

ABSTRACT

Student competition management at the Faculty of Applied Sciences (FIT), Telkom University, currently faces challenges due to fragmented and unstructured processes. The reliance on various separate platforms for information dissemination and participant administration leads to the risk of data errors and creates monitoring difficulties for the FIT Student Affairs department and Competition Admins. Therefore, this research aims to develop a centralized web-based application for student competition management, with a focus on the Competition Admin and Student Affairs modules. The application was developed using the System Development Life Cycle (SDLC) method with the Waterfall model and built using the Laravel framework. The resulting application provides features for Competition Admins to create and manage competition details, handle participant data, and conduct assessments, while the Student Affairs module serves to verify, monitor competition activities, and manage overall student data. Based on the results of black box functional testing, it is concluded that the developed application has successfully met all functional requirements, operates as designed, and is considered valid for use.

Keywords: competition management, information system, web-based application, competition admin, student affairs, Laravel.