

THE ANALYSIS OF ACADEMIC INFORMATION SYSTEM IN DIRGANTARA MARSEKAL SURYADHARMA UNIVERSITY USING ISO/IEC 25010 STANDARD

ABSTRACT

The development of Information Technology (IT) leads into the development of better information service in education world. The Aerospace Air Marshal Suryadarma University (Unsurya) needs to improve the information system for the students. So that it needs to do a software quality test in SIAKAD and to ensure the feature and the function run well. It has a goal to know the quality of a software by testing from functional suitability, performance efficiency, compatibility, security and maintainability standardized by ISO/IEC 25010. It is done to improve the quality of academic information system to be better. This research result has an advantage to give an advice for the company to maintain or improve the software quality.

This research analyzed the software quality insurance of academic information system in UNSURYA by testing the aspects from main menu such as transcript, study plan, lecturer's evaluation of learning activity, the print out of exam card, the consultation of academic supervisor, consultation from Head of Study Program and students' financial. The assessment uses 5 characters out of 8 characters based on ISO/IEC 25010 (Pambudi, 2016). The characteristic used is Functional Suitability, Performance Efficiency, Compatibility, Security and Maintainability.

The results of the research are (1) based on the suitability functional and efficiency performance testing using black box in UNSURYA SIAKAD system, it runs well although some functions don't work well. (2) The result for compatibility in SIAKAD UNSURYA, it works in line with the browser in the desktop or mobile. (3) Based on the security test using audit, it results the value 90 (B) with 1 medium risk and 9 low risk. (4) Based on the maintainability test, it results SIAKAD which is able to give a system needed by the students which has 89,7% level of user friendly.

keywords: academic information system, ISO/IEC 25010, quality insurance.