

Information System for Operational Goods Management at the Career Guidance and Entrepreneurship Center Malikussaleh University

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ABSTRACT

Managing operational goods manually leads to slow and inefficient work performance, hence the design and implementation of an information system that can efficiently manage operational goods needs to be done in a structured manner and work optimally. Analysis of operational goods needs is conducted through observation and interviews with relevant parties to discuss the problems faced and identify the required features. Some key features implemented in this system include complaint management for operational goods needs, which can be managed and utilized for effective procurement or requests for goods according to requirements. This system is designed using the PHP programming language with the Codeigniter framework and MySQL database for database management. With this system in place, it is expected to assist in the more effective and systematic management of operational goods needs at the Career Guidance and Entrepreneurship Center of Malikussaleh University

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I. Introduction

The designed and implemented information system can facilitate the management of needs and data storage placement, resulting in accurate and precise information. Having an accurate and precise information system can reduce unwanted errors, thus improving more efficient performance and operational speed in an institution. In this system used for managing operational goods data, it is still conventional. Therefore, at the Career Guidance and Entrepreneurship Center of Malikussaleh University, replacing or improving the previously used information system that utilized Microsoft Excel and data storage media is necessary. This can support the performance of the office staff at the Career Guidance and Entrepreneurship Center of Malikussaleh University, which has been hindered in all processes of their work, hence the need for a computerized system development as a tool for the employees to carry out their work.

In today's digital era, the process of managing operational goods needs can be addressed by designing an information system that can facilitate the office staff at the Career Guidance and Entrepreneurship Center of Malikussaleh University in recording needs and effectively managing operational goods. Therefore, in this study, an Information System for Managing Operational Goods Needs at the Career Guidance and Entrepreneurship Center of Malikussaleh University was designed and implemented. With the results of this research and system, it is expected to assist the office staff at the Career Guidance and Entrepreneurship Center in recording and managing needed goods effectively and flexibly according to requirements.



II. Method

In the process of research and development of information systems, several methods are employed to generate optimal analysis results with the aim of being described, developed, and demonstrated according to the design and implementation of the information system to be applied. The methods used are related to the observation process, literature study, and interviews.

From the process of methodological stages used, the following analysis results were obtained:

A. Analysis of the Old System

From direct observation and analysis of the old system, this research attempts to design a solution to the problem of managing operational goods needs at the Career Guidance and Entrepreneurship Center of Malikussaleh University. During field observations, the author observed how staff manage operational goods data using Microsoft Excel and communicate electronically. This can lead to misunderstandings due to difficulties in explaining about needs. Additionally, the old system is still ineffective, slowing down the performance of staff in managing operational goods needs.

B. Analysis of the Proposed System

At the Career Guidance and Entrepreneurship Center, there is a high demand for stationery and administrative items needed for office purposes. With a shortage of these items, swift action is needed to prevent staff from being hindered in processing all office needs, especially stationery for operational needs. After analyzing the old system, the author attempts to address the issue of managing goods needs. This research will design and implement a Website-based Information System for Managing Operational Goods Needs at the Career Guidance and Entrepreneurship Center of Malikussaleh University. With this system in place, it is hoped to facilitate and expedite the process of managing operational goods needs effectively and systematically.

C. Analysis of System Design

System design is the stage following analysis in the system development life cycle. It involves defining functional requirements, preparing for implementation design, and describing how a system is formed (including visualization, planning, and sketching limitations), including configuring software and hardware components of a system.

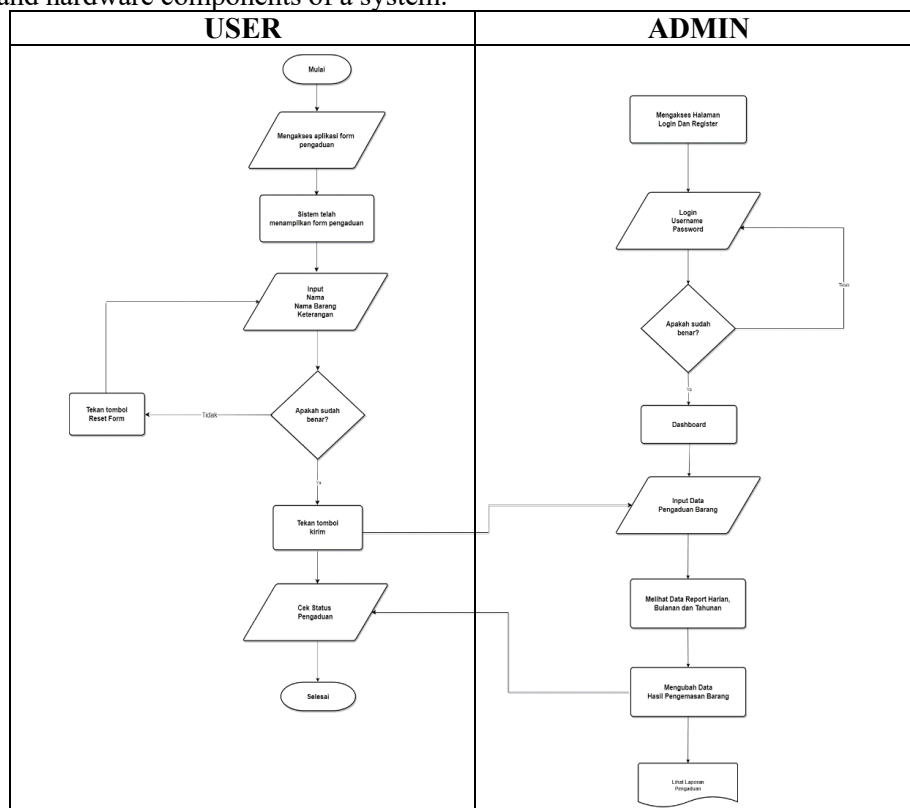


Fig. 1. System Schematic Design

In this system scheme, users have the same access level as administrators to access the information system's landing page and can fill out the goods requirement complaint form without logging in. As users, they can also check the status of their complaints. Administrators have access to log in by entering their registered username and password. After logging in, administrators can view the complaints submitted by users. Once the goods complaint has been processed, administrators can update the packaging status information for the user's needs.

III. Results and Discussion

System design involves specific steps. After the system is designed in the system scheme, the next step is to implement it in the program design process according to the scheme so that it can be implemented and evaluated in its use.

Here is the display of the design and implementation results of the Operational Goods Needs Management Information System at the Career Guidance and Entrepreneurship Center of Malikussaleh University:

1. Landing Page

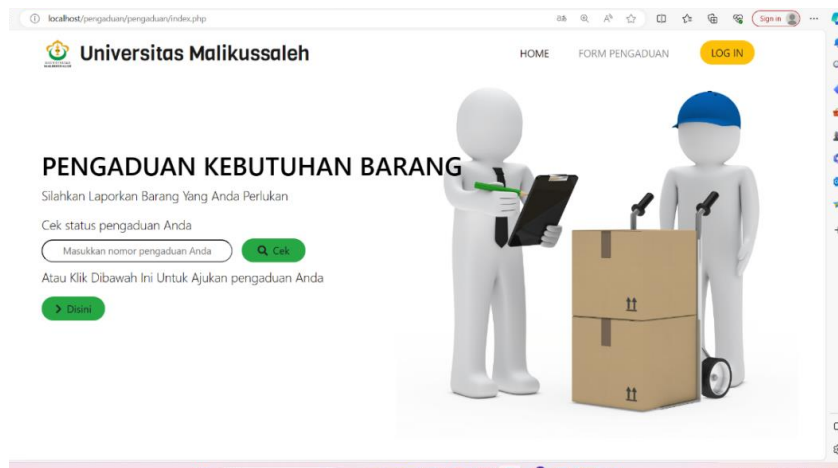


Fig. 2. Landing Page Display

On this page, users will be directed to fill out the required goods complaint form so that it can be processed by the admin. Then, the requested items will be inputted by the admin.

2. Complaint Form

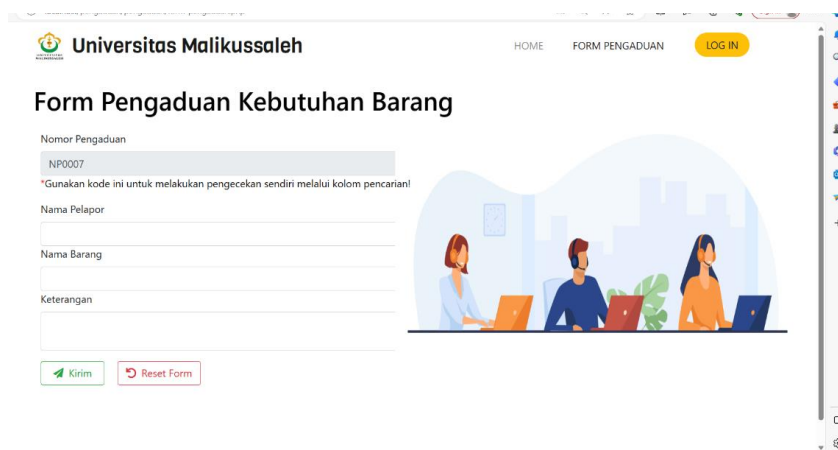


Fig. 3. Complaint Form Display

On this page, users will be directed to fill in the reporter's name, item name, and description. Once the item is reported, it will be sent to the admin page and then inputted by the admin.

3. Admin Dashboard

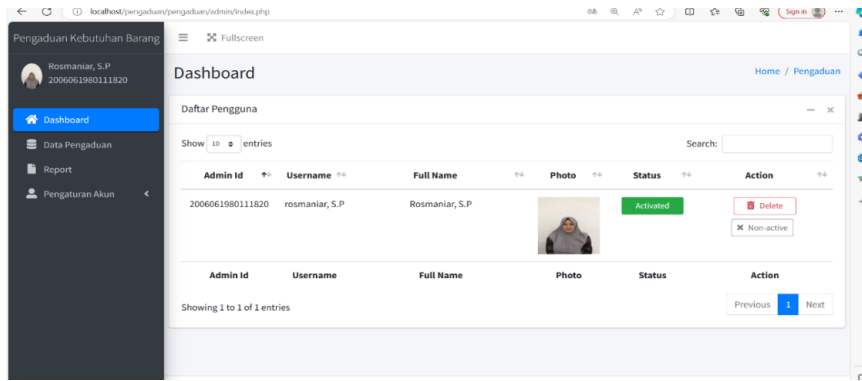


Fig. 4. Admin Dashboard Display

On this page, there is admin data. When there is an additional admin, the new admin data will be entered into the admin dashboard page.

4. Complaint Data

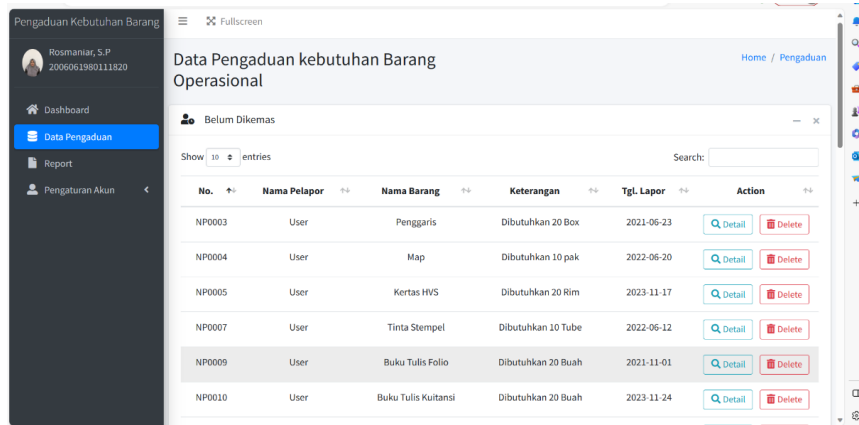


Fig. 5. Complaint Data Display

The image above is the Complaint Data Display. On this page, admins can view and input the goods data that has been submitted by users.

5. Items Not Packaged

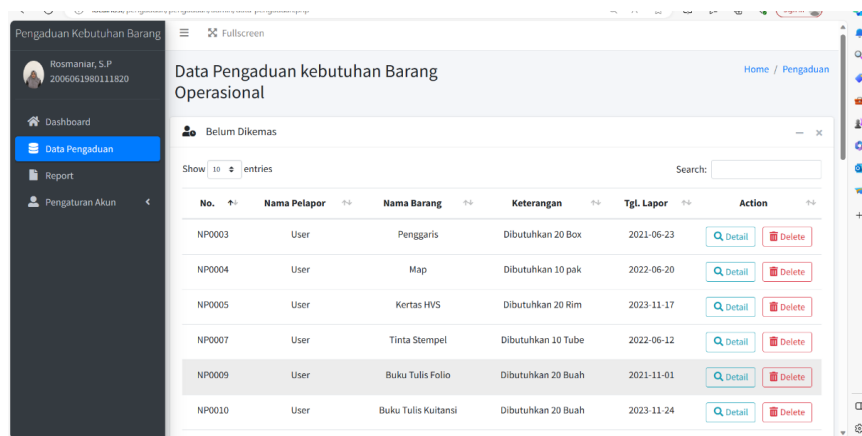


Fig. 6. Items Not Packaged Display

The image above is the display of goods complaints that have not been packaged yet. On this page, admins can edit and delete items according to the packaging results.

6. Items Have Been Packaged

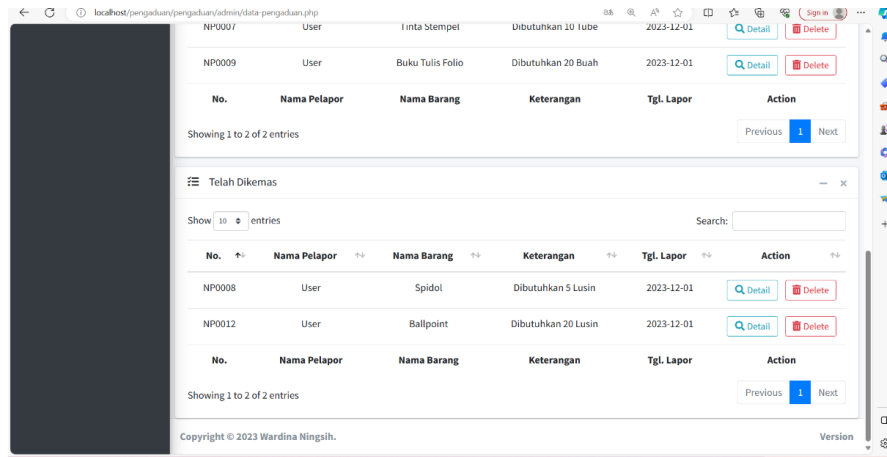


Fig. 7. Items Have Been Packaged Display

The image above shows the display of packaged goods complaints. On this page, admins can edit and delete items according to the packaging results.

7. Print Report

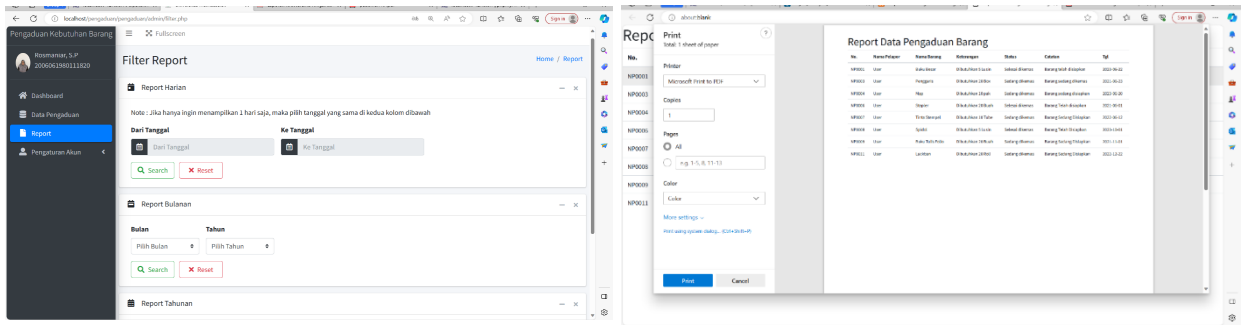


Fig. 8. Print Report Display

On this page, admins can search for or want to display daily, monthly, and yearly data. Then, the system will display the data according to what has been searched. The results of the report printout based on day, month, and year can be saved in PDF format or can be directly printed.

8. Check User Complaints

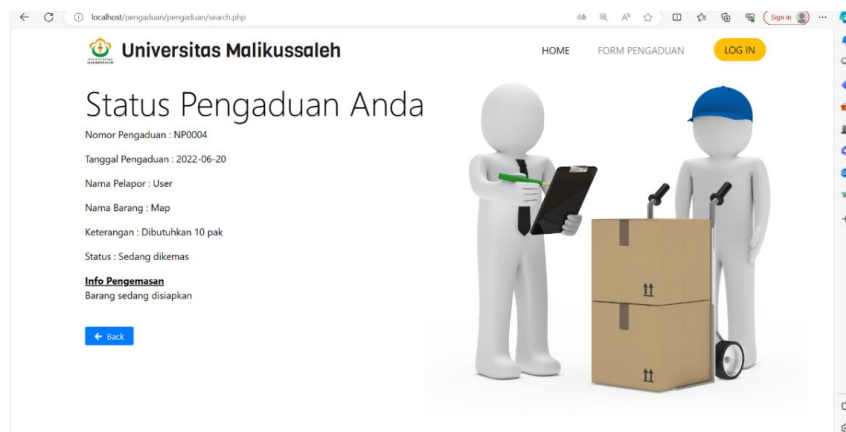


Fig. 9. Check User Complaints Display

The image above shows the display of checking the status of user complaints. On this page, users can check the information results of goods complaints that have been sent by the Admin.

IV. Conclusion

Based on the research results and implementation conducted, it can be concluded that the design of the information system is based on the analysis of the old system to understand the needs for the development of the proposed system. The information system developed from this research includes several main features such as reporting goods complaints, viewing complaint data, checking complaint status, and viewing printable reports based on day, month, or year. With the Operational Goods Needs Management Information System based on the website, it can facilitate staff in reporting and managing operational goods needs, making work more effective and systematic.

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