ABSTRACT

The management of goods and assets in the Laboratory of the Faculty of Industrial Engineering (FRI) at Telkom University is a crucial factor that affects the quality of service and operations. However, the lack of an integrated laboratory inventory system leads to various problems, including inaccurate data management and difficulties in tracking the location and condition of assets. This research designs an integrated information system using Odoo ERP, specifically the Inventory Management module with the Quickstart method. The aim is to enhance the efficiency and transparency of stock and asset management in the FRI laboratory. With Odoo ERP, goods reception recording becomes digital, stock can be quickly adjusted, and stock status is clearly visible. System evaluation through expert judgment and blackbox testing resulted in an average score of 4 out of 5, indicating that the system was well-designed and capable of managing recording, transferring, and adjusting stock more efficiently and accurately. Digitization has reduced manual errors and improved response to damage or loss of goods. This system also provides real-time stock visibility, which facilitates auditing and reporting. Thus, this system is expected to help FRI manage its inventory and assets more efficiently, transparently, and automatically, demonstrating the positive impact of information technology in improving student services and laboratory operations.

*Keywords — **Inventory Management, Goods and Asset Management, Odoo, Enterprise Resource Planning (ERP)***