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5. Report

5.1 Proposed Executive Summary

Nowadays, the information technology system has been rapidly evolved in teaching and learning process. There are four main parties in charge in the final year project (FYP) who are the students, coordinator, supervisors and panels. The FYP coordinator is the person who is responsible to coordinate the communications between all the players and manage all the FYP process starting from the registration until the final grade. Currently, all the tedious process is done by manually and is not centralized. Furthermore, the existing approach of FYP management process has not been supported by a central electronic technology based system. Aligned with the rapid outgrowth of current technology, the development of Online Project Evaluation and Supervision Systems (oPENs) is one of the possible solutions to upgrade the FYP management process between all parties in FYP process and enhance the student learning experience. Development of the system will be implemented using Rapid Application Development (RAD) methods that involve four phases which are the requirements planning, user design, construction and implementation. This research proposes a OPENS that integrates supervision process and knowledge sharing activities for course code EEE358 and EEE368, which are taken by student of Diploma in Electrical Engineering (DEE) in semester 4 and 5. The oPENS will be customized to suit for each person in charge in the FYP systems including the students, supervisors, panels and coordinator. The oPENs will cater the manually process such as registration, grouping, supervision and assessments by the panels and supervisors. One of the unique of the oPENs compared to the existing system is to offer students grouping part and selection of theme for FYP title. Moreover through using the oPENs, they can access the all information regarding the FYP at anywhere and at any time. Then, the system will be evaluated to identify the usability towards FYP management process.

5.2 Enhanced Executive Summary

The use of online management systems has been progressively developed and adopted by most management in higher learning institutions, schools, and office in the public and private sectors as well as in business management. The developed system can facilitate all process management and thereby benefit many organizations and individuals involved. But before applying a system, usability testing should be made so that all the problems and errors can be identified prior to implementation. This paper analyzes the survey results about the usability of an online management system which is being developed: Online Project Evaluation and Supervision System (oPENs). Currently the system has partially developed a few processes in managing FYP such as submission of project approval forms, weekly reporting management process, and group registration process. For the next step, response from system users is needed so that this system can be completed by better fulfilling the features required by all users in addition to identifying problems that could arise before this system is implemented. To identify the system performance and to obtain lecturers' responses about this system, a usability test is carried out where lecturers need to explore the system practically and answer the questionnaire in the end. There are three usability testing components that have been highlighted in the survey questions i.e. system appearance and interface, user-friendliness and system efficiency. During the system testing, Think Aloud method has been applied whereby the respondents are free to give any comment or suggestion for the system improvement. Most of the respondents strongly agree that this developed system can assist in the FYP supervisory process and also greatly assist coordinators in ensuring the FYP process runs smoothly. There is also a few suggestions that has been listed for the system's improvement.

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