

Designing Sale Application in Store

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Abstract: *This paper presents designing application in store. The store still used a conventional system in which all items sold are still recorded by book and use 2-fold notes and it is recapitulated again for the report. The existing system is still possible for error, it still requires a long time during the process of finding data, as well as during the process of making report. This study aims to produce a faster, more accurate, and efficient sale transaction design application at the store. The method used in this research is by observation, interview, literature, analysis, design, program making. With this application design system is expected to help the sale transaction process in order users can process data quickly and can produce accurate information.*

Keywords : *Designing, Sale application.*

I. INTRODUCTION

1.1 Background

Store is one of the individual businesses engaged in trade field. The types of goods sold at the Store are building materials such as cement, iron, nail building, parallon. The service to the buyer is the most important part to improve the quality and success of the performance [1]. Application design is needed by an agency in achieving success of performance. In order to achieve its objectives, an agency requires an appropriate and efficient application design. To process the system, the Store should have a sale application design. With the support of technology, sale in the conventional way can be replaced by computerized information system [2]. Based on observations and interviews with owner and employees, it was conveyed that the sale system is conventional. Namely recording data in a book, then it recapitulated to make a report [3]. The existing system is still possible for error, it still requires a long time during the process of finding data, as well as the process of making report.

1.2 Research Problem

- Sale system at the Store is still using the conventional method of recording in a book.
- How to make a Sale Application Design at the Store, in

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order it can help the sale process at the Store?

1.3 Limitation of the Research

- The subject of the research is the Store.
- The object of research is Sale Application Design at the Store.

1.4 Research Objective

The objective of the research is to design a sale application that is expected to help the Store during the sale process.

1.5 Benefit of the Research

- Making it easy for the Store in processing data of building material sale.
- Reducing the occurrence of error in making report on building material sale.
- The benefit for the researcher is to increase the ability to design sale application and increase the knowledge about building material sale application system at the Store.

II. THEORETICAL FRAMEWORK

2.1 The Definition of System

- There are two approaches in defining a system, namely those that emphasize the procedure and those that suppress the component or element [4]. The system can be interpreted as a collection of several components that are interconnected with one another to form a unitary unit to achieve certain goal [5].
- Another opinion states that, the system can be interpreted as a series of components that interact with each other and work together to achieve certain goal [6]. In the system contained three important elements, namely a series of components, interaction, cooperation and finally the goal.
- The system is the relationship of one unit with other units that are interconnected with each other and can not be separated and in order to achieve the planned objective [7]. If a unit is jammed or interrupted, the other units will be interrupted to achieve the stated goal.
- The conclusion of some of the opinions above can be concluded that the system is a collection of parts or sub-systems that are put together and designed to achieve a goal [8].

2.2 The Definition of Information

Information as data that has been processed in such a way as to increase someone's knowledge who uses that data. Information is data that is processed in order it can be used as a basis for making the right decision [9]. Information is data presented in a form that is useful for making decision [10].

2.3 The Definition of Application

- a. Application is software that is made by a computer company that does certain tasks such as Microsoft Word, Microsoft Excel and Power Point [11].
- b. An application is a software unit created to serve the needs of a number of activities such as a trading system, community service game, advertising, or all human processes [12].

2.4 The Definition of Sale

Sale is to present goods so that consumer become interested and make purchase [13]. Sale can be done by visiting consumer, waiting for the arrival of consumer and serving consumer. Sale is an integrated effort to develop strategic plan aimed at satisfying the needs and wants of buyer, in order to get sale that produce profit [14]. Sale is an overall system of business activities aimed at planning, determining price, promoting and distributing goods, services, ideas to the market in order to achieve organizational goal [15]. Sale is a business system that presents goods, services for consumer needs in order to make a profit [16].

2.5 Basic Concept of Application System

In designing an application system need to be considered several things to support effectiveness, especially in presenting information adjusted to the purpose of designing the application system itself [17], the values of effectiveness are as follows:

1. The application system should be easy to use among various beginner users [18].
2. Speed quality in finding information should be fast and precise [19].
3. The security of the application system should guarantee all information or data from all forms of interference can be harmful [20].
4. The application system should match with the needed [21].

2.6 Application system

The application system is a design of elements or components that interact to lead to specific goal in computerization [22].

III. ANALYSIS OF RUNNING SYSTEM

The Analysis of the current system is to analyze the problems that exist during the process of selling building materials and record a report on the Store [23]. From the result of the analysis of the existing system, it is found problems, namely:

1. Report recording system still uses conventional system. So it takes a long time.
2. Searching for data is inaccurate.

Based on the result of the observation "With sale that is still use conventional system, many problems occur in compiling report and data search on the Store." With the support of current information technology, data processing work of the conventional way can be done simultaneously with a computer system. In addition, to being fast and easy,

data processing has also become more accurate, so it can help officer to process building material data, transaction data and report making.

IV. SYSTEM DESIGN

a. Systematic Framework

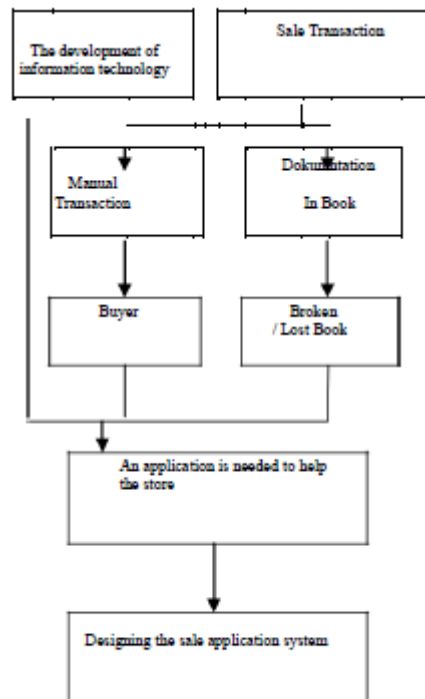


Figure 1. Systematic Framework

b. Data Flow Diagram (DFD)

DFD is a model, data logic or process that is made to describe where the data comes from and where the destination data comes out of the system, where the data is stored, what processes produce the data, and the interaction between the stored data and the processes imposed on that data. The advantage of using data flow diagram is to make it easier for user who lack knowledge in computer field to understand the system that will be developed, as shown below:

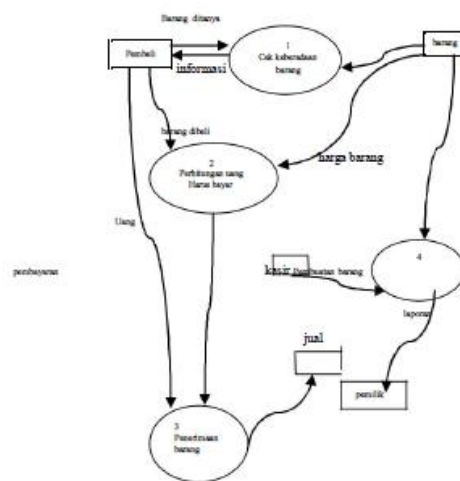


Figure 2. DFD



V. DISCUSSION

a. Login Menu Design

Figure 3. Login Menu

b. Home Menu Design

Figure 4. Home Menu

c. The Design of Goods Brand Input Form

Figure 5. Goods Brand Input

d. Goods Category Form Design

Figure 6. Goods Category Form

e. The Design of Goods Data Input Form

Figure 7. Goods Data Input Form

f. The Design of Purchase Report

Figure 8. Purchase Report

g. Sale Report Design

Figure 9. Sale Report

h. Income statement Design

Figure 10. Income Statement

i. The Design of Goods Supply Report

Figure 11. Goods Supply Report

VI. CONCLUSION AND SUGGESTION

6.1 Conclusion

Based on the result of the research, analysis, and discussion of the sale application system at the Store, several conclusions are drawn as follows:

1. Making it easy for store employees to process sale data for Building Materials at the Store.
2. With the design of the application, it is expected that it can ease the sale process and be able to overcome the problems that occur at the Store.

6.2 Suggestion

1. With this sale information system, there is an effort to further development to be better sale application system with new features that will further facilitate the sale process.
2. In order to be added by other application system such as payroll system, staffing system and so on.
3. For the continuity of this system, it is necessary to have human resources who master the hardware and software, especially the application operating system. This system is still far from perfect, therefore the development of this system is needed, especially with more detailed reporting issue.

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