input, Multi line formatting, Binding to inputs, Computed properties using getters, Looping elements, and Recap. At the bottom right is a black icon with a white 'D' shape.

Figure 2.11 Alpine.js

Configure Icon:

Take the configuration command line to install it from the official website of icon blade. Mostly I use iconsax to develop my project.

The screenshot shows the Blade Icons website's 'Blade Icons' page. At the top, there's a navigation bar with a logo, 'Documentation', 'Blade Icons', and social media links. The main content area has a large heading 'Blade Icons' and a subtext: 'A package to easily make use of SVG icons in your Laravel Blade views. Choose from a wide selection of icon sets. Like the Heroicons on the right.' Below this, there's a note: 'Heart Makes using SVG icons as simple as...'. A code snippet is shown in a dark box:

```
<x-heroicon-s-heart class="h-6 w-6 text-red-600" />
```

At the bottom, there are two buttons: 'Get started' and 'Search Icons'. To the right, there's a large grid of red icons, likely the 'Heroicons' mentioned in the text.

Figure 2.12 Blade Icons

Configure Key Generate:

Key generation is very important after cloning the project from github.

Run and Debug:

Configure Visual Studio for running and debugging Laravel applications. Ensure that the web server is set up correctly, and I can use Visual Studio's debugging tools.

Version Control:

Integrate Visual Studio with version control systems (e.g., Git).

2.4.5 SQLyog

SQLyog is a popular graphical user interface (GUI) tool for managing and interacting with relational databases, especially those that use MySQL. It provides a user-friendly interface for database administrators, developers, and other users to perform various database-related tasks. SQLyog features an intuitive and visually appealing interface that allows users to easily navigate and manage their databases. Users can view, create, modify, and delete database tables through the GUI. SQLyog also allows for easy insertion, updating, and deletion of data records. Users can view, create, modify, and delete database tables through the GUI. SQLyog also allows for easy insertion, updating, and deletion of data records. For secure connections, SQLyog supports SSH and HTTP tunneling, ensuring the confidentiality of data during transmission.

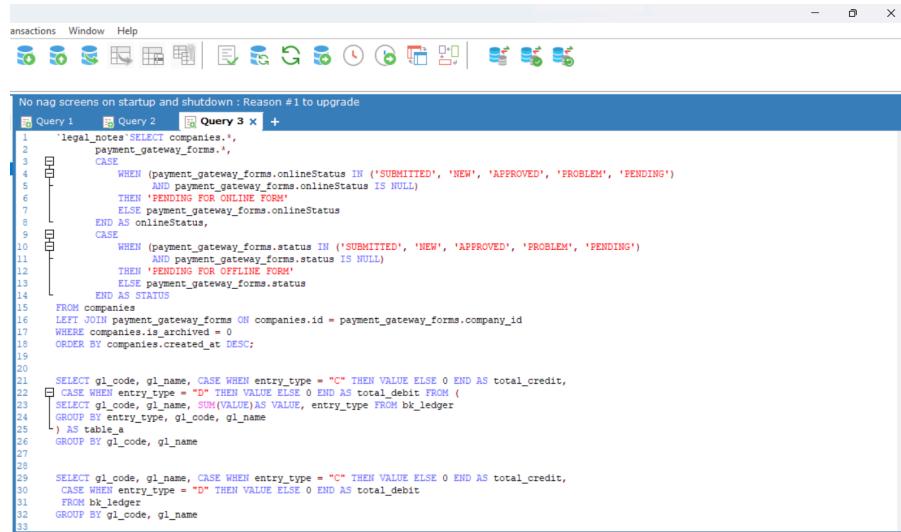


Figure 2.13 Sqlyog

2.4.6 PHP

PHP (Hypertext Preprocessor) is a widely used server-side scripting language designed for web development. PHP code is typically embedded directly within HTML, allowing developers to mix dynamic content generation with static HTML content. PHP has various error handling mechanisms, including try-catch blocks for exception handling

and logging functions for debugging. PHP includes features for handling user authentication, data validation, and protection against common web security threats, such as SQL injection and cross-site scripting (XSS). PHP has a rich ecosystem of frameworks, such as Laravel that provide pre-built modules and conventions for efficient and organized web development. It remains a popular choice for web development, particularly for creating dynamic and interactive websites for me.

2.4.7 Alpine Js

Alpine.js is a lightweight JavaScript framework for building interactive web applications. It's designed to be easy to pick up and use, especially for developers familiar with traditional server-rendered applications.

2.4.8 Tailwind Css

Tailwind CSS is a utility-first CSS framework that provides a set of low-level utility classes to build designs directly in our markup. Tailwind CSS is known for its simplicity, flexibility, and the ability to rapidly prototype and build user interfaces. It is often used in conjunction with other tools and frameworks to streamline the development process.

2.4.9 Github

GitHub is a web-based platform that provides version control using Git. It is widely used for hosting and collaborating on software development projects. Here are some key aspects of GitHub:

Version Control:

GitHub is built on top of Git, a distributed version control system. It allows multiple developers to collaborate on a project, tracking changes, and managing different versions of the codebase.

Repositories:

In GitHub, a repository (repo) is a collection of files and folders associated with a project, along with the version history. Repositories can be public or private, depending on the project's visibility settings.

Branching and Merging:

GitHub supports branching, allowing developers to work on different features or bug fixes simultaneously. Changes made in branches can be merged back into the main branch (typically master or main).

Pull Requests:

Pull Requests (PRs) are a mechanism for proposing changes and getting feedback from other team members. They are often used in conjunction with branching to merge code changes back into the main branch.

Collaboration:

GitHub facilitates collaboration among team members. Issues can be created to track tasks, bugs, or feature requests. Teams can discuss and prioritize tasks within the repository.

GitHub Actions:

GitHub Actions is a built-in CI/CD (Continuous Integration/Continuous Deployment) tool. It allows me to automate workflows, such as running tests, building and deploying applications, in response to various events.

Code Review:

GitHub provides a user-friendly interface for code review. I can leave comments on specific lines of code, suggest changes, and discuss improvements directly within the pull request.

Wikis and Documentation:

GitHub repositories often include a wiki for documentation. Additionally, Markdown files in the repository can serve as READMEs and documentation, providing information about the project, installation instructions, and usage guidelines.

Security and Permissions:

GitHub offers features to enhance the security of codebase, including vulnerability scanning and dependency analysis. Access to repositories can be controlled through granular permission settings.

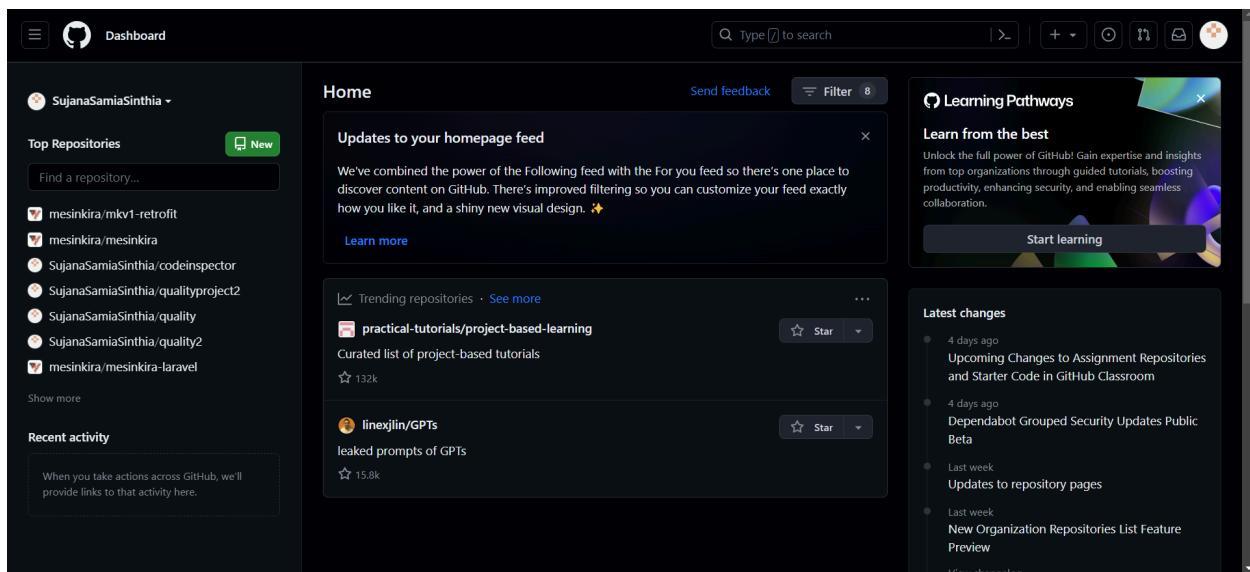


Figure 2.14 Github

GitHub is a fundamental tool in modern software development, enabling collaboration, version control, and automation in the software development lifecycle. All of my teammates in Mesinkira work together by collaborating with each other's task in github.

Chapter 3 : Tasks Performed(Monthly)

3.1 Tasks (August)

At the beginning of the internship program I observe to know the technology they use for web development and the environment of the company. My first task is to install all these technologies from the official website and set up everything in my laptop. After joining in the company my core tasks was:

- In this month I mostly spent my time researching and learning on how to use terminal by basic command ,use tailwind css, how to use blade icon, use volt function in laravel framework, installing Laravel/folio, installing docker server, installing tailwind css, installing volt package, arch distro command, laravel set up, project clone from github.
- After that, to test my ability , my supervisor asked me to create a login page with all these technologies. Then I successfully created a login page with laravel framework, tailwind css and volt function.

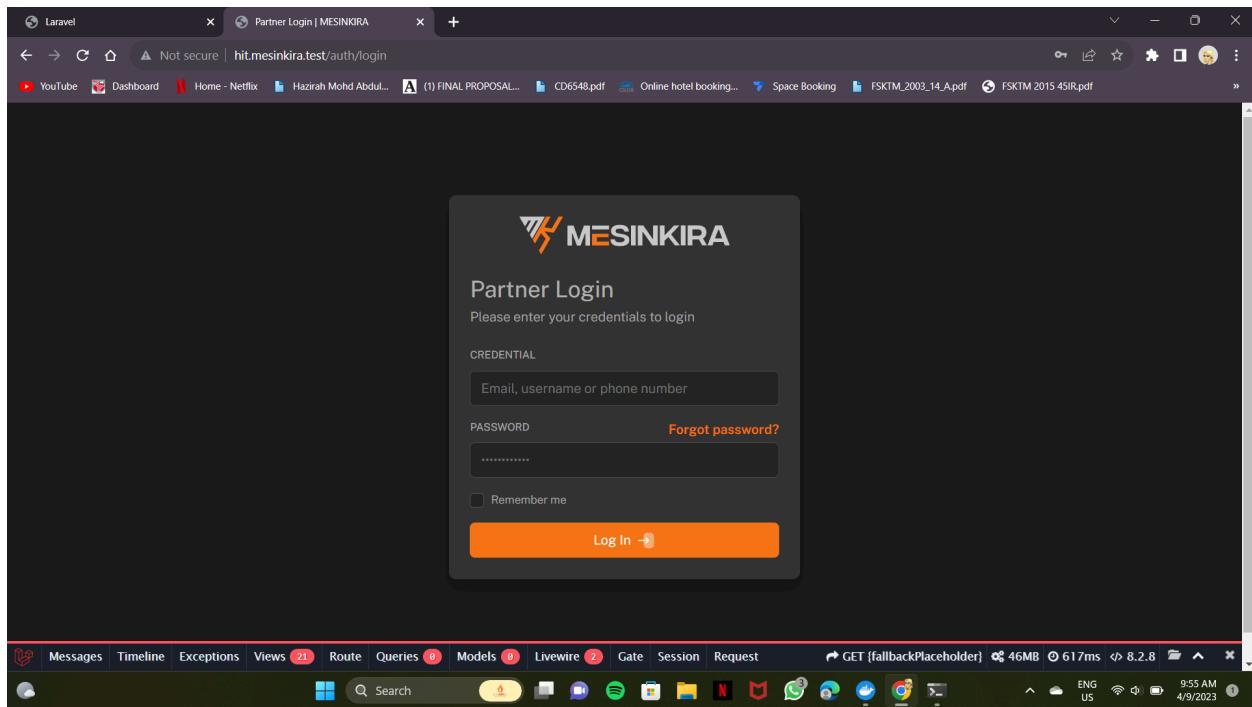


Figure 3.1 Login UI

- I also learned how to use alpine js. Use of mount,render,state function in laravel.
- Making email verification template for Mesinkira application using Tailwind Css.

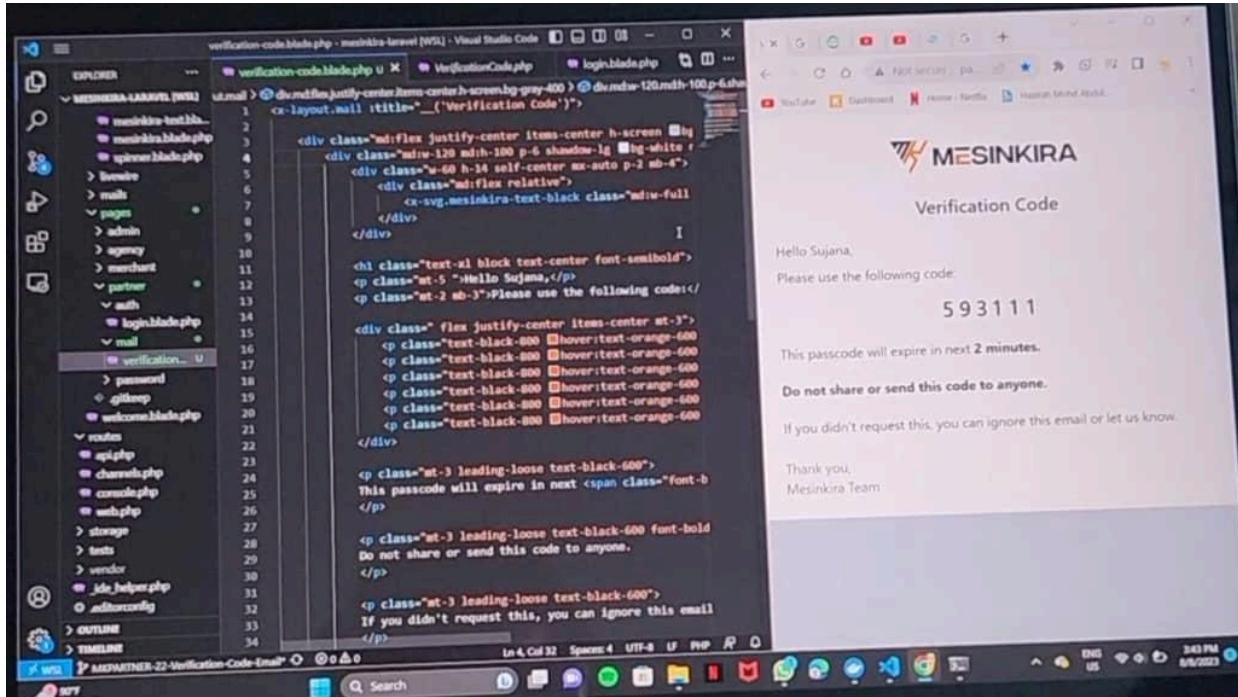


Figure 3.2 Email Template

- Create a code for the whole user-list for frontend design of Bank Islam version-3. Creating a user-list where all the users of Bank Islam will be shown and also with the feature of filter and search button.
- Create a program-list for frontend development for Bank Islam version-3.
- Learn about API documentation. I learned how to make an API. I made a Login and Logout API with a postman.

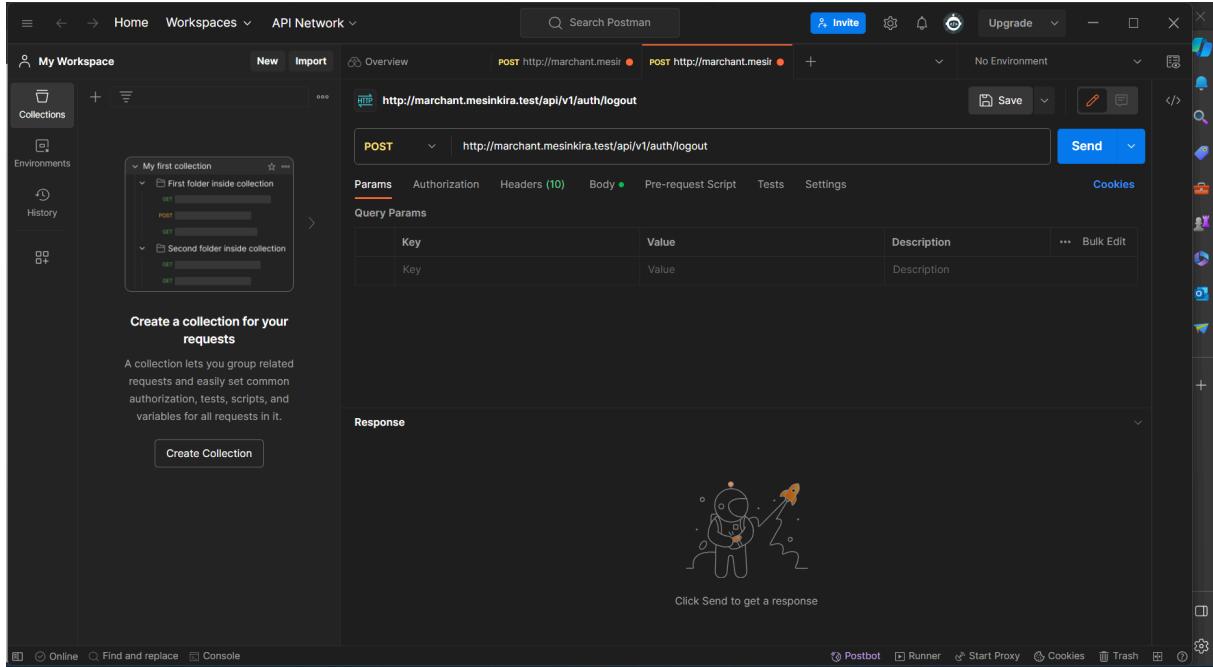


Figure 3.3 Postman

3.2 Tasks (September)

- This month I was ordered to make a layout for API documentation of Mesinkira application. Create a full API documentation layout by Alpine js and tailwind css with laravel framework.

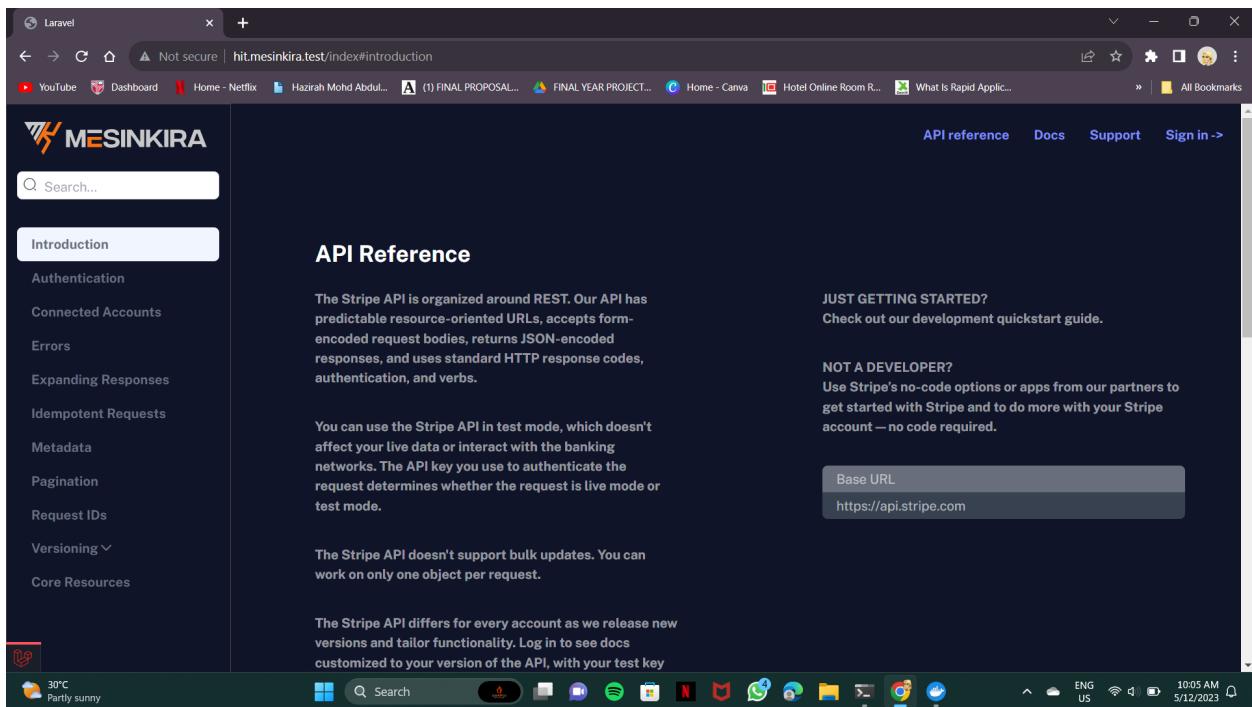


Figure 3.4 Mesinkira Documentation Layout

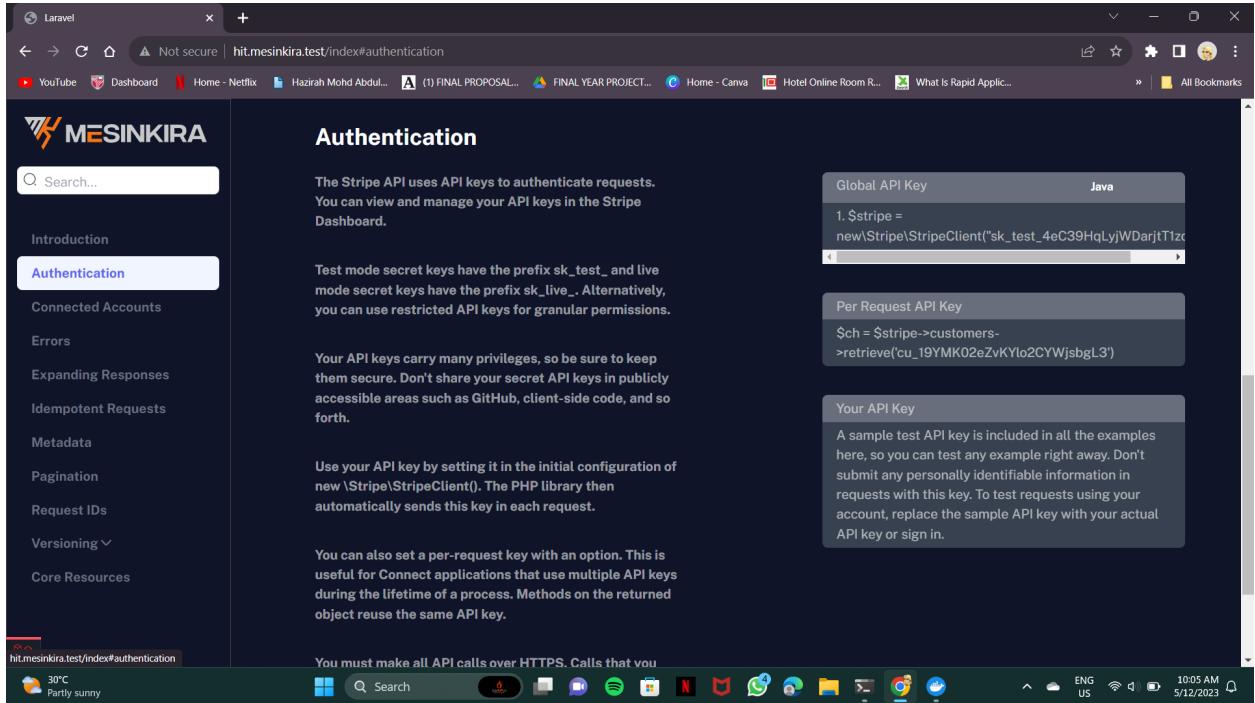


Figure 3.5 Mesinkira Documentation Layout

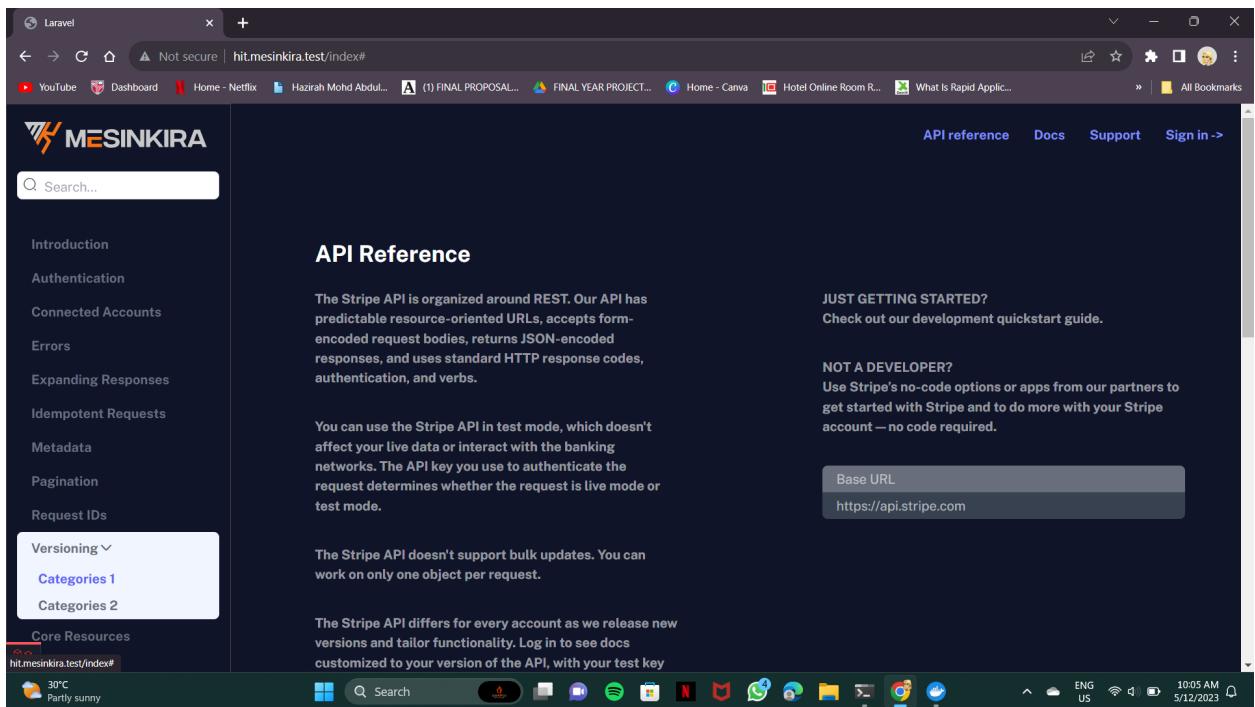


Figure 3.6 Mesinkira Documentation Layout

- Retrieve data from the Mesinkira production database and submit that to another teammate.

```
No nag screens on startup and shutdown : Reason #1 to upgrade

1  Query 1 + Query 2 + Query 3 +
2
3  legal_notes SELECT companies.*,
4    payment_gateway_forms.*
5
6  CASE
7    WHEN (payment_gateway_form.onlineStatus IN ('SUBMITTED', 'NEW', 'APPROVED', 'PROBLEM', 'PENDING')
8      AND payment_gateway_forms.onlineStatus IS NULL)
9    THEN 'PENDING FOR ONLINE FORM'
10   ELSE payment_gateway_forms.onlineStatus
11 END AS onlineStatus,
12 CASE
13   WHEN (payment_gateway_forms.status IN ('SUBMITTED', 'NEW', 'APPROVED', 'PROBLEM', 'PENDING')
14     AND payment_gateway_forms.status IS NULL)
15   THEN 'PENDING FOR OFFLINE FORM'
16   ELSE payment_gateway_forms.status
17 END AS status
18
19 FROM companies
20 LEFT JOIN payment_gateway_forms ON companies.id = payment_gateway_forms.company_id
21 WHERE companies.is_archived = 0
22 ORDER BY companies.created_at DESC;
23
24
25
26
27
28
29
30
31
32
33
```

Figure 3.7 Data Retrieval

Mostly this month was spent fixing the Mesinkira documentation layout for the desired design of it.

3.3 Tasks (October)

This month I got a new task to do. I need to create a new application for Mesinkira internal staff. The application is called mkv1-retrofit which is a collaboration from some function of Mesinkira version 1 as a purpose of convenient use to the internal staff to notify some specific area of Mesinkira merchants.

- To make the merchant-list-table from the Mesinkira production version-1 database. Project set up and connected with the database. Making laravel layout and list table creation with code. Configure all the technologies in the project that we used to develop for application.
 - Create a table with collaborating from both pages on the merchant list and merchant payment gateway.
 - Complete Merchant-list-table with filter and search as well as sorting function. Make the layout for the filter and search button. I need to learn how to give and set the function for making search and filter buttons and also sort the data in the UI from the database.
 - Complete the merchant-list table by fixing the logout function and push it in github. Fixing logout function by setting the auth in middleware and pushing the code in github.
 - Deploy the merchant list table on the server. Merchant list table deployed in the server (AWS).

- Fix it with the marketplace and legal notes button. Fixed the merchant-list table with the button marketplace and legal notes and also with the function.

MERCHANTS LIST

#	COMPANY NAME	EMAIL	PHONE	CREATED AT	PAYMENT APPLICATION STATUS	ONLINE PAYMENT APPLICATION STATUS	PAYMENT CONFIG COMPLETED	AGENT NAME	AGENT EMAIL	PACKAGE	ACTION
1	Demo test(2858)	demococo@gmail.com	--	2023-11-08 15:12:54	n/a	n/a	(X)	InternalAgent	A000@mesinkira.io	Free	Payment Config Archive Legal Notes Marketplace Activate Package Override
2	Demo jocelk22173@laserlip.com Sdn Bhd(·)	--	--	2023-02-16 10:20:00	n/a	n/a	(X)	InternalAgent	A000@mesinkira.io	Free	Payment Config Archive Legal Notes Marketplace Activate Package Override
3	demo maral81909@jobsfeel.com Sdn Bhd(·)	--	--	2023-02-16 15:32:33	n/a	n/a	(X)	InternalAgent	A000@mesinkira.io	Free	Payment Config Archive Legal Notes Marketplace Activate Package Override
4	Demo ricer52453@laserlip.com Sdn Bhd(·)	--	--	2023-02-16 15:17:50	n/a	n/a	(X)	InternalAgent	A000@mesinkira.io	Free	Payment Config Archive Legal Notes Marketplace Activate Package Override
5	Demo mabog54547@aosod.com Sdn Bhd(·)	--	--	2023-02-14 13:28:39	n/a	n/a	(X)	InternalAgent	A000@mesinkira.io	Free	Deactivate Marketplace Archive Legal Notes Marketplace Info
6	Demo democodoke5025@jobsfeelcom-2939 Sdn Bhd(·)	--	--	2023-02-14 12:18:35	n/a	n/a	(X)	InternalAgent	A000@mesinkira.io	Free	Payment Config Archive Legal Notes Marketplace Activate Package Override
7	Demo codoke5025@jobsfeel.com Sdn Bhd(·)	--	--	2023-02-14 12:10:41	n/a	n/a	(X)	InternalAgent	A000@mesinkira.io	Free	Payment Config Archive Legal Notes Marketplace Activate Package Override

Figure 3.8 Merchant List

MERCHANTS LIST

#	COMPANY NAME	EMAIL	PHONE	CREATED AT	PAYMENT APPLICATION STATUS	ONLINE PAYMENT APPLICATION STATUS	PAYMENT CONFIG COMPLETED	AGENT NAME	AGENT EMAIL	PACKAGE	ACTION
4	Demo ricer52453@laserlip.com Sdn Bhd(·)	--	--	2023-02-16 15:17:50	n/a	n/a	(X)	InternalAgent	A000@mesinkira.io	Free	Payment Config Archive Legal Notes Marketplace Activate Package Override
5	Demo mabog54547@aosod.com Sdn Bhd(·)	--	--	2023-02-14 13:28:39	n/a	n/a	(X)	InternalAgent	A000@mesinkira.io	Free	Deactivate Marketplace Archive Legal Notes Marketplace Info
6	Demo democodoke5025@jobsfeelcom-2939 Sdn Bhd(·)	--	--	2023-02-14 12:18:35	n/a	n/a	(X)	InternalAgent	A000@mesinkira.io	Free	Payment Config Archive Legal Notes Marketplace Activate Package Override
7	Demo codoke5025@jobsfeel.com Sdn Bhd(·)	--	--	2023-02-14 12:10:41	n/a	n/a	(X)	InternalAgent	A000@mesinkira.io	Free	Payment Config Archive Legal Notes Marketplace Activate Package Override
8	Demo bisame6544@aosod.com Sdn Bhd(·)	--	--	2023-02-14 12:02:25	n/a	n/a	(X)	InternalAgent	A000@mesinkira.io	Free	Payment Config Archive Legal Notes Marketplace Info
9	Demo nafib7241@laserlip.com Sdn Bhd(·)	--	--	2023-02-14 11:54:15	n/a	n/a	(X)	InternalAgent	A000@mesinkira.io	Free	Deactivate Marketplace Archive Legal Notes Marketplace Info
10	Demo coxit64835@laserlip.com Sdn Bhd(·)	--	--	2023-02-14 11:47:32	n/a	n/a	(X)	InternalAgent	A000@mesinkira.io	Free	Payment Config Archive Legal Notes Marketplace Activate Package Override

Figure 3.9 Pagination

3.4 Tasks (November)

After that I continuously develop this application according to the feedback of other departments.

Merchant-list-table(retrofit Mesinkira) need to add more features on:

- Online and offline payment gateway
- Register Online and offline payment gateway
- Add agent column and filter
- Payment gateway status update
- Payment gateway Print pdf
- Fixed marketplace activation

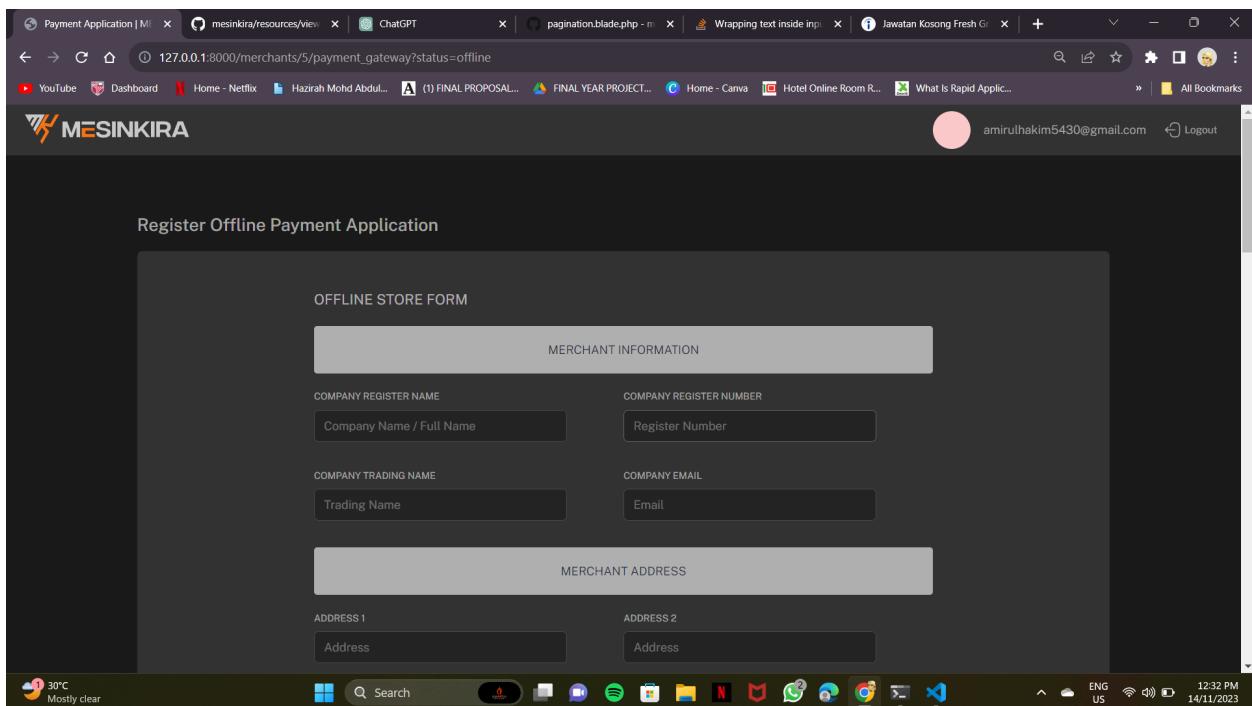


Figure 3.10 Payment Gateway

MESINKIRA

Name	Title
RELATIONSHIP 1	TYPE 1
Relationship	Type
NAME 2	TITLE 2
Name	Title
RELATIONSHIP 2	TYPE 2
Relationship	Type
NAME 3	TITLE 3
Name	Title
RELATIONSHIP 3	TYPE 3
Relationship	Type

Buttons: Save, V1 Link, Back

Figure 3.11 Payment Gateway

MESINKIRA

Register Online Payment Application

OFFLINE STORE FORM

MERCHANT INFORMATION	
COMPANY REGISTER NAME	COMPANY REGISTER NUMBER
Company Name / Full Name	Register Number
COMPANY TRADING NAME	COMPANY EMAIL
Trading Name	Email

MERCHANT ADDRESS

ADDRESS 1	ADDRESS 2
Address	Address

Figure 3.12 Payment Gateway

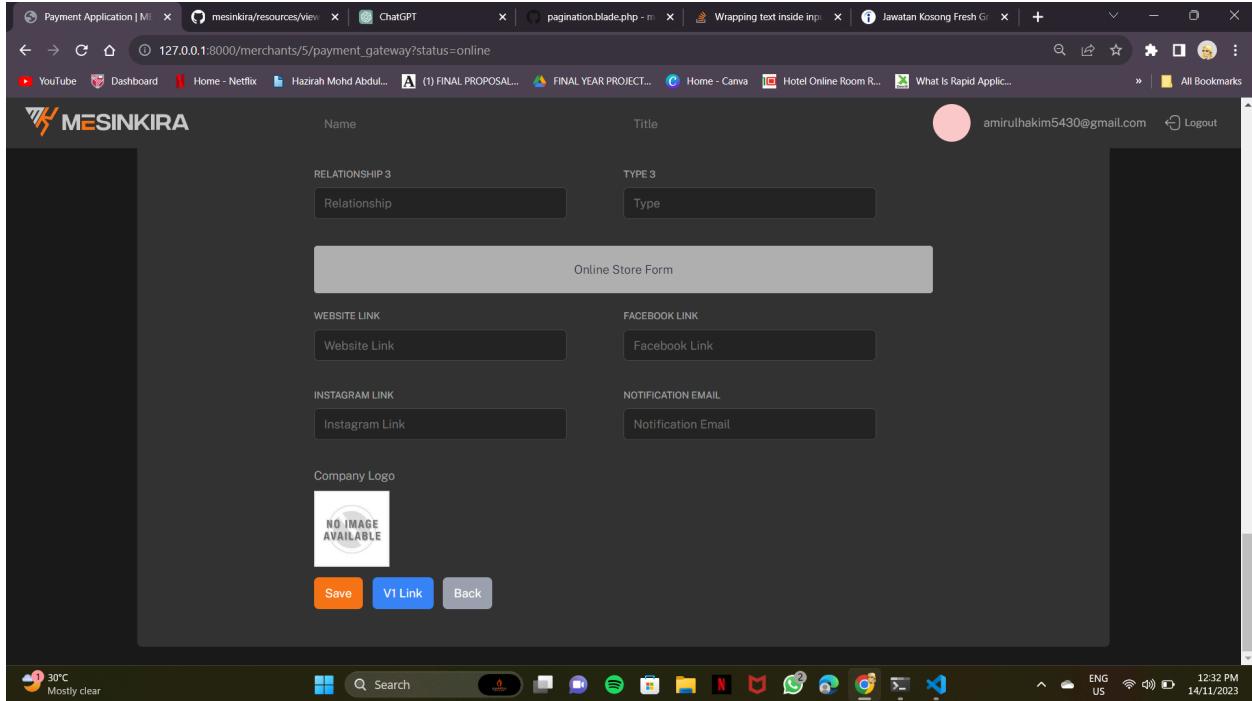


Figure 3.13 Payment Gateway

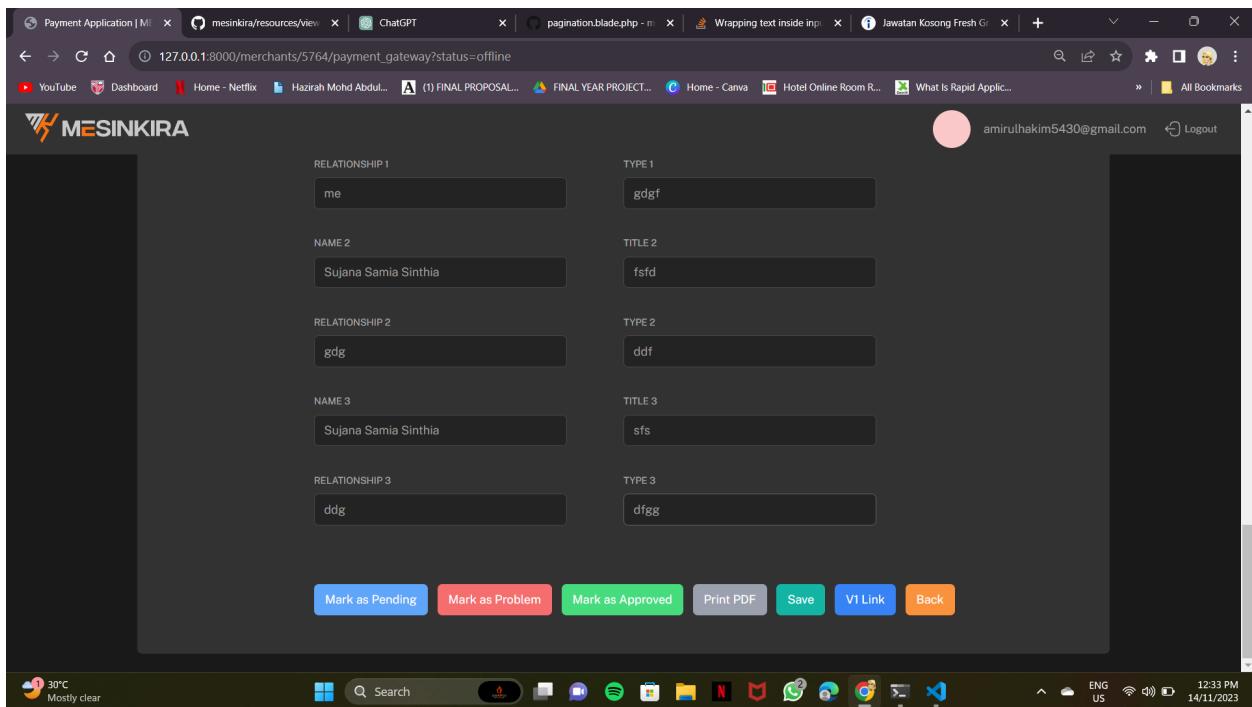


Figure 3.14 Payment Gateway

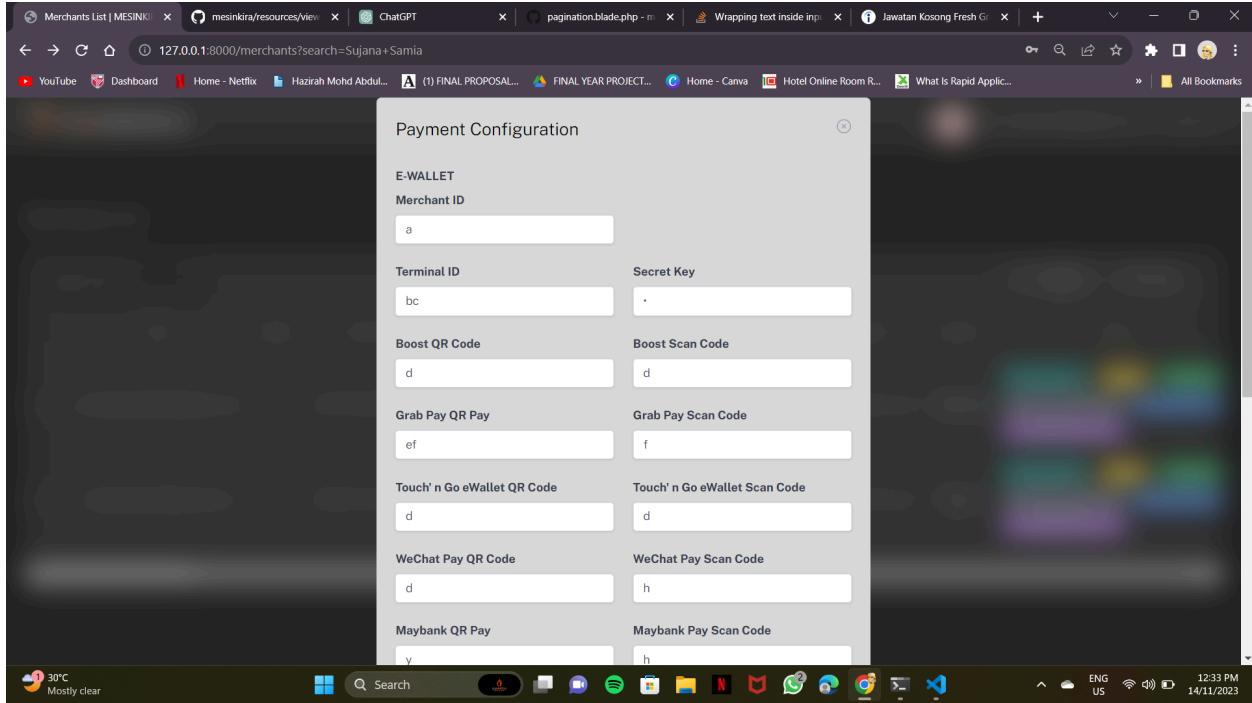


Figure 3.15 Payment Config

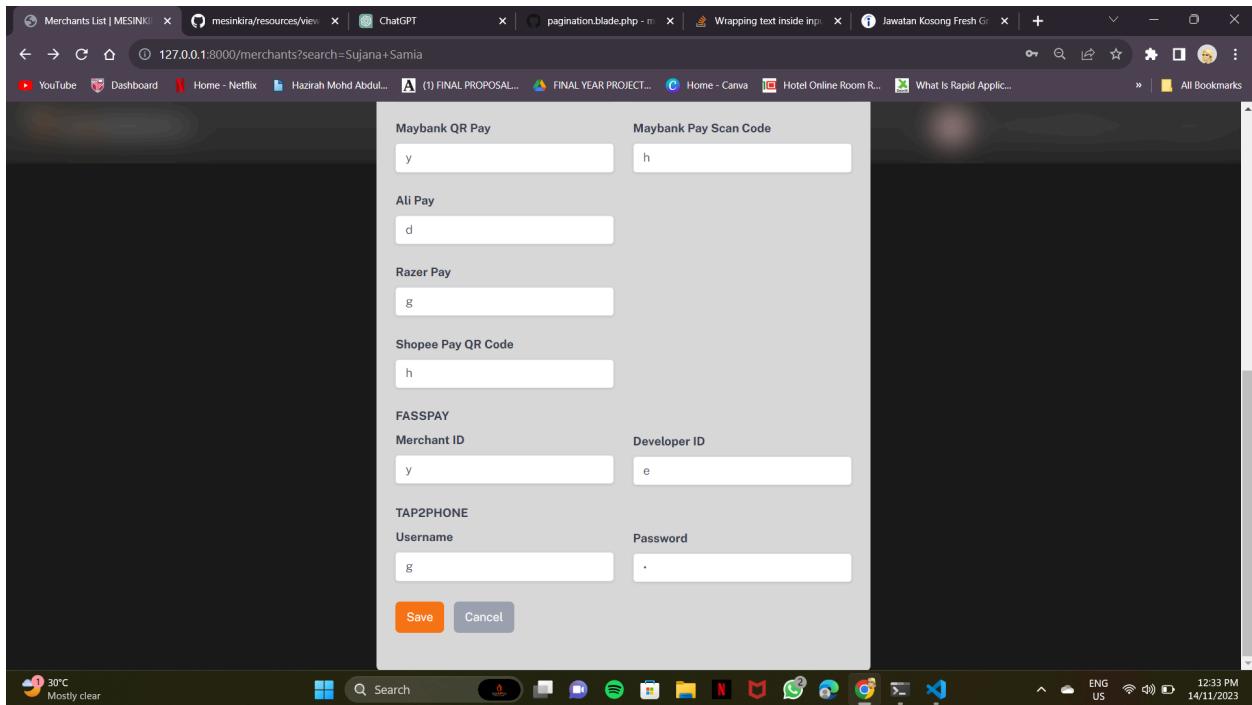


Figure 3.16 Payment Config

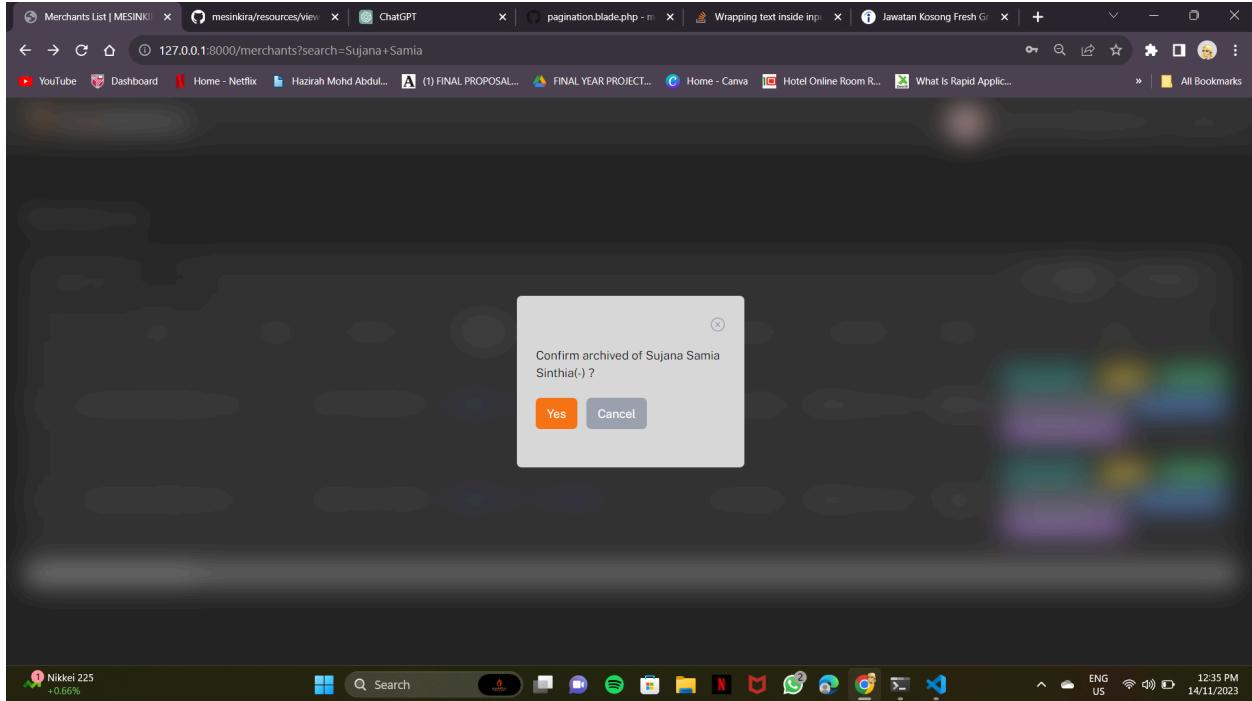


Figure 3.17 Archive Action

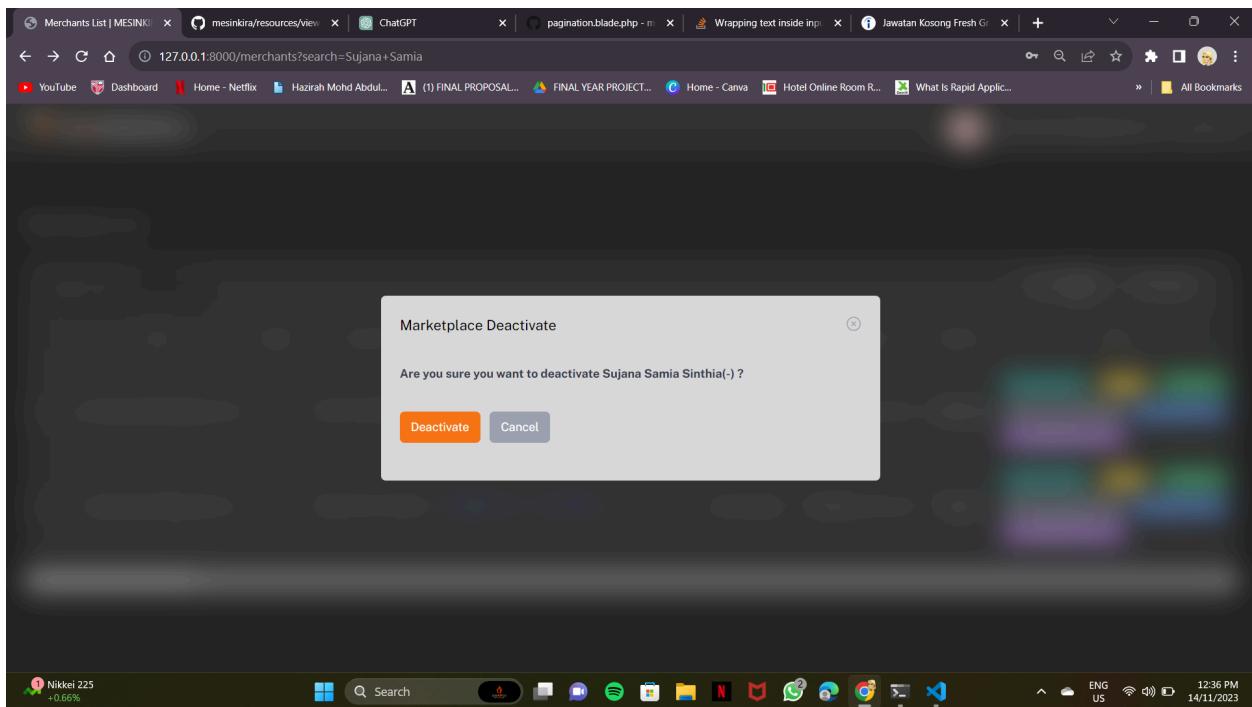


Figure 3.18 Marketplace Deactivation

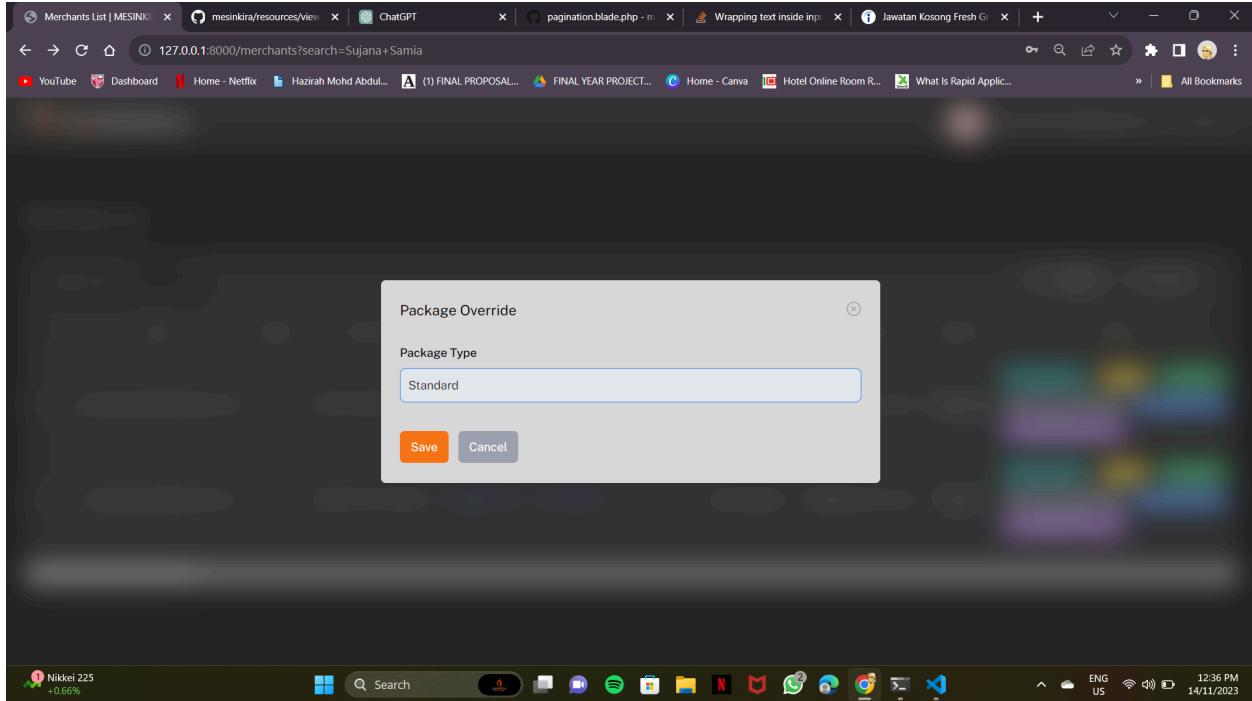


Figure 3.19 Package Type Select

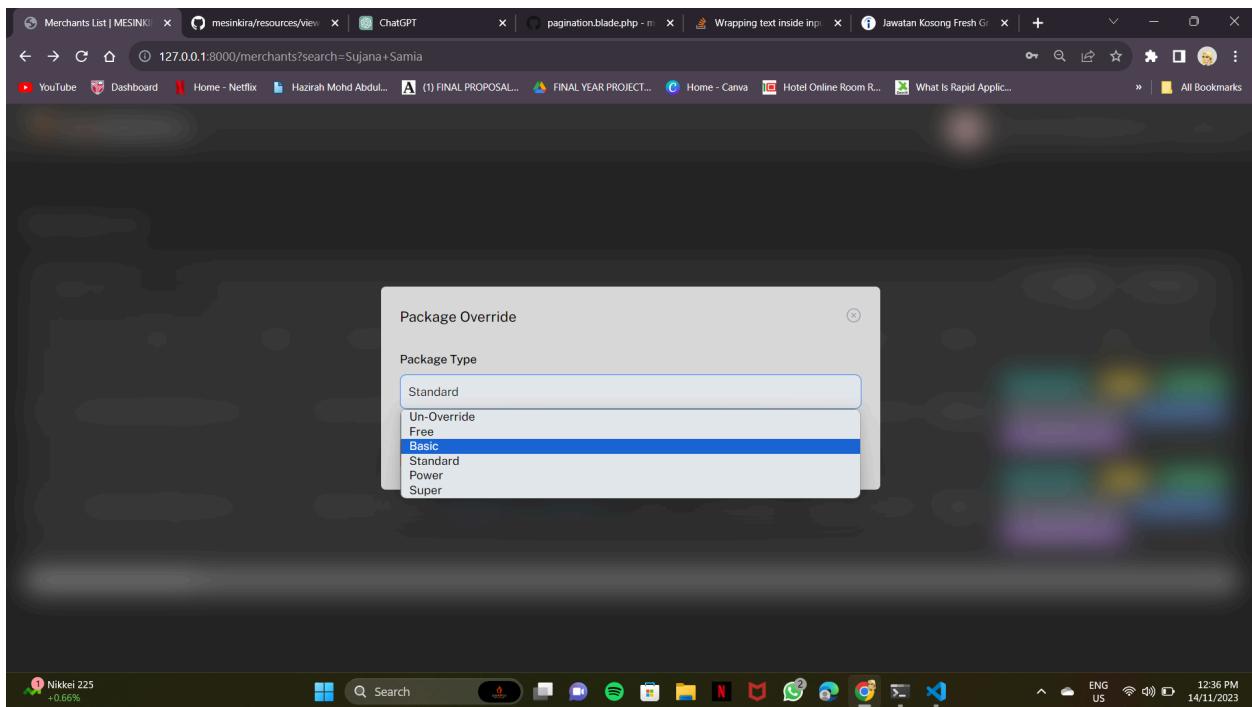


Figure 3.20 Package Type Select

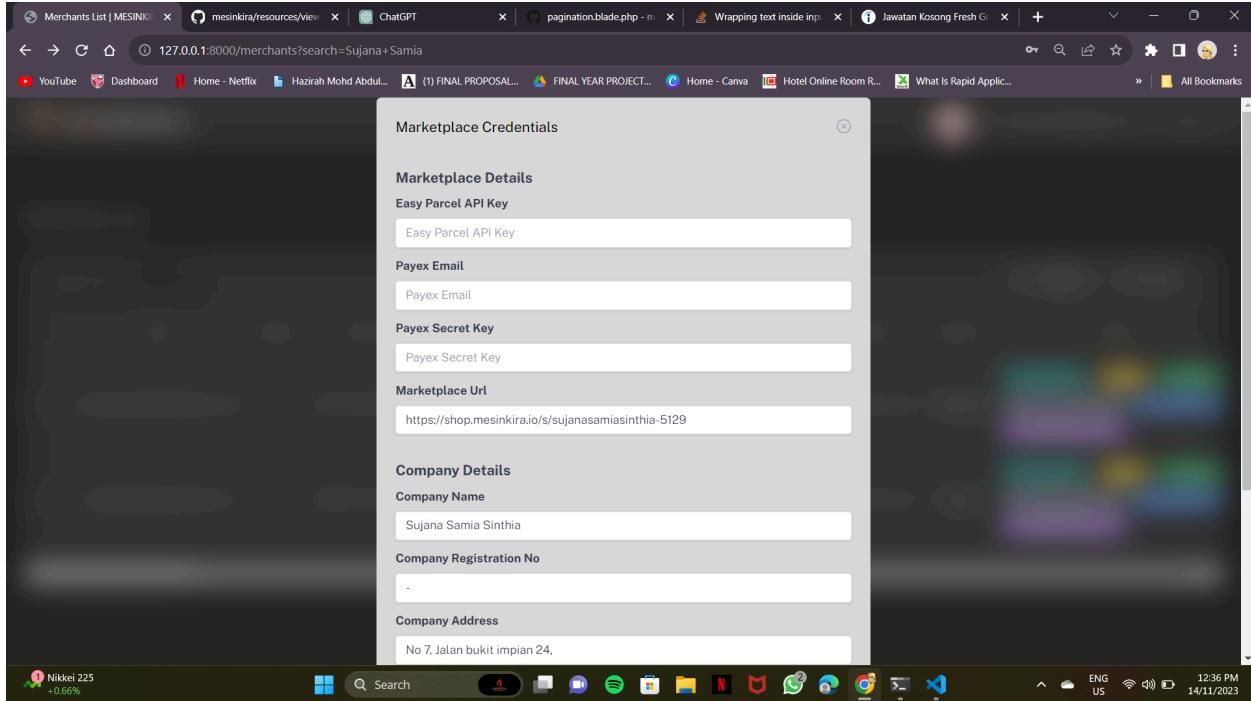


Figure 3.21 Marketplace Activation

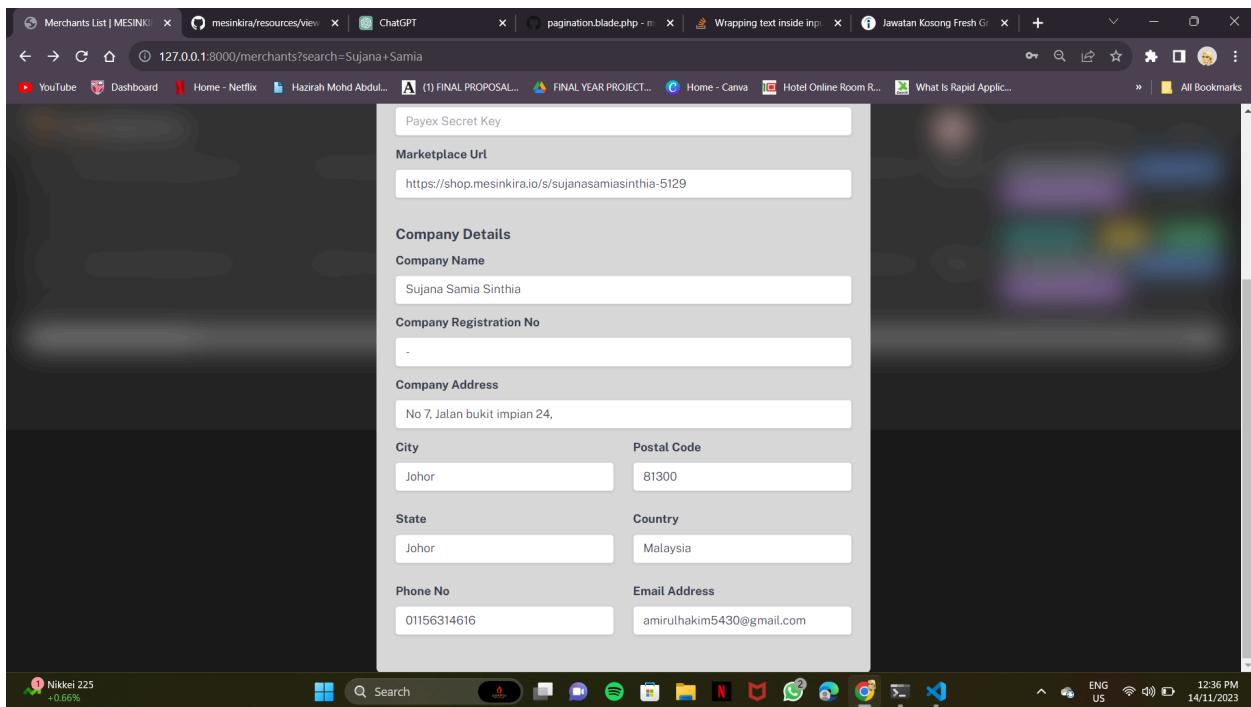


Figure 3.22 Marketplace Activation

The screenshot shows a web browser window with multiple tabs open. The active tab is 'Merchants List | MESINKIRA'. The URL in the address bar is `127.0.0.1:8000/merchants?search=Sujana+Samia`. The page displays a table of merchant data with the following columns: #, COMPANY NAME, EMAIL, PHONE, CREATED AT, PAYMENT APPLICATION STATUS, ONLINE PAYMENT APPLICATION STATUS, PAYMENT CONFIG COMPLETED, AGENT NAME, AGENT EMAIL, and PACKAGE. Two rows of data are visible:

#	COMPANY NAME	EMAIL	PHONE	CREATED AT	PAYMENT APPLICATION STATUS	ONLINE PAYMENT APPLICATION STATUS	PAYMENT CONFIG COMPLETED	AGENT NAME	AGENT EMAIL	PACKAGE
1	Sujana Samia Sintia(-)	amirulhakim5430@gmail.com	--	2023-09-03 16:13:31	SUBMITTED	PROBLEM	<input checked="" type="checkbox"/>	InternalAgent	A000@mesinkira.io	Override Standard
2	Sujana Samia Sintia(-)	sujanasamia12@gmail.com	--	2023-10-31 17:35:05	SUBMITTED	APPROVED	<input checked="" type="checkbox"/>	InternalAgent	A000@mesinkira.io	Override Basic

On the right side of the table, there are three small buttons: 'Payment' (green), 'Deactivate' (purple), and 'Mark' (blue). The status bar at the bottom shows weather information (30°C, Mostly clear), system icons, and the date/time (14/11/2023, 12:32 PM).

Figure 3.23 Search Filter

The screenshot shows a web browser window with multiple tabs open. The active tab is 'Merchants List | MESINKIRA'. The URL in the address bar is `127.0.0.1:8000/merchants?search=demo+com`. The page displays a table of merchant data with the same columns as Figure 3.23. One row of data is visible:

#	COMPANY NAME	EMAIL	PHONE	CREATED AT	PAYMENT APPLICATION STATUS	ONLINE PAYMENT APPLICATION STATUS	PAYMENT CONFIG COMPLETED	AGENT NAME	AGENT EMAIL	PACKAGE
1	Demo Company Friday(101010-10-101099)	demo@friday.com	--	2019-11-28 15:17:38	APPROVED	PENDING FOR ONLINE FORM	<input checked="" type="checkbox"/>	--	--	Override Standard

On the right side of the table, there is a dropdown menu for 'Payment Application Status' with options: ALL, Package, ALL, Agent, ALL, and Marketplace Info. The status bar at the bottom shows weather information (30°C, Mostly cloudy), system icons, and the date/time (21/12/2023, 12:49 PM).

Figure 3.24 Filter

The screenshot shows a dark-themed web application interface titled "Merchants List | MESINKIRA". At the top right, there is a user profile icon and the email "amirulhakim5430@gmail.com". Below the header, the title "Merchants List" is displayed. A search bar contains the text "demo com". To the right of the search bar are two buttons: "Excel" and "Filter". A dropdown menu titled "Payment Application Status" is open, showing the following options: ALL, NEW, SUBMITTED, IN_PROGRESS, PENDING, PROBLEM, APPROVED. The "NEW" option is highlighted with a blue background. The main content area displays a table with one row of data. The columns are: #, COMPANY NAME, EMAIL, PHONE, CREATED AT, PAYMENT APPLICATION STATUS, ONLINE PAYMENT APPLICATION STATUS, PAYMENT CONFIG COMPLETED, AGENT NAME, AGENT EMAIL, and PACKAGE. The first row shows: 1, Demo Company Friday(101010-10-101099), demo@friday.com, --, 2019-11-28 15:17:38, APPROVED, PENDING FOR ONLINE FORM, (with a circular progress icon), --, --, Override Standard. The status "PENDING FOR ONLINE FORM" is highlighted in blue. The bottom of the screen shows a Windows taskbar with various icons and system status information.

Figure 3.25 Filter

This screenshot is identical to Figure 3.25, showing the same merchant list interface and the "Payment Application Status" filter dropdown. The "NEW" option is still highlighted. The table data and system status at the bottom of the screen are also the same.

Figure 3.26 Filter

- The merchant list table needs to be fixed on
 - Pdf text color

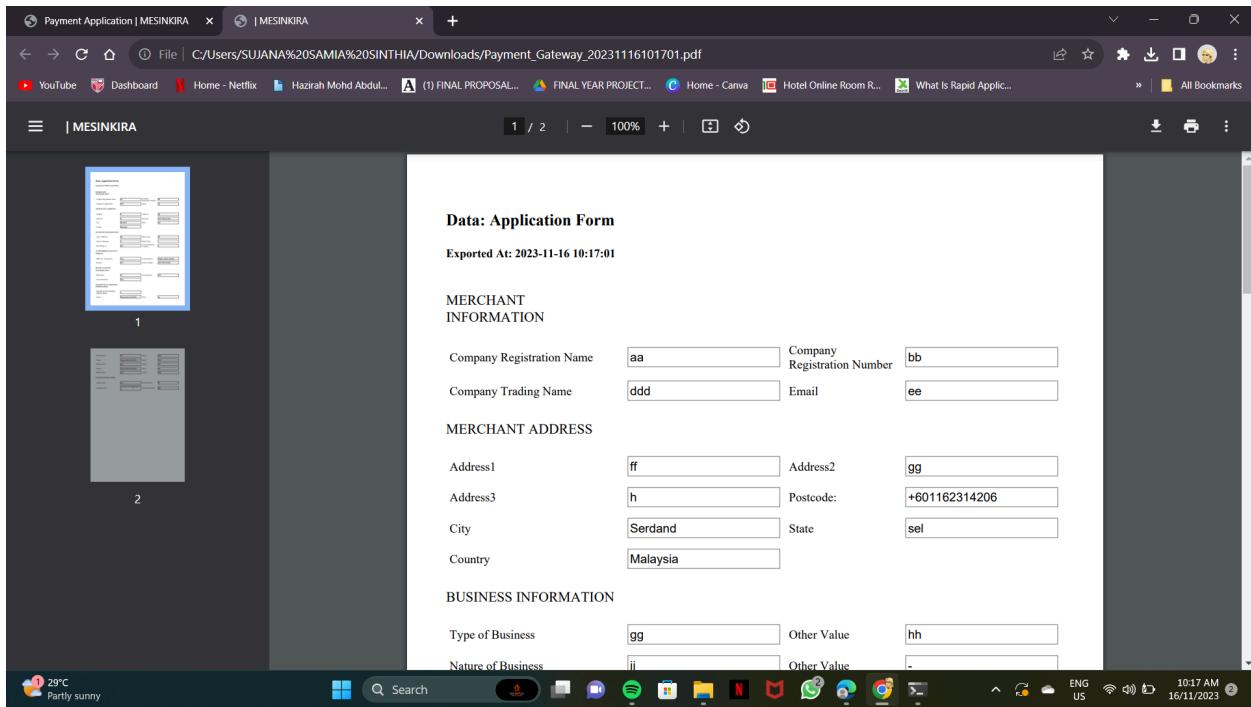


Figure 3.27 Payment Gateway Pdf Export

- Legal notes form enhance

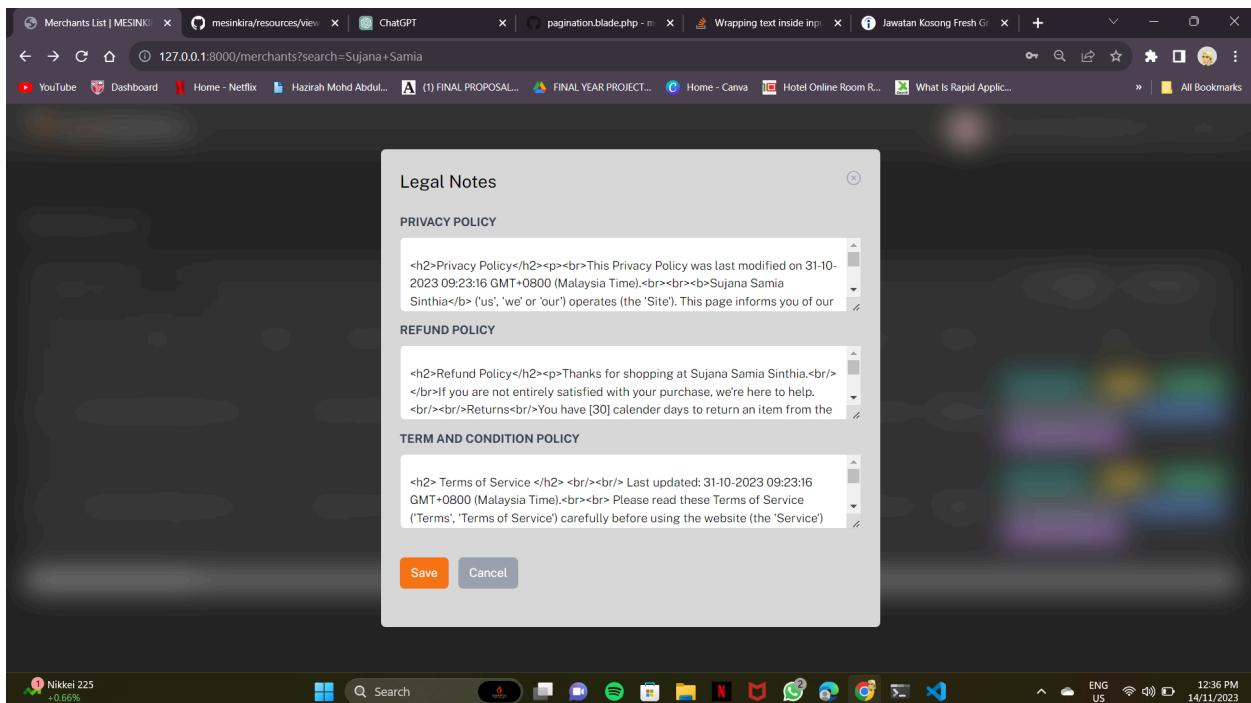


Figure 3.28 Legal Note

- Pagination toggle button
- Shipping activation
- Excel Export

The screenshot shows a Microsoft Excel spreadsheet titled "Merchant_List_20231116101651 - Excel". The table structure is as follows:

Company Name (Registration Number)	Email	Phone	Created At	Payment Application Status	Online Payment Application Status	Payment Config Completed	Agent Name	Agent Email	Role
1									
2									
3 Sujana Samia Sinthia(-)	sujanasamia12@gmail.com	n/a	2023 10 31 17:35:05	SUBMITTED	APPROVED	/	InternalAgent	A000@mesinkira.io	Owner
4 Sujana Samia Sinthia(-)	amirulhakim5430@gmail.com	n/a	2023 09 03 16:13:31	SUBMITTED	PROBLEM	/	InternalAgent	A000@mesinkira.io	Owner
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
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21									
22									
23									
24									
25									
26									
27									

Figure 3.29 Excel Export

- Merchant-list-table need to enhanced on
- Adding user-table-list

#	USER NAME	EMAIL	PHONE	CREATED AT	EMAIL CONFIRMED	ROLE	ACTION
1	Demo Friday Admin MK2	demo@friday.com	011-1111112	2019-11-28 15:17:38	✓	admin	<button>Resend Email</button>
2	POS User	pos@friday.com [DELETED]	--	2019-11-28 16:32:40	✗	pos	<button>Resend Email</button>
3	Sync -	sync@friday.com [DELETED]	--	2019-12-06 22:53:36	✓	admin	<button>Resend Email</button>
4	Janet Smith	beepbeep@mesinkira.io [DELETED]	--	2021-03-17 14:45:29	✓	admin	<button>Resend Email</button>
5	Sam Jones	testing@demo.com [DELETED]	--	2021-03-17 14:51:12	✓	admin	<button>Resend Email</button>
6	Test Lain	tester@demo.com [DELETED]	--	2021-03-17 15:06:46	✓	admin	<button>Resend Email</button>
7	Myrr Gojes	demo@mesinkira.io [DELETED]	--	2021-04-01 10:28:35	✓	account	<button>Resend Email</button>
8	fathin hilda	hilda@demo.com [DELETED]	--	2021-04-06 10:34:32	✓	pos	<button>Resend Email</button>
9	Test 123	testing@demo.io [DELETED]	--	2021-04-09 16:33:55	✓	pos	<button>Resend Email</button>

Figure 3.30 User list table

- Trial balance, balance sheet
- Merchant-list-table need to be enhanced on:
 - User list table
 - User resend email

Resend Email Confirmation

Are you sure want to resend email?

Figure 3.31 Resend Email Confirmation

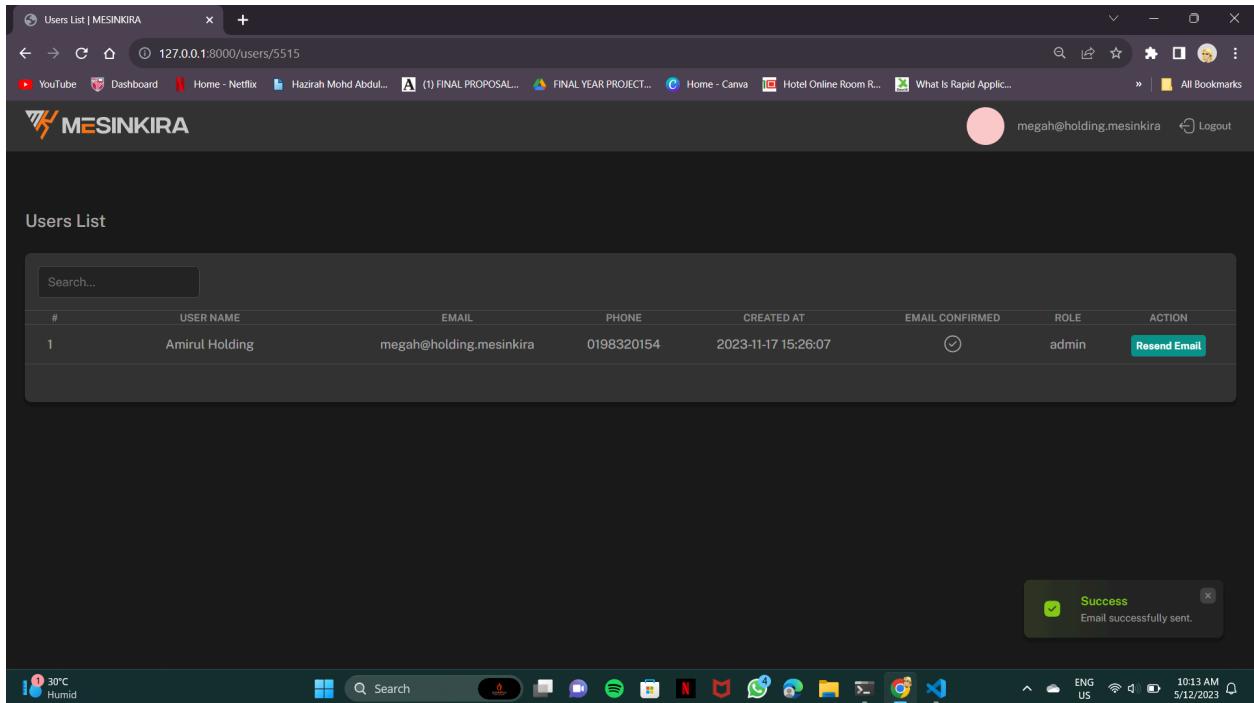


Figure 3.32 Notify email sent

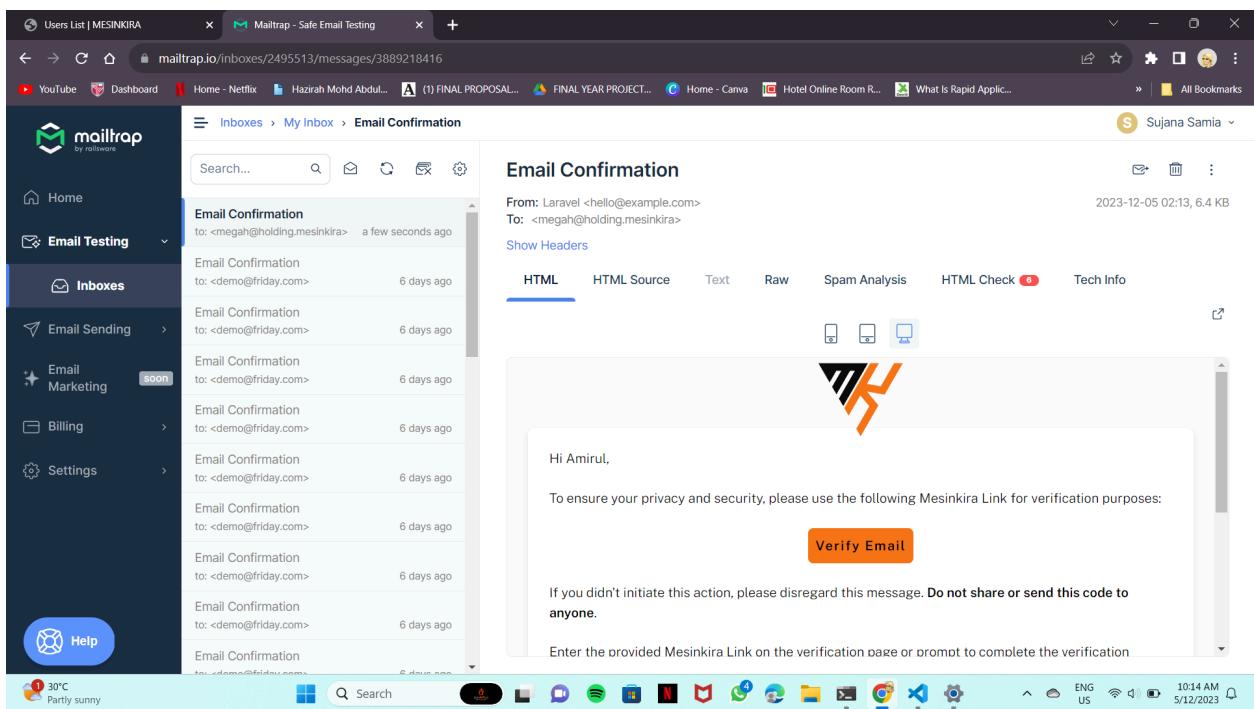


Figure 3.33 Email Confirmation

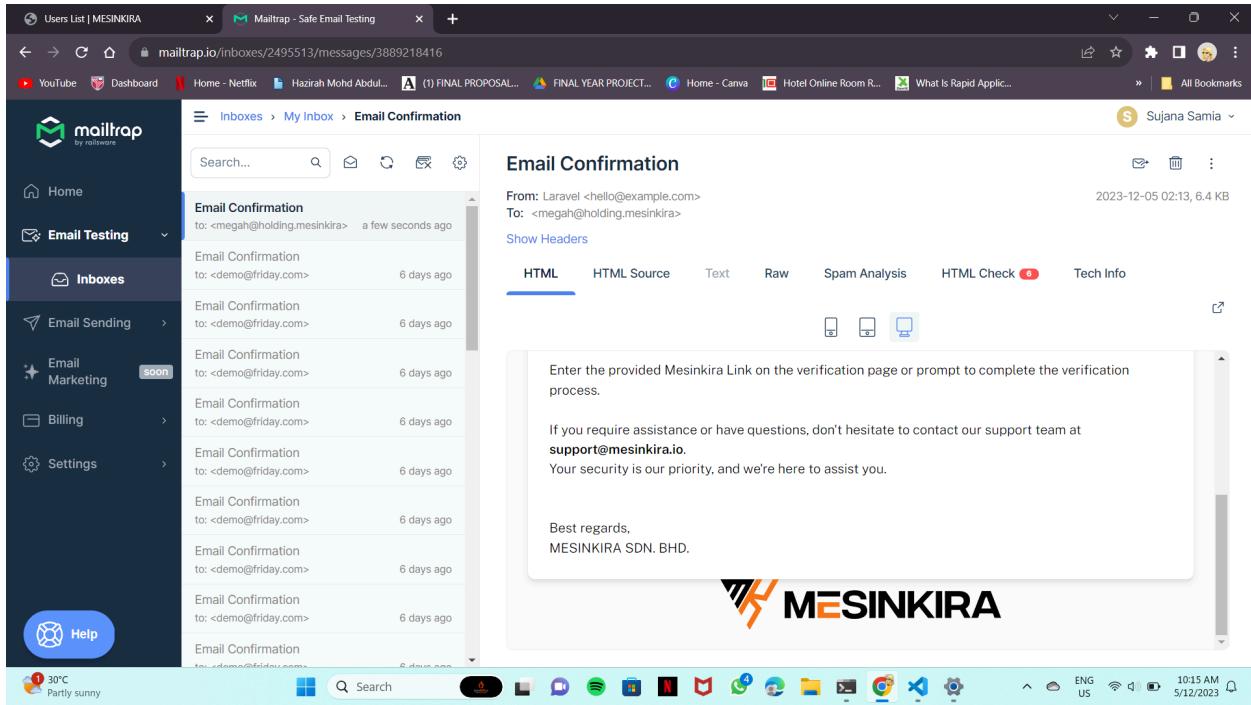


Figure 3.34 Email Confirmation

- User filter
- User-list-table export to excel file
- Balance sheet, trial balance, profit and loss need to show for a merchant view or login.

3.5 Tasks (December)

- Fixing the UI for profit and loss of the merchant list table.
- Fixing the UI for the balance-sheet of the merchant list table.
- Fixing the calculation and testing for profit and loss and balance sheet of the merchant list table with the finance department of Mesinkira

Balance Sheet

Asset

Current Asset

Cash	9400
Bank	30800
Inventory	260
Total Current Asset	40460

Non Current Asset

Computer	2300
Accumulated Depreciation on Computers	-460
Total Non Current Asset	1840

11:50 AM 14/12/2023

Figure 3.35 Balance Sheet

Non Current Asset

Computer	2300
Accumulated Depreciation on Computers	-460
Total Non Current Asset	1840

Total Asset 42300

Liabilities

Current Liabilities

Payables	2300
Amount Owed To Owner	35400
Total Current Liabilities	37700

Non Current Liabilities

Total Non Current Liabilities	0
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Figure 3.36 Balance Sheet

Balance Sheet | MESINKIRA

127.0.0.1:8000/balance-sheet

MESINKIRA

Current Liabilities

Payables	2300
Amount Owed To Owner	35400
Total Current Liabilities	37700

Non Current Liabilities

Total Non Current Liabilities	0
Total Liabilities	37700
Current Year Earning	4600
Retained Earning	0
Share Capital	0
Total Liability and Equity	42300

29°C Mostly cloudy

Search

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Figure 3.37 Balance Sheet

Profit & Loss | MESINKIRA

127.0.0.1:8000/profit-loss

MESINKIRA

Profit & Loss

Profit & Loss Statement

Sales Discount	400
Sales	5600
Total Net Sales	5200

Cost of Good Sold/ Cost of Sale

Product/Service Cost	140
Total Cost Of Good	140

Gross Profit

	5060
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Figure 3.38 Profit and Loss

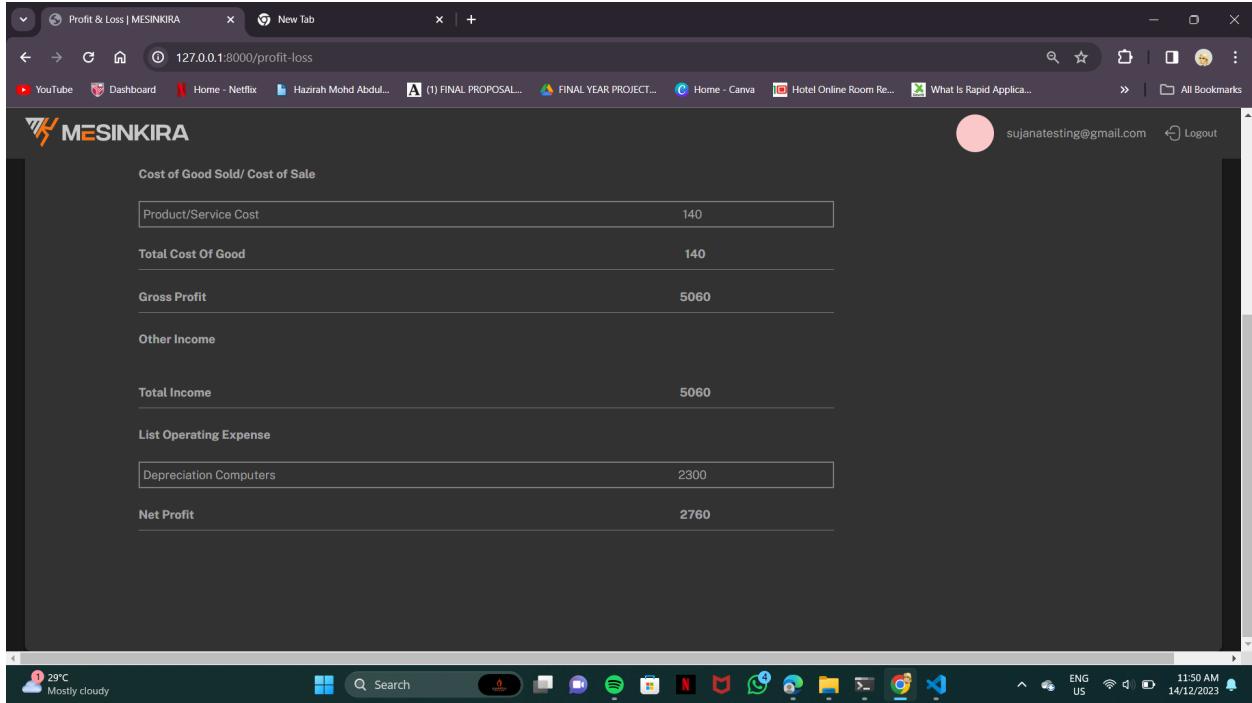


Figure 3.39 Profit and Loss

3.6 Tasks (January)

- In the retrofit Mesinkira fixed the UI for super admin and merchant view.
- Fixing the resend email confirmation for user list on merchant-list-table.
- Fixing the filter button for trial balance, profit and loss, balance-sheet.
- Fixing the calculation and testing for profit and loss, trial balance and balance sheet of the retrofit Mesinkira with the finance department of Mesinkira.
- Fixing the pdf export for online and offline payment gateway applications in the retrofit Mesinkira.

3.7 Gantt Chart

Below gantt chart shows the task duration performed during the whole industrial training period. This is the overall timeline of the whole internship which starts on 1th August 2023 and ends on 15th January 2024.

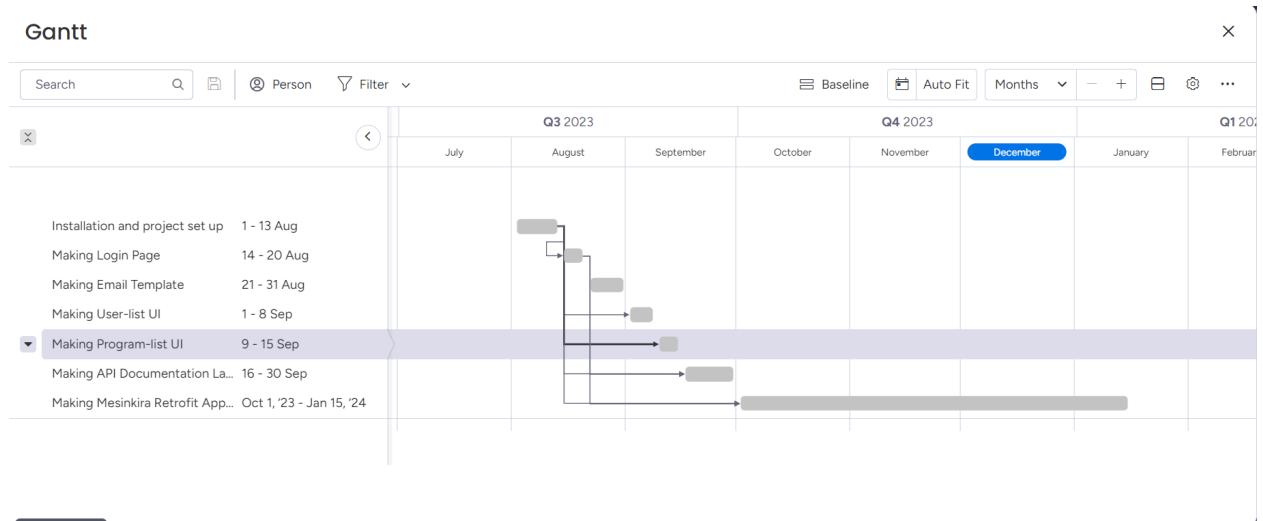


Figure 3.40 Gantt Chart

Chapter 4 : Conclusion

4.1 About Training Program

The training program was conducted at Mesinkira Sdn. Bhd. has been a comprehensive and immersive experience for me. The program was designed with the aim of providing practical insights into the industrial landscape, offering a bridge between academic knowledge and real-world applications. I was exposed to a variety of tasks and challenges, enhancing my understanding of industry practices.

The training program included interactive sessions with industry experts. This approach allowed me to gain a holistic view of the company's operations and develop a deeper appreciation for the intricacies of my respective field in software engineering. Also it helps me to increase my knowledge and do work as a professional web developer. Everyone in the company is very cooperative and helps me in many ways. Every time they guided me and showed me how to solve any problem. I got a lot of love and affection from this company.

4.2 Technical Improvements

Throughout the training program, I had the opportunity to acquire and enhance technical skills in web development. Practical applications of theoretical knowledge were

emphasized, enabling me to become adept in utilizing the latest tools and technologies within the industry.

The technical improvements observed among me include using terminal by basic command ,using tailwind css, using blade icon, using volt function in laravel framework, using Laravel/folio, using docker server, using tailwind css,using volt package,using arch distro command, laravel set up, project clone from github,using Alpine.js and so on. These skills not only contribute to my personal and professional development but also position me as valuable assets for Mesinkira Sdn. Bhd. and the industry at large.

4.3 Skill Improvements

Beyond technical expertise, the training program also focused on developing a range of soft skills essential for professional success. I got more skills in communication, teamwork, problem-solving, and adaptability, among other key skills. The goal was to equip me with a well-rounded skill set that goes beyond the technical aspects of my roles.

The observed improvements in soft skills in me have been noteworthy. Effective communication, collaboration, and adaptability were demonstrated in various team projects and simulations. These skills are crucial for navigating the dynamic and fast-paced environment of Mesinkira Sdn Bhd.

4.4 Overall Conclusion

In conclusion, the industrial training program at Mesinkira Sdn Bhd has proven to be a valuable and enriching experience for me. The integration of theoretical knowledge with practical applications has bridged the gap between academia and industry. The technical and soft skills acquired during the training period not only enhance the employability of me but also contribute to the overall growth and success of Mesinkira Sdn Bhd.

As I transition from the training program to the next phase of my career, it is expected that the knowledge and skills gained will continue to have a positive impact on my professional journey. Mesinkira Sdn Bhd remains committed to nurturing and developing talent, and this training program stands as a testament to that commitment.

The success of the program can be attributed to the collaborative efforts of mine, trainers, and the support of Mesinkira Sdn Bhd. As the company looks towards the

future, the insights gained from this training program will undoubtedly contribute to ongoing improvements in both training methodologies and the overall development of future professionals in the industry.

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