Abstract

ITS Academic Information Systems (ITS SIAKAD) is an academic activity management system that is owned by the Institute Teknologi Sepuluh Nopember Surabaya. Nowadays, SIAKAD ITS does not have standard guidelines which prevent good maintenance operation. One drawback of the maintenance is the incomplete process of identifying and analyzing the changing needs of users. This resulted in reduced user satisfaction and decrease the ability of the system to support the course of business processes.

This research presents quality measurements based on characteristics of functionality for SIAKAD Assessment Module using a quality model of ISO / IEC 9126. From the results of the quality measurements, recommendation of systems development is designed and then implemented through reengineering process.

The data obtained from experiment performed in this final project show that re-engineered system has more complete functionality and documentation than the original system. Reengineering approach from quality model ISO / IEC provides increased value of 0.121 for the quality characteristics of functionality.

Keywords: academic information system, quality model, re-engineering.
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