ABSTRACT

DEVELOPMENT OF E-COMMERCE APPLICATION AT MARS DISTRO

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Mars Distro is a business entity which is engaged in selling clothing and accessories. Development of e-commerce applications 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 distributions Mars 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 Mars distro as admin 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