

ABSTRACT

PT Gudang Botol, a supplier of various types of plastic bottle packaging, faces operational challenges in inventory management as warehouse recording is still conducted offline using Microsoft Excel. This manual process carries the risk of data entry errors, discrepancies between recorded data and physical stock, and a lack of real-time inventory monitoring. Furthermore, weak inventory control due to the absence of precise parameters for reordering frequently leads to a high risk of stockouts. This research aims to develop a web-based warehouse information system to digitalize and centralize the recording of incoming and outgoing goods. The software development was conducted using the ICONIX Process methodology, enabling an iterative design process that is responsive to the dynamic needs of the users. The developed system focuses strictly on the scope of warehousing, encompassing item data management, the recording of inbound and outbound transactions, and stock monitoring. The result of this research is a structured warehouse information system capable of presenting inventory data in real-time. The system effectively assists the company in determining accurate reorder times, thereby minimizing the risks of both stockouts and overstocking. Consequently, reliance on manual recording is eliminated, and the operational efficiency of PT Gudang Botol is continuously maintained.

Keywords : Warehouse Information System, Web, *ICONIX Process*, Inventory Management.