ABSTRACT

Home Industry Cilok Bapri is a home industry engaged in the culinary field. This Home Industry manufactures products from aci, namely cilok. In the process of procuring raw material of Home Industry Cilok Bapri does not estimated the amount of material that must be purchased. Wich can cause the procurement of materials are not in according to need. The mismatch causes excess or lacks of inventory, wich result can affect to quantity and quality of the product. Based on some of the problems that have been explained, a web-based application can be built, it can handle the procurement of materials using the Moving Average approach. In this application, Moving Average is used as the estimation method that estimates the amount of raw material to be held based on previous procurement history. Applications built using waterfall method with development of Software Development Life Cycle (SDLC), design process using Unified Modeling Language (UML) system modeling, database designing using Entity-Relationship Diagram (ERD) and structure between tables, as well as application programming language using PHP with Codeigniter framework and MySQL query language. The functionality runs 100% after testing, which is the result of a comparison between manual calculations and calculations in estimates and tested with the Black Box Testing method. After implemented, the application can make an estimation of material inventory needs by using Moving Average method, manage the procurement of materials from the results of the estimation of raw material needs, produce accounting reports in the form of general journals and reports of estimated results of the needs of raw, also evaluating the results of estimates and realization of needs.

Keywords:. Estimation, Moving Average, PHP, CodeIgniter