

ABSTRACT

Telkom University's Faculty of Industrial Engineering (FRI) laboratory is an important facility that supports student learning and research activities. Studio tools in the laboratory are used for documentation, multimedia production, and other academic activities. However, recording and tracking the borrowing of studio equipment in the laboratory is still done manually through the Berita Acara Bukti Peminjaman (BABP), without an integrated system. As a result, the last location of the tool is often not known with certainty, resulting in the risk of losing the tool, delaying the next loan, and reducing the efficiency of asset management. This study aims to design a system for recording the loan of studio equipment based on Odoo online version 18. The system utilizes the Survey module to record loan applications and the Inventory module to record and track the movement of equipment from the warehouse to the borrower. With this system, it is expected that the history of tool movement is always updated and makes it easier for the laboratory to monitor the presence of tools. The system was developed with the Quickstart method which supports practical initial implementation. System testing is done through black box testing to ensure all features run according to their functions and usability testing to measure user satisfaction. The results showed that the designed system runs well functionally, as evidenced by the results of black box testing. However, usability testing showed a new user satisfaction level of 46%. This shows that the system needs further development, especially in terms of integration and automation of the recording process. This system is expected to improve transparency, efficiency, and effectiveness of studio equipment management at FRI Laboratory and minimize the risk of asset loss.

Keywords—Studio Equipments Borrowing, Odoo, Survey, Inventory, Aset Management