

ABSTRACT

In today's digital era, the management of capstone design or final projects in higher education institutions is still often conducted manually and separately across study programs. This leads to various problems, such as irregular supervision workflows, delayed communication between students and supervisors, and difficulty in monitoring the progress of the final project. The main issue addressed in this study is the absence of an integrated system capable of managing the entire capstone design process efficiently and comprehensively.

The proposed solution is the development of TAKU, a web-based capstone design management information system that enables both lecturers and students to manage final project processes in a centralized and real-time manner. The system provides features such as topic submission by both lecturers and students, group formation, supervisor selection, project supervision, and evaluation.

Test results show that TAKU performs well functionally and provides a positive user experience. Based on testing using Katalon Studio, most of the main features could be executed automatically, although minor technical issues were found in the dropdown element. In terms of usability, respondents stated that the system is user-friendly, intuitive, and capable of accelerating final project management processes. Therefore, TAKU is considered effective in supporting a more structured and efficient capstone design management.

Keywords: *Capstone Design, Final Project Management, Web-based System*