ABSTRACT

APPLICATION OF CHEMICAL MANUFACTURING INVENTORY MANAGEMENT BASED ON CLIENT-SERVER IN PT KHARISMA TRIJAYA MANDIRI

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PT Kharisma Trijaya Mandiri is a company engaged in manufacturing textile chemicals. The intent and purpose of this research is to study the process of Inventory Control System which is still done manually into a computerized system and client-server based.

The method used in building these applications using the waterfall method, while the method used as a helper determinant prediction is EOQ (economic order quantity), ROP (reorder point) and safety stock. Existing analysis is based on the analysis of objects or object-oriented where the tools used to design the system in the form of UML (unified modeling language). While the database development using MySQL 5.0.51b with java programming language and supporting applications Netbenas 6.9.

This system has been designed to have an edge in helping users or employees to obtain information about the stock items, items of data, supplier data, customer data, sales data, purchasing data, data transfer of goods, adjustment of data item, the data value of each item EOQ, ROP data values and safety stock of each item. In addition, the resulting information can be more accurate and can avoid duplication of data. But this system there are many drawbacks in terms of facilities and display program that still need improvement.

Key words : inventory control, waterfall, database, EOQ