

ABSTRACT

PT Joyo Langgeng Sejahtera is a shop engaged in the sale of agricultural drugs, seeds, and fertilizers that still uses a manual system for recording and transaction processes. This manual system causes various problems, such as errors in calculating transactions, inaccurate stock records, and difficulty in checking the expiration date of goods. To overcome these problems, a website-based cashier and stock management system was designed using the Rapid Application Development (RAD) methodology, which excels in rapid development and is flexible to change. The system also applies the First Expired First Out (FEFO) method to manage stock based on expiration dates, so that products with shorter expiration periods can be sold first to minimize potential losses. System testing was conducted using the Black Box Testing method and showed that all functions run according to the expected scenario. In addition, usability evaluation using the Heuristic Evaluation method on 10 principles resulted in an average severity rating of 0.35 on a scale of 0-4, indicating that the system is easy to use with some minor notes. Based on the results of functional and usability testing, the system has successfully fulfilled the aspects of accuracy of stock recording, efficiency of managing goods approaching expiration, and ease of use of the interface.

Keywords: *Website, Rapid Application Development (RAD), First Expired First Out (FEFO), Black Box Testing, Heuristic Evaluation.*