DEVELOPMENT APLICATION E-COMMERCE WEB-BASED AT NIS N US SHOP

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ABSTRACT

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Nis N Us is a shop that has existed for a long time and until now have many kinds of goods, including clothing and healthy food. In marketing their products Nis N Us Shop still market the products in small scope and limited to the relations and business partners only.

To overcome the problems that occurred, then this e-commerce application is built to expand the scope of marketing. Flow Data methods which used is structured method which consist sof Data Flow Diagrams (DFD) in describe functional model and Entity Relationship Diagram (ERD) to illustrate data model. Payment process can be done through transfers between bank accounts and paypal. The objectives of the development of e-commerce system is to make buyers easier bought products without have to come directly to the store.

Based on the analysis and testing has been done then it can be concluded that e-commerce information systems is helpful to marketing Nis N Us Shop products into remote areas to stream line the time, effort, and money. E-Commerce has been built is tobe used as material for further system development.

Keywords : e-commerce, DFD, ERD, structuredmodel, paypal

1. INTRODUCTION

Nis N Us Shop is a shop that has long standing and until now has many kinds of goods including clothing. In marketing their products Nis N Us Shop is still small in scope and limited to relatives and business associates only.

In the fierce competition, Nis N Us Shop should be able to take quick and appropriate steps to promote and market their products. Nis N Us Shop also must figure out how to market products that can be known and can be obtained easily. Often long distances to obstacles in doing business, particularly in implementing marketing strategies and promotions. Customers who are in distant places find it difficult to get products from Nis N Us Shop.

Time efficiency is also one that is no less important consideration. Time spent on promotion is sometimes not in accordance with the results obtained. The little things that can interfere in the promotion of goods is also the reason for the lack of efficiency of time. In other words, Nis N Us Shop should be able to overcome the constraints of space and time in doing the marketing.

The use of electronic commerce (e-commerce) that is currently highly developed rapidly into a major reason why this solution is very appropriate to be applied in Nis N Us Shop.With e-commerce, prospective buyers can find detailed info about the product. In addition, e-commerce can connect sellers and buyers of different places to shop as though it will not happen right away so the constraints in making purchases.

Constraints such as marketing, sales of goods to remote areas, and effesiensi time can be solved by building an e-commerce application, the proposed solution is to build applications

for e-commerce sales in Nis N Us Shop.
The intent and purpose of writing this thesis is as follows:
1.Memperluas marketing products and increase brand popularity.
2.Memberikan convenience of purchasing goods for customers located in a remote area.
3. Streamline the time in marketing their products..

2. MODELS, ANALYSIS, DESIGN AND IMPLEMENTATION

2.1 Models

Data analysis techniques in software making use modeling software with the waterfallmethod, which involves several pr ocesses including:
a. System Requirements Analysis
At this stage of data collection and identification process of the system needs to be built.
b. Design
Design is the translation stage of the analyzed data into a form easily understood by theuser.
c. Coding
Coding is the translation stage data or solving problems that have been previouslydesigned into a particular programming language.
d. Implementation And Testing
This stage is the testing phase of software that is built.
e. maintenance
Maintenance is the final stage in which a software that has been completed can experience the changes or additions as requested by the user.

2.2 Analysis

2.2.1 Running Procedure Analysis

Based on this research, there are a number of procedures performed in Nis N Us Shop,includ ing:
A. Sales of Goods Procedure
2. Procurement Procedures
3. Returns Procedure
4. Reporting Procedures

After conducting an analysis of the procedure is running, it can be seen that in the saleof goods, customers have come to Nis N Us Shop. Proposed solution is to builde-commerce to overcome these problems.

2.2.2 Functional Needs Analysis

2.2.2.1 Context Diagram

Context diagram is adata stream that serves to illustrate the relations of data flows between systems with the outer parts.The context diagram for the system to be built can be seen inFigure 1.

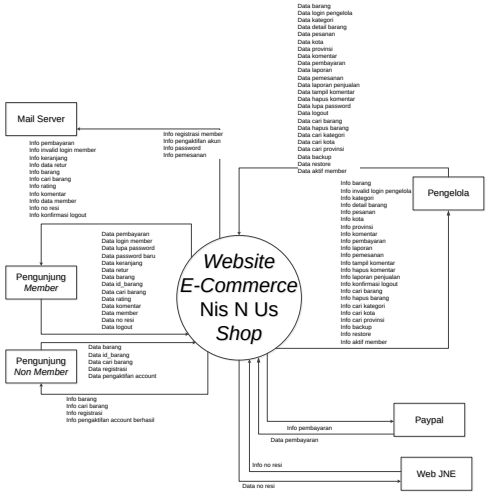


Figure1Context diagram

DFD Level 1

DFD level 1 fore-commerce site at Nis N Us Shop can be seen inFigure 2.

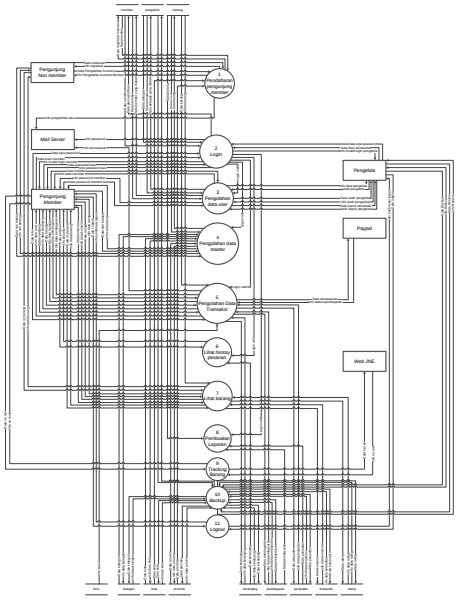


Figure2 DFD Level 1

2.2.2.2 Relationship Diagram

Relationship diagram frome-commerce site at Nis N Us Shop can be seen inFigure 3.

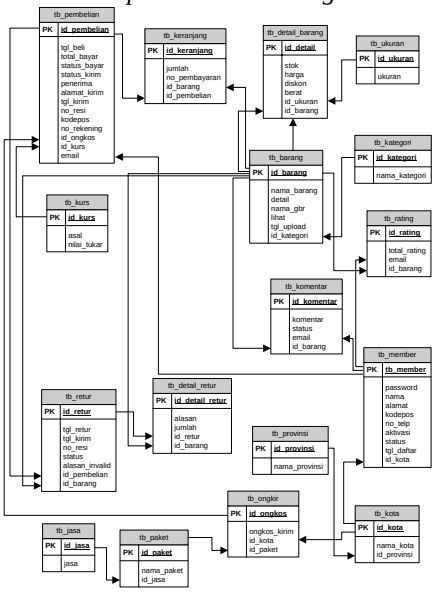


Figure3Relationship diagram

2.3 Design

Menu structure design isa path of the system that is easy to understand and easy to use. Menu structure design of e-commerce site is divided into four:

a. Guest menu structure. Can be seen inFigure 4

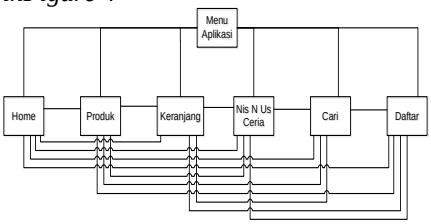


Figure4Guest menu structure

b. Member menu structure. Can be seen inFigure 5

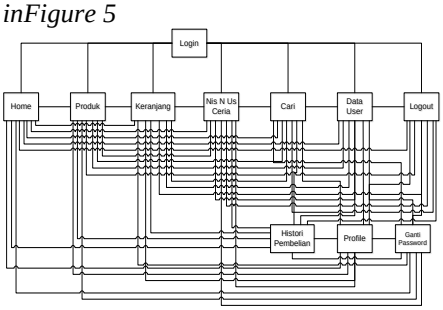


Figure5Member menu structure

c. Operator menu structure. Can be seen inFigure 6

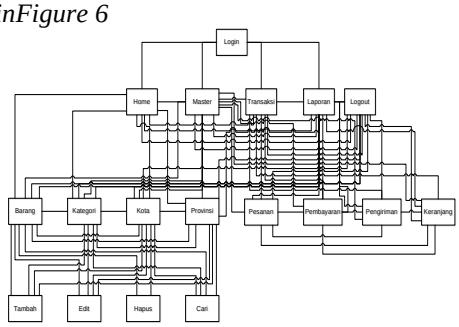


Figure6Operator menu structure

d. Admin menu structure. Can be seen in Figure 7

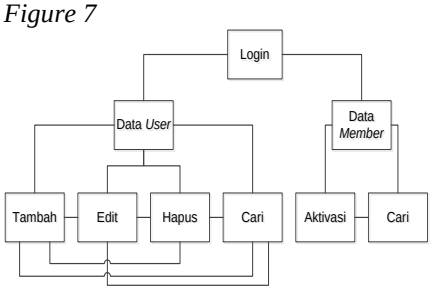


Figure7Admin menu structure

2.4 Implementation

Based the testing to be performed by testing the system as alpha and beta. Based on the results of alpha testing and sample test cases that have been made to come to any conclusion that the process still allows for errors in syntax and logical errors, because the error handling capabilities have not been fully addressed, but a functionalsystem can produce the expected output.

Based on the results of beta testing with a test sample of cases that have been done to the conclusion that a functional system can produce the expected output and looks user friendly.

3. RESULTS AND DISCUSSION

From analysis and design has been done, the results of the application that was built one of them can be seen inFigure8:

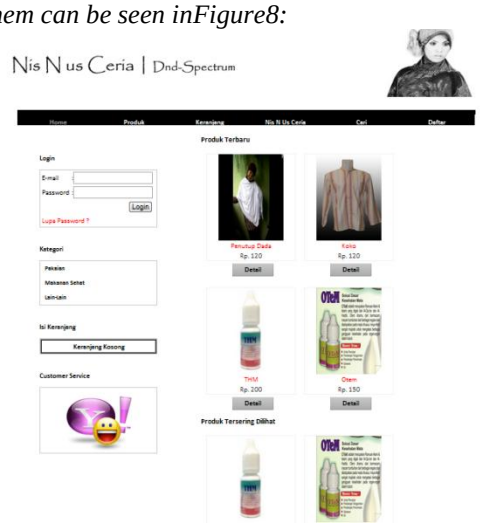


Figure8Display applications

4. CONCLUSIONS AND SUGGESTIONS

4.1. Conclusion

Based on the results obtained in the making of this thesis, it can be concluded that:

1. *Application of E-Commerce in Nis N Us This can be run in accordance with its purpose,which is a commerce application that can handle business processes and expan d the scope of the marketing area of Nis N Us Shop.*
2. *Backed with a pretty good user interface, this application facilitates the buyer in thepurchase of goods without being limited by time and place, and enable managers tomanage corporate dat a such as data items, ordering products, merchandising, datamember and data ma nagement.*
3. *Help sales of products that are not limited to the place and time, as well as transaction processing can be done at any time with the Internet network as well as helping the company to manage reservations and sale s reports.*

4.2. Suggestion

From all of the results have been achieved today, it still has some shortcomings. It is advisable to add features that could complement this website in the future. Which is:

1. *Giving a more attractive design.*
2. *Need for further research to improve the security of the website in order to avoid the things that are not desired by ignorant hands.*
3. *Need for further research to optimize your website access time because the access time is still not optimal.*

5. REFERENCES

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