ABSTRACT

The issuance of the Certificate of Graduation (Surat Keterangan Lulus/SKL) is an important part of the student graduation administration process. However, the SKL application process at the Faculty of Science and Mathematics, Diponegoro University, is still conducted using paper forms, requiring students to come to campus to submit documents and check the status of the SKL issuance in person. This results in inefficiencies in terms of time, effort, and information transparency. To address these issues, this study developed a web-based SKL application system using the Scrum method. During the requirements gathering stage, a total of 46 user stories were collected and used as the foundation for designing product backlog and determining the features to be implemented. The application was developed in four sprints, each lasting ten working days. The Scrum approach provides flexibility in adapting to the dynamic needs of stakeholders and enables iterative evaluation and continuous system improvement. Stakeholder involvement was facilitated through the requirements gathering process and sprint reviews, allowing development outcomes to be validated quickly. Several main features successfully developed include SKL submission by students, submission verification by staff, and submission status tracking. Application testing was conducted using the black box method based on the definition of done, with a total of 167 test cases. The results show that the application successfully meets the requirements and functions in accordance with the specified specifications.

Keywords : SKL Submission Application, Web-Based Application, Scrum