Analysis Of Kasir Applications In Sales Management Information Systems at ASRI Store

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Abstract—Management Information System is an organized series of a number of parts/components that jointly function or move to produce information that is used in company management. Therefore the company needs an adequate system to produce valid information. As with UD Asri, the company is engaged in trading, whose company's activity is to sell various types of basic ingredients so that the company is overwhelmed in dealing with customer demands. With these problems, the company needs a system that can overcome the problems. Before there was a new system the company used a manual system which was very laborious, therefore the company needed a new system that would solve the problem. Finally, the company uses a cashier application system. So in this final project, we will discuss how the system in the cashier application works so that the company's activities can run. A cashier application is an application used in an office or business location where goods/services are sold to customers. With this application, all sales transactions can be stored properly.The research was conducted at UD Asri. The data collection method used is the method of observation, interviews and literature study. In making this report, of course, it cannot be separated from data analysis starting from planning to system testing. The model used in this application is the PIECES model (Performance, Information, Economy, Control, Efficiency, Service). The cashier application uses Visual basic programming language and the database used is Microsoft SQL server 2000. In this final project also provides information related to the company that is the object of research. This study shows the results of (1) knowing what is in the system so that the system can run, (2) knowing the process the system works, (3) the benefits obtained by the company from the application..

Keywords : Information, Sales, Transactions, Customers

I. INTRODUCTION

Sales is an activity that generates value for individuals and companies. Sales activities are divided into two categories, namely the sale of goods and the sale of services, both of which are beneficial for the lives of individuals and companies both in terms of economic value and the benefits provided. Every company wants its business to experience rapid development, therefore companies need good management and an adequate information system is needed. This is intended so that activities within the company can run effectively and efficiently. UD Asri is a company engaged in trading that sells basic materials needed by the community. Therefore, sometimes companies feel overwhelmed by demand. This can happen because the company uses a manual system (handwritten) which requires a long time in recording and servicing. Therefore, the company replaces the old system with a new system by using a cashier application. This application is very helpful for companies in carrying out various activities. This is what underlies the author to take the title, because this application is very important for the company and the author wants to know how this system can run so that it can solve various problems within the company. Problem Formulation, Based on the background above, it can be formulated that the problems to be solved are how important this application is, how this system runs and the information needed in the application. Troubleshooting., Limitation of the problem can be concluded. The importance of the new system for the company to support the company's activities. How the system process runs and the consequences if the system is not run in the company. Important information that supports the system to run properly.

II. RESEARCH METHODS

In this research method, there are 2 types of methods, namely data collection methods and systems development methods.

2.1 Data Collection Method

The following data collection methods are as follows : Interview : The author's interviews were conducted with company leaders, company employees and visitors at UD Asri. There are several questions that the author asks, including how important the application is for the company, how the work process, the advantages and disadvantages and the perceived comfort for both employees and visitors. Observation : In this stage the authors observe how the application process works, how visitors are satisfied when shopping and the output generated from the application. Library Studies : At this stage the authors collect data from the output obtained by visitors and the results of the analysis conducted at UD Asri.

2.2 System Development Method

The following methods in system development are as follows : System planning : In this stage the author will design a system application consisting of entering item information in the form of name , price, bar barcode into the system, using the PIECES method (Performance, Information, Economy, Control, Efficiency, Service) in conducting the sales process which is applied in system. System Analysis : This stage is the process of tracing and identifying problems. The data obtained is data that can be used to assist the decision-making process. The data is information about an item, namely the name of the item, the barcode of the item and the price of the item. System Design : Design is an attempt to describe, plan, sketch or

compose elements into a unified whole. System design means integrating the system as a whole. The thing to note is the proper input of data into the system so as to produce accurate output. The point in this application is data about the goods and the results of the data entered. System Implementation : The system implementation stage is the stage of putting the system so that it is ready for operation. In this stage the user can find out how the system can run. The company has used this system, users only enter a password to enter the application so that the application can be run. System Testing : In this stage , the system testing is carried out with 2 tests, namely the functionality test and the questionnaire test. Functional testing is a type of test whose job is to verify that all application functions on the software are operating as expected by the designer. While the questionnaire test is a questionnaire (questionnaire) is a research tool or survey consisting of a series of written questions , aimed at obtaining responses from selected groups of people through personal interviews or by post; a list of questions.

2.3 Management Information System

According to Jacob (2012: 17) the system is a group of elements that are integrated with the same goal to achieve the goal. Organizations consist of a number of human, material, machine, money and information resources. these resources work together towards the achievement of a specific goal determined by the owner or management. According to Hartono (2013: 20) Management Information System is a system, which is an organized series of a number of parts/components that jointly function or move to produce information for use in company management. A management information system is an integrated human or machine system, to provide information to support operations, management and decision-making functions within an organization .

2.4 Management Information System

To facilitate activities within the company, UD Asri uses a cashier application. The cashier application is a cloud - based system (online based) that can help process sales transactions. The main function of this application is to help the payment process to be integrated.

2.5 Supporting component

The concept of a Decision Support System (DSS) was first revealed in the 1970s by Michael S. Scott Morton with the term Management Decision System DSS is an interactive information system that provides information, modeling, and manipulating data. According to Alter, DSS is used to assist decision making in semi-structured situations and unstructured situations where no one knows for sure how decisions should be made. DSS is a form of Computer Base Information System (CBIS) that is interactive, flexible, and specifically developed for support problem solving from unstructured management to improve decision making. DSS are usually built to support the solution of a problem or to evaluate an opportunity. The design of this sales information system uses the PIECES method (, Information, Economy, Control, Efficiency,

Service). This analysis will help design a better system. According to Wukil Ragil (2010:17), the PIECES method is an analytical method as a basis for obtaining more specific issues. In analyzing a system, it will usually be carried out on several aspects including performance, information, economy, application security, efficiency and customer srv.

2.6 Application Model

The application model that the author uses is the cashier application, where this application is used in various business activities. This application includes an offline application model, users only enter a code, username and password to enter the application. Then after entering the application the user can use the application as needed. There are several ways to display the desired information.

2.7 PHP Programming Language

The cashier application uses the Visual Basic programming language which is one of the programming languages that is often used today. Besides being easy to learn on your own, Visual Basic is also reliable enough to be used in making various applications, especially database applications. Visual Basic is a controlled programming language or referred to as (event drive) , where the program waits until there is a response from the user in the form of events or events (Ema Utami and Sukrisno: 2005). Visual Basic is a development tool for building applications in a Windows environment. In application development, Visual Basic uses a Visual approach to design the user interface in the form of a form, while the coding uses a dialect of Basic language which tends to be easy to learn. Visual Basic has become a well-known tool for beginners and developers in developing small to large scale applications. In the Windows's User-interface environment, it plays an important role, because in the use of the applications we create, the user always interacts with the User-interface without realizing that behind it are running program instructions that support the display and the process performed. In Visual programming, application development begins with the formation of a user interface, then manages the properties of the objects used in the user interface, and then writes program code to handle events. This application development stage is known as application development with a bottom-up approach.

2.8 MySQL Databases

Microsoft SQL Server 2000 is a database application created by Microsoft. Its main function is as a database server that manages all data storage processes and transactions of an application. Microsoft SQL server 2000 is also a modern database breaker and innovation by highlighting the ease, speed, accuracy and sophistication in managing a modern database of small, medium and large scale. MySQL is a SQL database management system software (English: database management system) or DBMS that is multithreaded, multi-user, with about 6 million installations worldwide. MySQL AB makes MySQL available as free software under the GNU General Public License (GPL), but they also sell under a commercial license for cases where with the use of the GPL.

III. RESULT AND ANALYSIS

In the discussion discussing the results of research in the form of system design as a whole are as follows :

3.1 Analysis of Computerized Systems

System analysis is the process of analyzing problems that are solved by the company with information systems. This stage is an important stage, because the right analysis process will provide accurate information. UD Asri needs a system that can assist the company's activities regarding sales, because the company records manually so it can waste time, effort and costs. Therefore, a computerized-based decision support system is needed so that it can facilitate the company's activities related to sales. .

3.2 System Implementation

System implementation is the implementation stage and at the same time testing for the system based on the analysis and design that has been done. At this stage the author will explain the process of running the system from beginning to end.
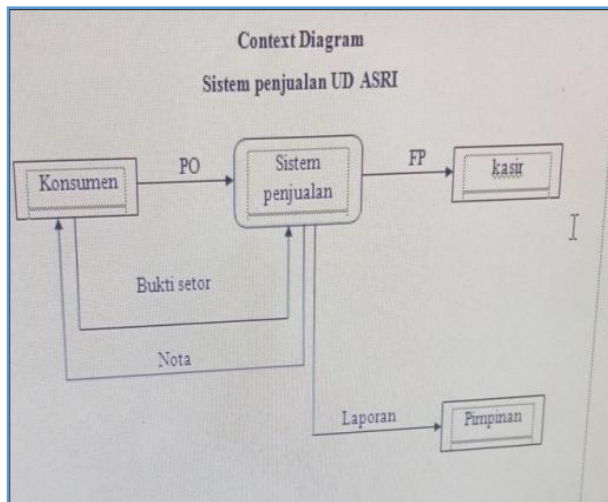
Figure 1. Desain Contex Diagram

1. Login form

In this form there is a login button which is used to validate the code , name and password   entered. Through this process, a user can access the menus in the application. The display of the login form is shown in the image below, figure 2.
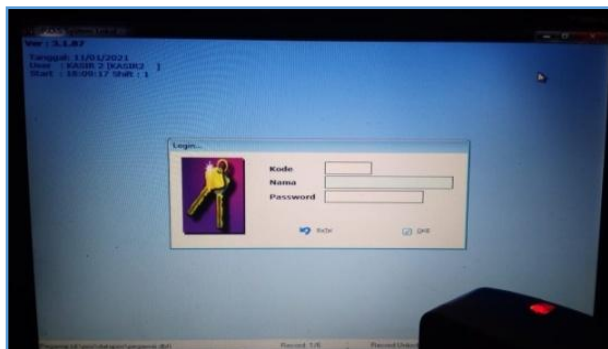

Figure 2. Login System

2. Item sales menu form

When the author analyzes the process of running the application, then after logging in, the page below immediately appears, figure 3.

Figure 3. Item sales menu form

3. Goods sales output process

After going through the above process, a display will appear to produce output, as shown below:
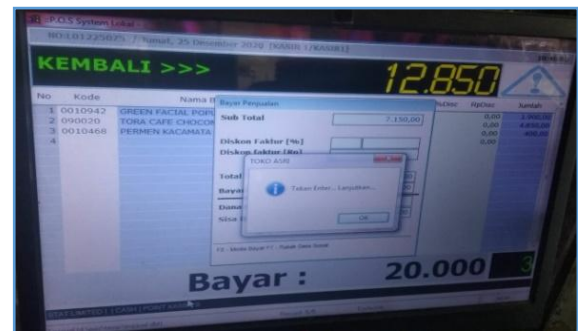

Figure 4. Selection Result Accepted

4. Output Results

From the variety of the above process, the resulting output is a memorandum which contains information about the items purchased, so that if something goes wrong in noting the consumer can directly fix to the perusahaan.beri kut following output results figure 5.
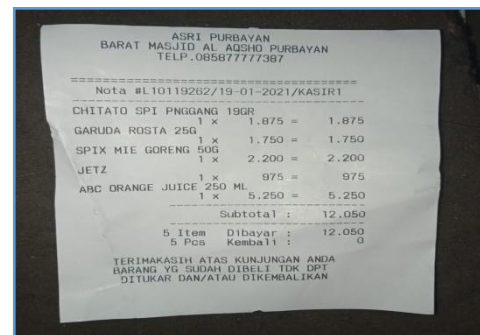

Figure 5. Output Results

3.3 System Test

Black Box Testing or often known as functional testing is a software testing method used to test software without knowing the internal code structure or program. In this test, the tester is aware of what the program has to do but has no knowledge of how to do it.

Software testing has a sequence of things that need to be done. The following are the software testing categories arranged in chronological order:

Unit Testing: Testing is performed on each module or block of code during development. This testing is usually done by the developer who writes the code.

Integration Testing: Tests performed Before, during, and after the integration of a new module into the main software package. This test involves testing each code module from each individual. One piece of software can contain several modules which are often created by several different developers.

System Testing: Testing performed by professional testing agencies on a completed software product before the software is generally introduced.

Acceptance Testing: Beta testing of the product carried out by actual end users.

Testing is the process of testing the system at the end which is also useful for testing the system. there are two system tests, namely functionality test and validity test. the following is the test: Functionality Testing : This test is carried out to test each form or page on a new system application. Here are the results of the functionality test Figure 3.

Figure 3. Testing System

IV. CONCLUSION

At the end of this cover contains conclusions, as follows: 1) Conclusion : A good management information system will help the company's activities more easily, The cashier application has become UD Asri's choice as a decision-making system. this application is very helpful for companies in carrying out their activities, this can be felt by the users themselves and other people who are affected by the application such as consumers, Of the 2 users of the cashier application that we tested, the results showed that this application was 97% very helpful for the company, even though there were weaknesses. The only weakness lies in the user who inputs the data, From the 4 consumers we tested, the results showed that this application was very helpful, consumers felt comfortable with the application because the process was fast. It can be said that this application has a value of 98% from 100%, because this application is very helpful and if there are problems, it is caused by application users, 2) Suggestions : From various analyzes to the end of this research, the author would like to give advice to the company so that in the future the company will be even better, including: The weakness of the system is that if you enter inaccurate data into the system, the system will not produce valid output, it is better if you want to enter information related to sales, especially regarding information on goods, you must be more careful and careful so that the information entered is correct and produces output. right. There is a problem that there is an error in returning money to customers, it is hoped that the cashier will be more careful in calculating the amount of consumer payments, because there are consumers who complain about this. It is hoped that the company will always follow the development of existing technology so that the company does not lag behind in information and understanding technology.

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