

ABSTRACT

Effective administration of Student Organization activities in higher education requires an information system that extends beyond basic digitalization—one that ensures seamless integration to support efficiency, accuracy, and accountability across documentation, Approval, and reporting workflows. At the Faculty of Industrial Engineering, Telkom University, these processes are still managed using Google Sheets, a platform with limited capabilities in data integration, Approval flow automation, and Input validation. Such limitations hinder revision tracking, User accountability, and centralized document management.

This study presents the design and implementation of an integrated monitoring system for Student Organization activities using the Odoo-based Enterprise Resource Planning (ERP) platform. Odoo was selected for its modular structure, open-source flexibility, and adaptability to institutional requirements. The implementation follows the QuickStart methodology, incorporating the Approval module for managing proposals and accountability reports, and the Accounting module for recording and tracking funding activities. The development process consisted of Kick-Off-Call, Analysis, and Configuration stages, with system validation conducted through Integration Testing, Blackbox Testing, User Acceptance Testing (UAT) and User Experience Questionnaire (UEQ).

The results indicate improvements in administrative efficiency, acceleration of Approval workflows, and strengthened data consistency and traceability. This research contributes to the structured digital transformation of Student Organization administration and lays the groundwork for sustainable process integration at the faculty level.

Keywords — Enterprise Resource Planning (ERP), Odoo, QuickStart, Student Organization, Faculty of Industrial Engineering