ABSTRACT

One part of the assessment (evaluation) process of the quality and feasibility of an university or study programs is preparing accreditation forms. Preparation of accreditation forms uses instruments provided by BAN-PT. This preparation uses a new instrument, namely accreditation form instrument based on APS 4.0. There are two documents in the accreditation form instrument, namely LKPS and LED documents. LKPS document consists of eight main performance indicators and LED document consists of nine main performance indicators. Accreditation forms consists of a lot of data and its process is still done manually so it takes a long time to collect data and prepare reports. Preparation of accreditation forms requires system that manage data for each of the main performance indicators in LKPS and LED. Therefore, the objectives of this Final Project are: 1) to create an accreditation system application that processes data and reports the results of LKPS and LED data, and 2) to test the accreditation system application using the black box testing method. To ease data collection and reporting, the system is implemented in a web-based application.

The system that manages the preparation of accreditation is called an accreditation system application. The application can process data and report the results of LKPS and LED data. The accreditation system application implements relational algebra with a union set operation and an APS 4.0 assessment matrix so that ease users to prepare accreditation, especially on the LKPS menu. Reporting the results uses feature of the excel file export on the LKPS menu and a pdf file on the LED menu. The accreditation system application is tested by using the black box testing method. The test results show that the functions of this application's features work properly so that it can be used by users to prepare accreditation.

Keywords : APS 4.0, *Black box testing*, *Accreditation System*.