# *DEVELOPMENT OF ORACLE SHOES SHOP E-COMMERCE APPLICATION*

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## ABSTRACT

*Oracle Shoes Shop is a shopping complex that concern sales of cloth, bag, shoes, and accessories. The e-commerce website development is based on a manual system. The present system based on sale of consumer that came to the shops. Besides that, the management of report sales still doing on based manual system, so the report is not structured well.*

*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. For the payment, this website use paypal or transfer of bank account. The objective of building this e-commerce website was to make easy the customer for buying product without came to the shops and make easy to do management product. Besides that, to make easy the management of report sales*

*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 Oracle Shoes Square as admin and to public society as a consumer. After the alpha and beta testing, it could produce output and the e-commerce it was easily used, with attractive appearance, and it could accelerate data management and more easily to making report of sale.*

***Keyword** : e-commrece, DFD, waterfall method.*

## 1. INTRODUCTION

*Oracle Shoes* Square is a stores that specializing in sales of shoes. It consist of many store. The products sale in the *Oracle Shoes* Shop served a place for stores in majalengka to do a trading especially shoes.

Based on the results of interviews with the owners of Oracle Shoes Shop, on sale of products, sales based only that consumers who come directly into the stores. While the average consumer who comes to Oracle Shoes Shop Square only three to seven people each day, this is still less because the consumers who come into the stores mostly regular customer and to a new consumers who come into the stores is still less.

The further problems were encountered that is related to the sale are limited just around the Majalengka city, so for buyers from outside Majalengka has to come to the stores that is felt less effective and time consuming. Meanwhile, in a promotion, still using pamphlet that felt not give precise information about products that offered to the consumers.

To solve the problems that occur, that need a system that can handle these problems, one of which is with development of e-commerce sites at Oracle Shoes Shop.

The purpose of writing this paper is as follows:
Based on the problems studied, the purpose is to develop e-commerce site on Oracle Shoes Shop.
While the goal of this research are:
1. Simplify marketing and sales as well as make it easier for buyers ordering product without come directly to the Oracle Shoes Shop.
2. Easier in product management, whether conducted online transactions or

transactions that come directly to the boutique.
3. To promote and introduce Oracle Shoes Shop products through the internet that not restricted by time.
4. Facilitate in making the sales summary report.
5. Provide accurate information regarding the products that offered by Oracle Shoes Shop to prospective buyers.

## 2. MODEL, ANALYSIS, DESAIN, DAN IMPLEMENTATION

### 2.1 Model

Data analysis techniques in making software, using modeling software with the waterfall method, which includes several processes such as:

*a. System Requirements Analysis*

In this stage doing data collection and identification process of the system needs to be built.

*b. Design*

Design is a translation phase of the analyzed data into a form that is easily understood by the user.

*c. Coding*

Coding is the translation phase of the data or solving problems that have been previously designed into a particular programming language.

*d. Implementation And Testing*

This phase is testing of the software has built.

*e. Maintenance*

Maintenance is the final step which a software has been completed can changes or additions as requested by the user.

### 2.2 Analysis

#### 2.2.1 Analysis Of Current Procedure

Based on this research, there are several procedures done at Oracle Shoes Shop, 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 develope 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 the Oracle Shoes Shop can be seen in Figure 1.




Figure 1. Context Diagram of e-commerce sites in the Oracle Shoes Shop.

#### 2.2.3.2 DFD Level 1

DFD level 1 for e-commerce sites on Oracle Shoes Shop can be seen in Figure2.

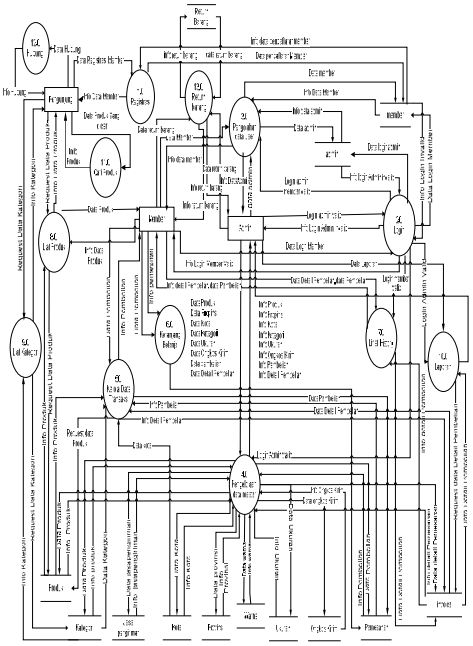
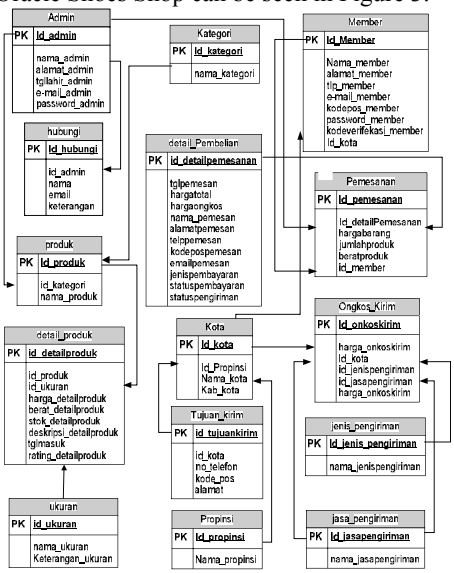


Figure 2. 1st Level DFD for e-commerce sites Oracle Shoes Shop

### 2.2.3.3 Skema Relasi

Relation schema of e-commerce sites on Oracle Shoes Shop can be seen in Figure 3.




Gambar 3. Relation schema of e-commerce sites on Oracle Shoes Shop

## 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 web menu:

a. Visitor menu structure
   Can be seen in Figure 4.

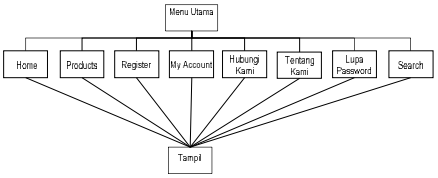



Figure 4. Visitor menu structure

b. Member menu structure
   Can be seen in Figure 5.

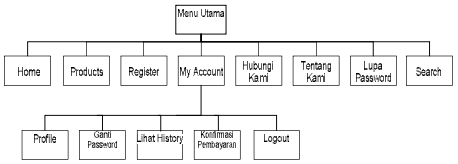



Figure 5. Struktur Menu Member

c. Admin Oracleshoes menu structure
   Can be seen in Figure 6.

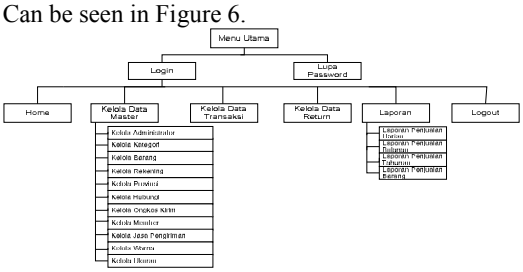



Figure 6. Admin menu structure

## 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.

## 3. 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:

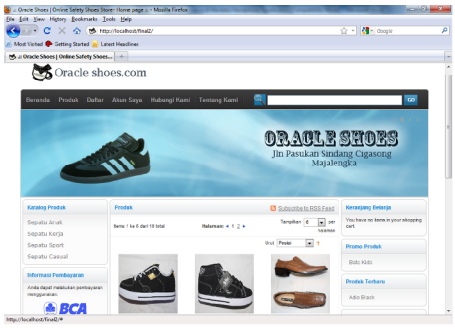



Figure 8. Display applications

## 4. CONCLUSIONS AND RECOMMENDATIONS

### 4.1 Conclusions

Based on research conducted, it can be concluded from the development of e-commerce sites on Oracle Shoes Shop as follows:

a. E-Commerce Application System for Sale System can be run in accordance with the objectives, namely to help in promoting product sellers online.
b. Facilitate in making the sales recap
c. Make it easy for buyers to purchase goods without a limited time and place.
d. Ease in managing data product.
e. Can provide the right information to the buyer of the product that sold.

### 4.2 Recommendations

Based on the above conclusions, the suggestions are expected of providing design and payment not only through paypal and inter-bank transfer but can be via credit card.

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