ABSTRACT

PT. Putu Abadi Sentosa is a company engaged in goods distribution and is currently facing issues related to inaccurate stock recording. The main problem lies in the gap between physical stock data and recorded stock data, which leads to operational inefficiencies and potential financial losses. This research aims to design a web-based Inventory Management System (IMS) using the Rapid Application Development (RAD) method to address the stock recording issues. The RAD method is chosen for its iterative approach and its speed in producing prototypes that can be tested and refined continuously.

The system design stages include data collection through observation and interviews, followed by data processing to determine the necessary features for the system. The next stage is the design of the web-based information system according to user needs and feedback, until the final result is a system ready for testing. System verification is conducted using the black box testing approach to ensure each function works as expected, and all tests are completed without errors. System validation is carried out using the User Acceptance Test (UAT) method, which yielded a score of 94%, indicating the system's suitability based on four evaluated characteristics: suitability, efficiency, interaction capability, and reliability.

The designed IMS includes key features such as recording of goods received, storage, retrieval, and stock reporting. The implementation of the IMS is expected to improve the accuracy of stock recording and provide more accurate and up-to-date information for inventory management.

Keywords: Inventory Management System, Stock Recording, Rapid Application Development, Information System, Website