BUILD OF E-COMMERCE SYSTEM IN TOKO KEMENANGAN

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ABSTRACT

Toko Kemenangan is a business entity which is engaged in selling paper. Development of e-commerce system are based on manual systems that are running. Manual system which runs currently the only form of sales based on consumers who come directly to the store. In addition, the Toko Kemenangan also has disadvantages, ranging from the promotion process and transactions and in preparing reports sales are still done manually so that the sales report has not been well detailed.

The descriptive research method was applied in the development process of the building of e-commerce website was used as the data analysis technique the software development method was used waterfall technique. For the method of system data flow used the Data Flow Diagram (DFD) to describe the functional model and the Entity Relationship Diagram (ERD) to describe data model. system builder software is PHP with MySQL 5.0 database server. For the payment, this website use paypal or transfer of bank account with data security applications using IP-Dedicated and use SSL (Secure Socket Layer).

After some phases in accordance with the development method, the implementation of e-commerce system needed an advanced testing system which was consisted of the alpha and beta testing. The alpha testing system used the testing method of the black box which focused on the functional requirement of software and the beta testing was a field testing by giving questionnaire to the officials of Toko Kemenangan as operator and to public society as a consumer. After the alpha and beta testing, can be deduced that the functional system can already generate the expected output, with a view that is quite interesting websites and provide convenience to the user in processing data.

***Keyword** : E-commerce, Data Flow Diagram, waterfall method*

1. INTRODUCTION

Toko Kemenangan is a store that sells various kinds of paper. Toko Kemenangan is located at Jalan Raya Bekasi Jaya Margahayu Zip Code 17113. Since its establishment in 2000, this store has had a lot of consumers, even arguably already has a regular customer. Sales system used today is the conventional system, the consumer must come directly to the Toko Kemenangan to see the various types of paper being sold. With the system running will be time-consuming consumers so difficult to obtain information about the goods sold.

As information technology development, other business entity engaged in the same field have been using the facilities of information technology. One aspect that most support is the presence of e-commerce facilities that can assist in the process of sale or supply of goods. With the e-commerce, business entities can market their goods online so that consumers who are outside the city can view and order products without having to come directly to his shop.

At this time, in the Toko Kemenangan already have a set of computers that accessed the internet but have not used e-commerce facilities so that the sales process at this shop limited to consumers who come to the store alone, but it is still a lot of consumers who have difficulty in finding a store that offers various kinds of paper. It is the background that these stores need to market and inform the papers sold by utilizing e-commerce facility so that it can store more advanced and developed.

The purpose of writing this thesis is to build e-commerce system at Toko Kemenangan. While the objectives of writing this essay is as follows:
1. Utilizing information technology to assist the sales process and supply goods.
2. Enable customers to obtain information about the goods sold and offered by Toko Kemenangan.
3. Toko Kemenangan makes it easy to offer or sell products to consumers who are outside the city.
4. Facilitate internal operations shop.

MODEL, ANALYSIS, DESAIN, DAN IMPLEMENTATION

2.1 Model

Data analysis techniques in the making software using modeling software with waterfall method, which involves several processes including:
a. Requirements analysis and definition: Gather the complete needs and then later analyzed and defined the needs that must be met by the program that will be built. This phase should be done in full to be able to produce the complete design.
b. System and software design: Design is done after completion requirements are collected in full.
c. Implementation and unit testing: design of the program is translated into code using a programming language that has been determined. The program is built directly tested both units.
d. Integration and system testing: Integration of the program units are then tested as a whole (system testing).
e. Operation and maintenance: programs operate in their environment and perform maintenance, such as adjustment or change because of adaptation to the actual situation.
Figure 1. Waterfall Method.

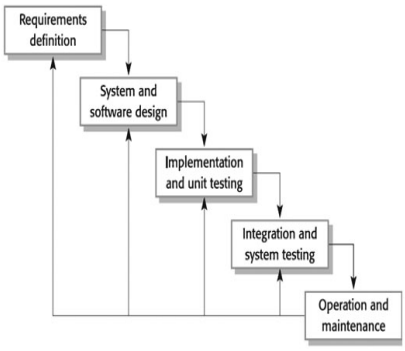


Figure 1. Waterfall Method

2.2 Analysis

2.2.1 Analysis Of Current Procedure

Based on this research, there are several procedures done at Toko Kemenangan, including:

1. Sale of Product Procedure
2. Daily Sales Summary Procedure

After conducting an analysis of current procedures, can be seen that in the sale of product, customers must come into the boutique and a recapitulation of sales still doing manually.
The proposed solution is with develop a e-commerce to overcome these problems.

2.2.2 Functional Requirements Analysis

2.2.3.1 *Diagram Context*

Context Diagram is a tool for structural analysis. This structural approach to describe the general system or in its entirety.

Context Diagram of e-commerce sites in Toko Kemenangan can be seen in Figure 2.

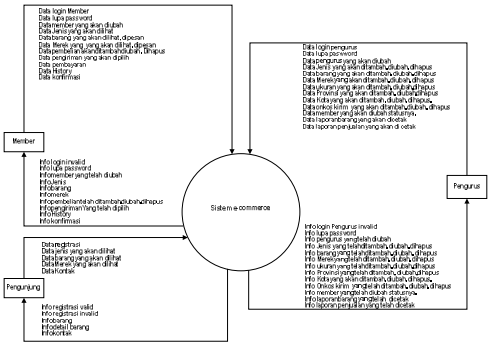


Figure 2. Context Diagram of e-commerce sites in Toko Kemenangan.

2.2.3.2 DFD Level 1

DFD level 1 for e-commerce sites on Toko Kemenangan can be seen in Figure 3.

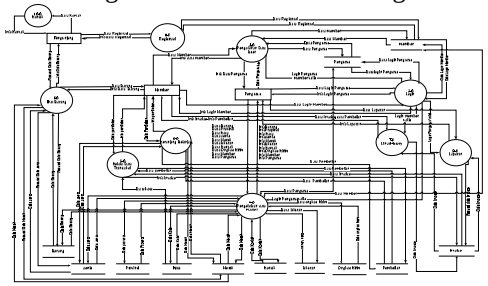
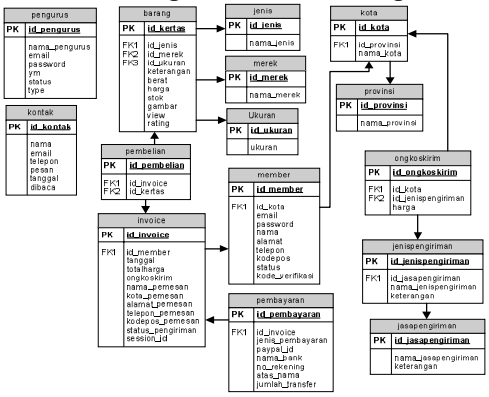


Figure 3. DFD level 1 for e-commerce sites on Toko Kemenangan

2.2.3.3 Skema Relasi

Relation schema of e-commerce sites on Toko Kemenangan can be seen in Figure 4.



Gambar 4. Relation schema of e-commerce sites on Toko Kemenangan

2.3 Desain

Menu structure design is use of point system that is easily understood and easy to use. The design of the menu structure of e-commerce site is divided into three menu:

a. Visitor menu structure
Can be seen in Figure 5.

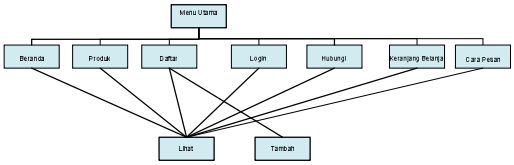
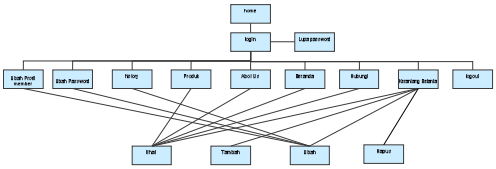


Figure 5. Visitor menu structure

b. Member menu structure
Can be seen in Figure 6.

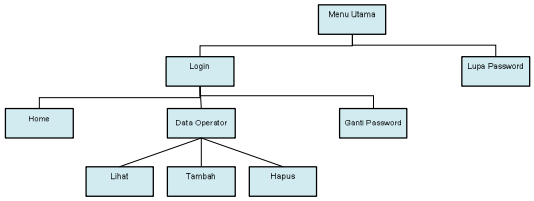


Gambar 6. Struktur Menu Member

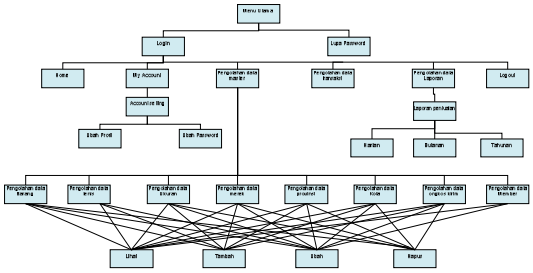
c. Management menu structure

Can be seen in Figur 7.

A. Administrator



B. Operator



Figur 7. Manangement menu structure

2.4 Implementation

Plan testing will be done by testing the system as alpha and beta.

Based on the results of alpha testing and test samples that have been the case can be concluded that in each process still allows for syntax errors and mistakes in the logical point of view, because the error handling capability has not been fully dealt with, but functionally the system is able to produce the expected outputs.

Based on the results of beta testing with a sample test case that has been done give the conclusion that functional systems can already produce the expected output and user friendly appearance.

2. RESULT AND DISCUSSION

From analysis and design that has been done, the results of the application built one of them might look like in Figure 8. below:

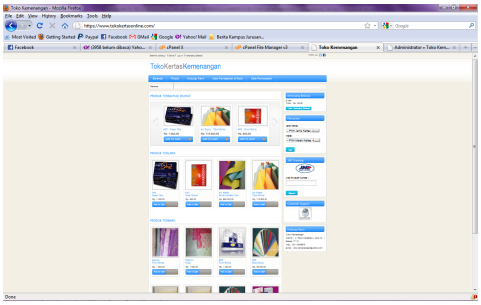


Figure 8. Display applications

3. CONCLUSIONS AND RECOMMENDATIONS

3.1 Conclusions

After conducting several tests on web applications that have been built, the author finally to draw conclusions as follows:
1. With this website the customer becomes easy to get the right information and details about the product without having to come to the store.
2. With this website sellers to expand its market share.
3. Simplify data management sales report for the seller.
4. With this website allows prospective buyers in the process of payment because of the choice of payment system either through offline payment or payment via online using Paypal.
5. With this website the customer that are outside the city will continue performing transactions without having to come to the Bekasi.

3.2 Recommendations

The suggestions on the use of the system that want to develop E-commerce applications, the author gives suggestions are as follows:
1. There needs to be development on the design of slicked up for viewing more attractive to more consumers.
2. There needs to be development in the ordering process.

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