

ABSTRACT

The final project is a compulsory subject for students who are pursuing undergraduate studies (SI), as a graduation requirement. The Final Project is divided into two parts, namely Final Project I and Final Project II. Final Project I process is assisted by the Final Project Management (Ta-Proposal) application, while for the Final Project II the process is assisted by igracias. The final project management application facilitates several processes related to the Final Project, including submitting topics, plotting supervisors, plotting examiners, and uploading desk evaluation files. There are other processes related to Final Project I which are still carried out manually. The process is the guidance process which is carried out using word/pdf files, as well as the desk evaluation assessment process which is managed using a spreadsheet. In this final project, the researcher discusses the maintenance process in the final project management application to facilitate the process that has been mentioned. The method used in maintenance is iterative enhancement with the result of a proposed modification which are addition of assessment module and guidance module. The proposed modifications are then built using the incremental model method. The final results of the study were tested using black box testing, system usability scale (SUS), tools sonarqube and user acceptance test (UAT). Black box testing shows that the built features are in accordance with the expected input output. The SUS test is divided into two, which are lecturer and student questionnaires with results of SUS scores are 68.75 for lecturer and 69.431 for student. The results of the SUS test have met the minimum criteria for the SUS score of 68. The test results using the sonarqube tools show the results of reliability at level C, maintainability at level A, and security at level A. Then for the UAT test the results are 85.5% meeting the criteria for the UAT score level very high with the criteria of 80%-100%.

Keywords: *Iterative enhancement model, Incremental, Web development, Blackbox, System Usability Scale, Sonarqube, User Acceptance Test.*