DESIGNING A WEB-BASED INVENTORY INFORMATION SYSTEM (Case Study: SMA N 2 Wonosobo)

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ABSTRACT

SMA Negeri 2 Wonosobo has a wide range of facilities and infrastructure, which necessitates an integrated inventory management system. Currently, inventory data management is fragmented and unable to provide real-time information on borrowing and returning items, complicating monitoring, data retrieval, and report preparation. This study proposes the development of a web-based inventory information system to enhance inventory management at SMA Negeri 2 Wonosobo. The objective is to design and build a system that manages inventory data, item borrowing and returns, procurement, maintenance, and disposal in an integrated manner, while automatically generating inventory reports. The development follows the Waterfall methodology, encompassing needs analysis, design, implementation, and testing phases. The system is developed using PHP and a MySQL database, with user access rights appropriately allocated. Black-box testing results indicate that all system functions operate as specified. The system effectively presents inventory information and item usage history in a structured, real-time format. Consequently, the developed system improves inventory management efficiency and supports monitoring and reporting processes at SMA Negeri 2 Wonosobo.

Keywords: Information System, Inventory, Web-Based, Waterfall.