

ABSTRACT

CV Saudara Mulya Bersama is a manufacturing company engaged in the convection sector. CV Saudara Mulya Bersama produces clothing such as Muslim clothes for women, jackets, and sweaters that can be used for both men and women. The obstacle faced by this company is the calculation of the cost of production which is still recorded using Microsoft Excel and the recording of calculations has not been recorded properly, thus making the recording of calculations inaccurate and at risk of losing data. In addition, this company also has not recorded the needs of raw materials used in the production process and has not recorded for production planning. The method used in making this application is the waterfall method. This application is built using Entity Relationship Diagram (ERD), Unified Modeling Language (UML), and uses the PHP Framework Code Igniter programming language and MySQL database. Application testing is carried out in this application using the blackbox testing method. This application has several functionalities, namely being able to record production planning, being able to calculate the need for raw materials used for production, being able to calculate the cost of goods sold, and being able to make profit and loss reports and reports on the cost of goods sold. By making this application, it is hoped that the problems that arise can get a solution with the application that has been integrated by the system.

Keywords: Cost of Goods Sold, Raw Materials, Production Planning, Entity Relationship Diagram, Unified Modeling Language, PHP, Framework Code Igniter, MySQL, Blackbox Testing.