ABSTRACT

WEB-BASED DRUGS INVENTORY INFORMATION SYSTEM AT JIPANG PHARMACY, IN JIPANG VILLAGE

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The rapid development of information technology demands efficient information systems, especially in inventory management within a company. However, some companies, including Apotek Jipang, still use manual methods for recording drug inventory. This leads to various issues, such as errors in data processing, lengthy report generation, difficulties in stock control, and unsold drugs that have expired. Therefore, to address these problems, this study aims to develop a web-based drug inventory information system by implementing the First In First Out (FIFO) method in inventory management. The system development follows the Waterfall method, which consists of the stages of analysis, design, implementation, testing, deployment, and maintenance. The Waterfall method was chosen because it provides a structured and systematic development process, where each stage must be completed before moving to the next. This ensures that system requirements are clearly defined from the beginning, minimizing the risk of major changes during development. The system is built using HTML and CSS with the Bootstrap framework for the frontend, PHP with the Laravel framework for the backend, and MySQL as the database. The results of this study indicate that the developed system functions properly after testing using the Blackbox Testing method, in which 34 test cases were conducted, all of which were successful with a 100% success rate. With this system, drug stock management becomes more accurate and efficient, reducing the risk of recording errors and ensuring better stock control.

Keywords : Blackbox Testing, Drug Inventory, First In First Out (FIFO), Information System, Jipang Pharmacy, Waterfall Method, Web