

ABSTRACT

Abstract: CV. Duta Mandiri is one of the companies engaged in manufacturing plastic injection. In the production planning process, CV. Duta Mandiri will order products the company has received orders from customers, so that CV. Duta Mandiri does not need a warehouse to store raw materials because the required raw materials will be directly processed into finished products. In that case, CV. Duta Mandiri conducted the production process using raw materials that were still ineffective. This is because there is still a lack of management in the planning of raw material purchases that are not scheduled. With these requirements, it can be used in the effectiveness of costs incurred when the supply of raw materials. Based on these considerations, a web-based application was made to manage production planning. Required Material Planning (MRP) based on order Due Date. The functionality of the application made can produce information consisting of the amount of raw materials that must be purchased from each period, the order schedule, as well as general journals and general ledger for the transactions of orders and purchases made. This application is built using the PHP programming language and CodeIgniter framework and uses MySQL as a storage database. This application praises by using the black box testing method to install the application that made it run properly.

Keywords: Raw Materials, Material Requirement Planning, Production Planning, Early Due Date, Web Based Application, CodeIgniter Framework.