
Medicine Sales System At Market 3 Mini Medical Pharmacy Web Based

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ABSTRACT

Market 3 Mini Medical Pharmacy is a business that offers medication and medical device sales services. Currently, the pharmacy operates with a conventional system, requiring customers to visit in person for transactions. By implementing a web-based sales system, Mini Medical Pharmacy aims to provide greater convenience, especially for purchasing the necessary medications. The development of this system is carried out using Visual Studio Code as the development tool, with PHP as the programming language and MySQL as the database. The system development follows the Agile Development methodology, with data collection methods including interviews, observation, and literature review.

Keywords: Sales, PHP, MySQL, Agile Development.

INTRODUCTION

The very rapid development of technology can help companies increase sales of their products through social media and online stores, as is the case with drug sales.

Market 3 Mini Medical Pharmacy is a business entity that provides drug sales services. So far, the sales conditions for mini medical pharmacies are still conventional, which means that every buyer has to visit the pharmacy to make a transaction.

By using this web-based sales system, we hope to help the problems that exist at the Mini Medical Pharmacy, namely being able to provide a lot of convenience in carrying out activities, especially in purchasing the medicines needed.

LITERATURE REVIEW

Web-Based Systems

Web-based systems are applications that are accessed through a web browser, utilizing the internet for both data access and storage. These systems offer the advantage of being accessible from any device with internet connectivity, making them particularly suitable for businesses seeking to provide services remotely. In the context of pharmacy sales, web-based systems allow customers to browse products, place orders, and make payments without visiting the physical store (Afiifah, 2022).

The integration of web technologies into traditional businesses has proven to enhance user convenience and operational efficiency. According to Puteri (2018), the development of a web-based sales system provides several benefits, including the ability to track inventory in real-time, streamline order processing, and reduce human error. These advancements in technology are especially relevant for the pharmaceutical industry, where timely and accurate delivery of products is critical.

Information Systems in Organizations

An information system in an organization is fundamental for managing data related to transactions, inventory, customer relations, and other critical business processes. As Bahar (2019) outlines, the key functions of information systems include data collection, storage, and distribution to aid decision-making and operational efficiency. In the case of pharmacies, an effective information system can facilitate smooth communication between various stakeholders such as customers, suppliers, and pharmacy staff.

A well-designed information system can significantly improve customer service and operational efficiency by automating repetitive tasks such as order processing and inventory management. For example, systems like those outlined by Nasution (2016) can assist in tracking medication sales and stock levels,

enabling pharmacy management to make data-driven decisions that ensure product availability and prevent stockouts.

Agile Development in System Design

Agile Development is a flexible and iterative approach to software development, widely used in system design due to its adaptability and focus on delivering functional software at frequent intervals. As emphasized by Damayanti et al. (2022), Agile methodologies are particularly suited for web-based applications, as they allow continuous feedback from end-users and enable rapid adjustments to system design.

This methodology aligns well with the needs of the pharmacy industry, where requirements may evolve as customer feedback and market conditions change. The iterative nature of Agile Development ensures that systems remain aligned with user needs and technological advancements, as seen in the ongoing improvements to the Market 3 Mini Medical Pharmacy system. The use of Agile ensures that the development team can continuously refine the user interface and functionality to enhance the overall user experience, especially for online customers who may have vying levels of technological proficiency.

RESEARCH METHODOLOGY

The system development method chosen in the research method is the Agile Development Method. Where the process starts from the application design stage, which starts from the appearance of the application and preparing the database structure, then designing the interface between the user and the application so that the user can easily use the application, then into the development stage to implement the design features that have been created, and the application that has been created. made in the test by focusing on program testing and ensuring the quality of the system to carry out final trials and introduce the application to users. The system testing method used is black box testing. Blackbox testing is testing software to find out whether the software and applications operate properly and optimally or not.

ANALYSIS AND RESULT

System Analysis

The researcher carried out a system analysis and collected the data needed to describe the problems that emerged such as categories, baskets and order lists for Market 3 Mini Medical Pharmacy and assessed the needs of system users to research problem solutions. The main points of the analysis are a general description of the old system and a description of the proposed system.

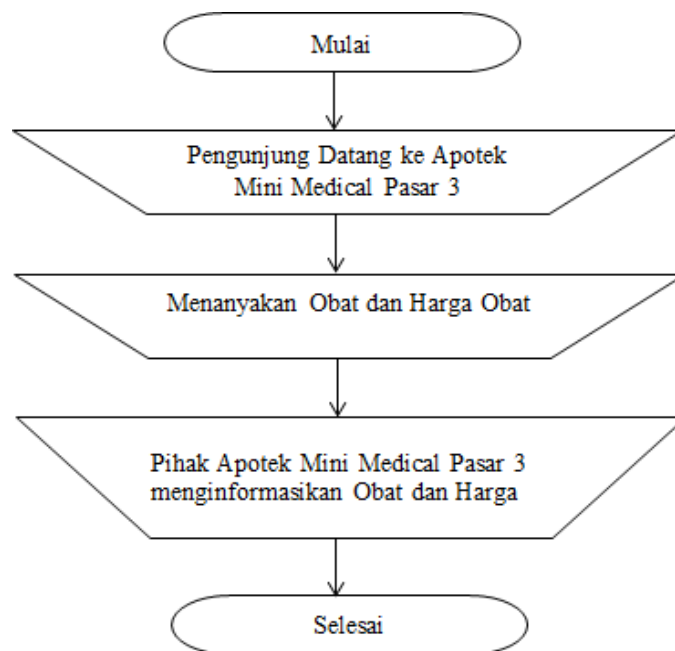


Figure 1. The system currently running at the Market 3 Mini Medical Pharmacy

Researchers developed a better system by building an online sales system. The system designed is web-based. The suggestion system includes additional features such as product categories, baskets, and order lists. With an online ordering system, customers can easily order medicines online without having to go to the pharmacy directly. The basket and order list features function to find out what orders you want to order and how to pay for the medicines ordered.

System Design

Website design at Mini Medical Market 3 Pharmacy uses use case diagram modeling. The use case diagram will show 2 actors carrying out their respective activities, along with an explanation of the system modeling, namely:

1. The admin logs in to be able to add, edit and delete admin data such as managing orders, managing the pharmacy and managing customers.
2. Visitors visit the Market 3 Mini Medical Pharmacy website page to view medicinal products and drug prices, place orders, and make payments at Market 3 Mini Medical Pharmacy.

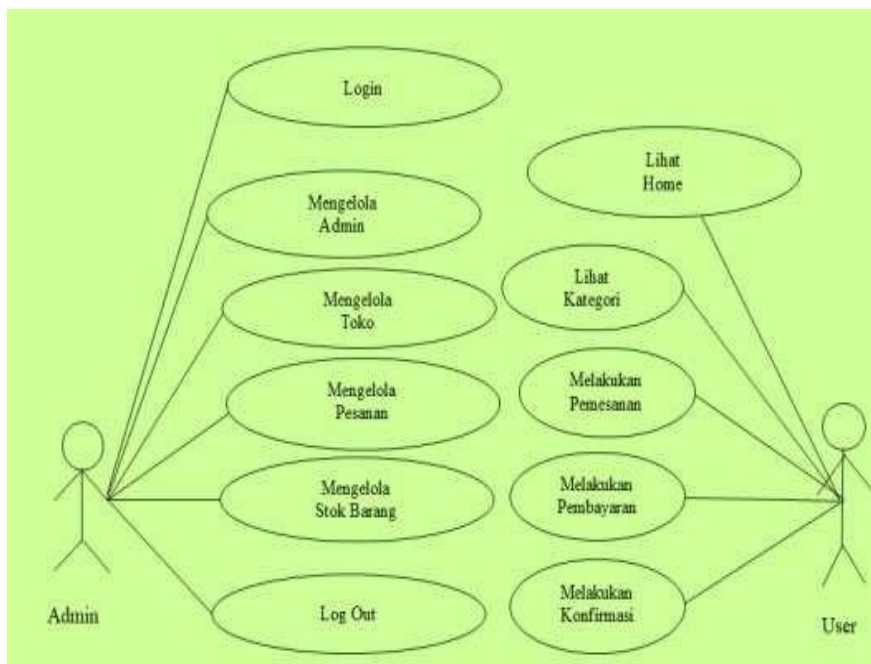


Figure 2. Use Case Diagram for the Market 3 Mini Medical Pharmacy Website

Database Design

Researchers develop a website using a MySQL database. The database is called "web" and consists of seven tables, namely the cart table, order details, categories, confirmation table, login table, payment table, and product table. The structure of each table is as follows:

Interface Design

1. Admin Login Page Design

The login page is the initial page for the user (admin) to log in first by filling in the email and password before making further input.

2. Admin Dashboard Page Design

The admin dashboard page design will display the results of data processing from the system, such as managing menus, managing transactions or orders, managing reservations and managing about us.

3. Designing Website Visitor Pages

System Implementation

1. Admin Login Page

The login page is the first page of the user (admin). On the login page, the user is asked to input a

username and password to be able to access the following pages.



Figure 3. Admin login system implementation page

- Admin home page, displays the home page, manage orders, manage shops, manage customers, manage stock.

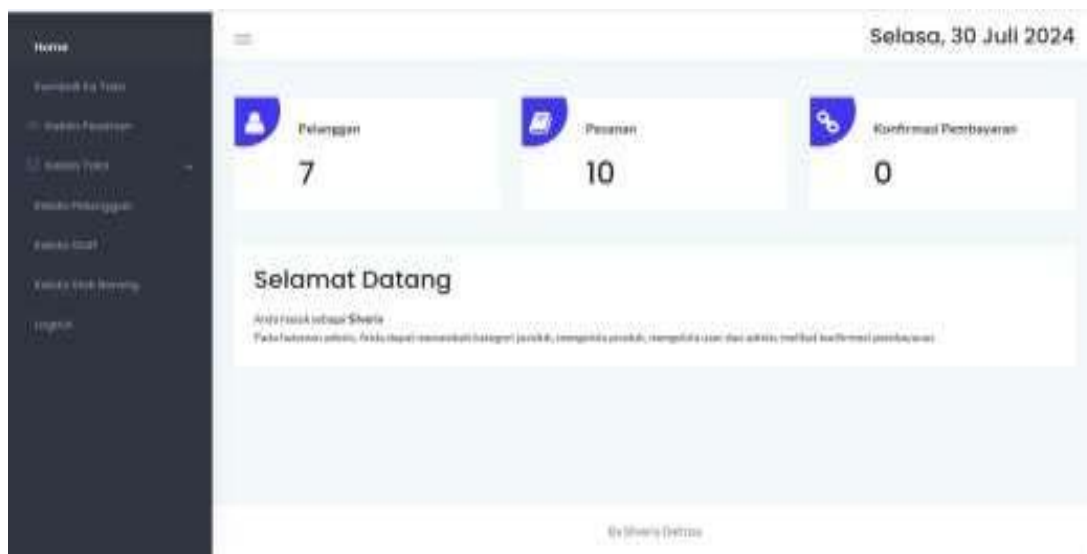


Figure 4. Implementation of the admin dashboard page system

Website Visitor System Implementation Page

- Implementation of the home page system
On the home page implementation, visitors can see and read information about Market 3 Mini Medical Pharmacy.
- Implementation of a category page system
On the category page, customers can see all drug categories in the Mini Medical Pharmacy3



Figure 5 Category Page System

CONCLUSION

The implementation of a web-based sales system in pharmacies is an essential step toward increasing operational efficiency and improving customer satisfaction. The literature supports the adoption of Agile Development to ensure that systems can be rapidly adjusted and optimized in response to user feedback and technological advancements. As the healthcare and pharmaceutical industries continue to embrace digital transformation, the integration of information systems will be a key factor in delivering more personalized and efficient services to consumers (Damayanti et al., 2022; Nasution, 2016).

1. With this system, customers can easily buy medicines that are available online without having to come directly to the pharmacy.
2. This web-based system can increase the efficiency of drug sales and save time. What was previously done manually can now be done online.

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