

ABSTRACT

Ayam Taliwang Khas Eyang is a manufacturing industry engaged in food. In the production planning process, Ayam taliwang khas eyang follows the stock of products and materials in the warehouse, so it still often runs out of stock due to lack of attention to the status of products and materials in the warehouse. In the process of purchasing raw materials, Ayam taliwang khas eyang does not estimate the amount of material that must be purchased, which results in storage of material for too long, and impacts on the status of the material which eventually becomes stale and discarded. The recording of stale material has never been recorded, so it is not tracked whether it is properly disposed of or the material is reduced because the employee is taken. So far, all transactions carried out are not properly recorded, this has resulted in the slow pace of bookkeeping. This causes the losses obtained by the company to be less traceable. Based on some of the problems that have been explained, a web-based application can be built that can handle the procurement of stale fast material inventory using the Material Requirements Planning (MRP) approach. MRP is a method that determines what, when and how much material must be purchased taking into account the total costs incurred. To apply the MRP concept, there are several components needed : (1) Master Production Schedule (MPS), (2) Bill Of Materials (BOM) and (3) Inventory Status (IOH). This application has the functionality to produce information on the number of raw materials that must be purchased in each period and order schedules along with order documents (Purchase Order), can know the status of inventory of raw materials and produce journals for raw materials that are already stale, can display general journals and ledgers for ordering transactions and raw material inventories and presents reports on inventory of materials and products in the warehouse. This application is built with the PHP programming language with the CodeIgniter framework and MySQL for database storage. This application is tested using the black box testing method, so that the application made can run as expected.

Keywords: Raw Materials, Material Requirements Planning, Procure Perishable Material, Web-based application, CodeIgniter Framework