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Web-based online sales in Hendra Store

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Abstract

When transactions are recorded manually, there are often difficulties in controlling inventory and errors in sales reports. The objective of this research is to develop a sales data processing application that can help store owners manage sales transactions. This research was conducted in Toko Hendra Kota Padang using PHP programming language and MySql as database.

The system development method used is SDLC with waterfall model while the tools used to design this system use UML with different diagrams including: Use Case Diagram, Class Diagram, Activity Diagram and Sequence Diagram. It is hoped that this system can support the performance and services of Hendra's Store by facilitating the management of purchasing and sales data.

A. Introduction

The rapid development of information technology is largely influenced by the development of computers and the Internet, which play a role for a company in achieving its goals, namely to achieve maximum profits.

At Toko Hendra, it is necessary to develop an information system that facilitates the online sales process. So that in the production of information, which is less efficient and less time on the processing of data on the sale of goods can be faster.

As a business that deals with the sale of everyday goods in the city of Padang, it is necessary to develop a sales and online information system that is created in the form of a web or online store account in social media such as Instagram and Facebook.

Hendra's store has not optimized the Internet, sales transactions are still done manually, which means that buyers have to come directly to the store, and sales reports are still recorded in the sales book. When we need a report, it is found using the stored archives. At Hendra's Store, data on available goods is also still recorded in the sales ledger, which leads to carelessness in the delivery of goods, for example, when consumers run out of the item, so a sales information system that can store sales data is needed.

In light of the title selection, the following problems can be formulated:

1. how to design an information system that can facilitate online sales transactions in Hendra's store?
2. how to create a sales application using PHP programming language and MySql database that can solve the store's sales data processing problems?

B. Research Methods

Design of an information system for processing sales transaction data for Toko Hendra using the SDLC design method. The phases of the SDLC are described by the waterfall model. This SDLC method was chosen because the phases of the development process are fixed (definite), easy to apply, and the process is regular. The phases of the SDLC method are: System Analysis, General System Design, Implementation, Testing, and System Maintenance. The phases used in this program are explained below.

1. UML system design tool

This research uses UML, an object-oriented system design tool. Philosophically, the emergence of UML is supported by existing concepts, namely the concept of object-oriented modeling (OO), as this concept analogizes systems like real life, which are dominated by objects and described or notated in symbols that are quite specific. The main purpose of UML is to help project development teams communicate, explore design potential, and validate software architecture designs.

2. System Design

a. Design System Analysis

The system analysis is a description of the information system for processing sales data that is currently still operated manually or non-computerized at Toko Hendra, such as the system for recording sales transactions, which includes sales

data and item data. Also, the verification of data by the store owner himself is still done manually by checking the existing items one by one.

- **Current Usecase Diagram**

Figure 1 Use Case Diagram Of The Current System

b. Proposed system

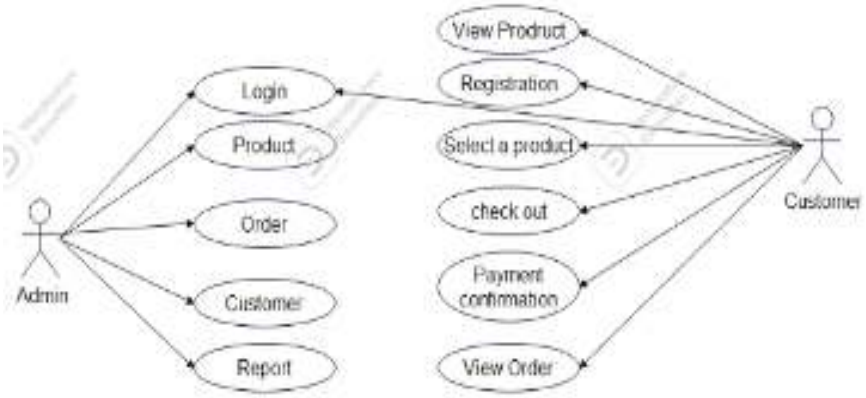

Figure 2. Proposed Use Case Diagram

C. Results and discussion

Hardware specifications needed to implement the design of sales and purchasing data processing information systems in Hendra Padang web-based stores.

1. Interface Implementation

Login page

Figure 3 Login page

Displays the form with which the user enters the system using the username and password

Dasbhboard Page

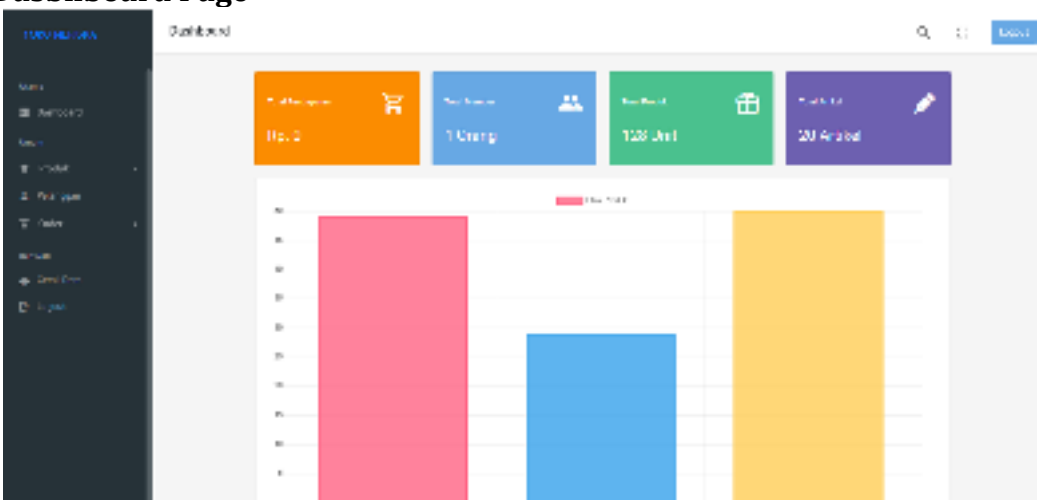

Figure 4 Dasbhboard Page

Menu display that can be accessed by the administrator to manage the sales system.

Product Page

Figure 5 Product Page

Next, on the product page, enter the product barcode present on the packaging, the product name, the product unit, the product category, the price and the product stock.

Customers Page

Figure 6 Product Page

Page that displays the data of customers who have made transactions in Hendra stores.

Order Page

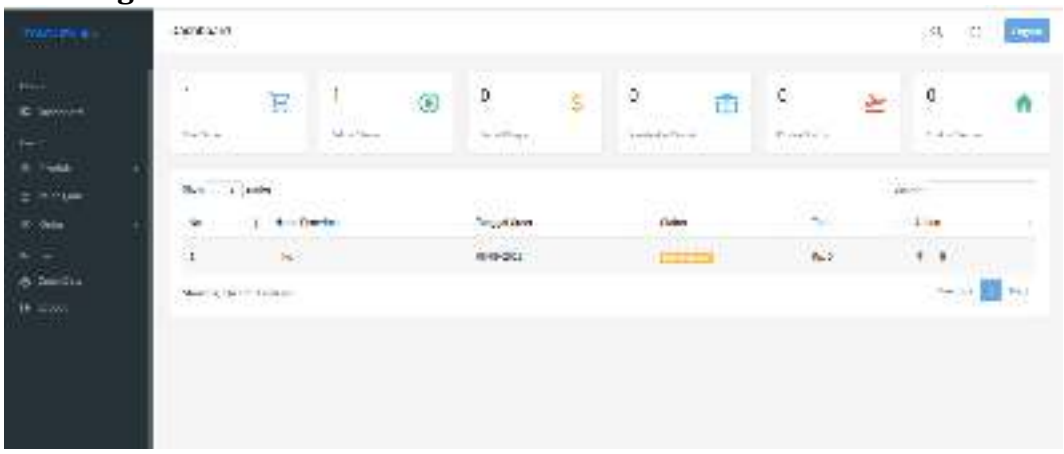

Figure 7 Order Page

On this order page admin can see how many orders have been placed in hendra store. See the status of payments made by customers.

Report Page

Figure 8 Report Page

Displaying the sales report page in the hendra store.

D. Conclusion

Based on the identification of the problems and the results of the analysis of the sales system at Hendra's Store, the authors can draw the following conclusions:

1. with the design of the sales data processing system, the process of report preparation can be simplified. This is because a computerized system can save time, energy and costs compared to the old or manual system.
2. the implementation and testing of the sales data processing system in Hendra's store was developed using PHP programming language and Mysql database.

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