ABSTRACT

The implementation of Work Practice and Community Service at the Faculty of Industrial Engineering, Telkom University, encourages the development of reporting using the KPPM application, especially because the process is still conducted manually. This study aims to develop a web-based reporting module designed to enhance ease and clarity in the KPPM reporting process. This module was developed using the *Iterative Incremental* method, which allows the system to evolve gradually through a series of iterations that continuously improve upon each other. In the initial stages of development, basic features such as daily report submission and report verification by supervisors were prioritized to meet the basic needs of users. As development progressed, additional features such as search filter options were introduced to address the more specific and complex needs of users. The system was tested using a blackbox testing approach, which aims to ensure that each developed function works according to specified requirements. This testing was conducted without knowledge of the system's internal structure, focusing solely on the input and output produced. Additionally, scenario testing was applied to evaluate the system's performance in various real-world usage scenarios and the report verification process by supervisors. The test results indicate that the system functions well and meets user requirements. This reporting module development is expected to make a significant contribution in supporting students, supervisors, and administrators in carrying out KPPM reporting tasks in a more structured and accessible manner, while ensuring that all relevant information is managed properly.

Keywords: Work Practice Community Service, *Iterative Incremental*, Blackbox Testing, Scenario Testing.