

ABSTRACT

In the digital era, efficiency and effectiveness are essential in administrative services, including in the field of education. The Student Affairs Unit of the Faculty of Industrial Engineering (FRI) still manages facility loan through conventional processes, which require time-consuming appointments and the use of physical documents. This study aims to design an Enterprise Resource Planning (ERP) system based on Odoo version 18 using the Quickstart method and the rental module. The facility loan system is designed to support the submission process, a multi-level approval workflow involving related parties, and includes features for tracking application status as well as monitoring the condition of facilities before and after use. System testing was carried out using integration testing, user acceptance testing, and user experience questionnaire with the blackbox testing method applied. The test results show that the facility loan system is expected to improve effectiveness by eliminating the need for physical documents and face-to-face approval meetings. Furthermore, the results indicate that the system can significantly improve time efficiency: while the conventional process typically takes around 6–7 days, the Odoo-based facility loan system is estimated to reduce the process to only 2–3 days.

Keywords— Enterprise Resource Planning, Odoo, Quickstart, Facility Loan, Blackbox Testing