

ABSTRACT

Accurate and up-to-date academic data management is a crucial factor in supporting the efficiency of campus information systems, particularly in the administration of internship recruitment processes. Talentern, a digital platform developed to centrally manage student internships, requires reliable data integration from Telkom University's main academic system, IGRACIAS. The main issues encountered include delays in data updates and inconsistencies in student and lecturer information, which can hinder the internship selection process and decision-making by industry partners. To address these problems, a data synchronization feature was developed in the Talentern application, enabling data updates through API integration with IGRACIAS. As an alternative when the main system is inaccessible, a manual data import option is also provided via an Excel template. Each synchronization and import process is equipped with validation, logging, and notifications in case of failure or data duplication. The system was developed using a structured approach, with careful consideration of its ability to handle increased data volumes in order to reduce server load, maintain application performance stability, and facilitate monitoring by system administrators. The result of this development is a reliable, flexible data synchronization system that minimizes manual intervention in academic data management. This system is designed to improve the consistency of information in the Talentern application and to accelerate data integration between the campus's internal systems and the digital internship platform. It is expected that this development will make a meaningful contribution to enhancing the quality of academic information services and supporting the smooth implementation of internship programs within the Faculty of Applied Sciences at Telkom University.

Keywords: Data Synchronization, Centralized Academic System, Student Internship, API Integration, Talentern, IGRACIAS