

ABSTRACT

Student Activity Units (UKM) play a vital role in supporting the development of soft skills, creativity, and organizational capabilities among university students. However, in practice, many UKMs still manage membership data, activity documentation, and administrative processes manually, leading to various challenges such as inefficiency, limited information access, and lack of transparency. Therefore, this study aims to design and develop a web-based UKM information system to assist students, UKM administrators, and student affairs staff in managing all organizational activities digitally and in an integrated manner. The system development follows the Waterfall methodology, consisting of requirement analysis, system design using UML, implementation with the Laravel framework, and testing using Black Box and User Acceptance Testing (UAT) methods. The system features include membership registration, event publication and registration, documentation uploads, certificate management, and role-based dashboards. Additionally, Search Engine Optimization (SEO) techniques are implemented to enhance website visibility and facilitate open and transparent access to activity information. The testing results indicate that the system meets functional requirements and is well-received by users. This information system is expected to serve as an effective digital solution to improve efficiency, professionalism, and active student participation in UKM activities at Telkom University Jakarta Campus.

Keywords: Information System, Student Activity Unit (UKM), Website, Waterfall, SEO, Laravel.