ONLINE ENTRANCE EXAMINATIONSMART-SCHEDULER

AND ANALYTICS SYSTEM

A Thesis Proposal Presented to the Faculty of the College

of Education of Rizal Technological University

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ABSTRACT

This study intended to find out the level of acceptability of the online entrance examination smart-scheduler as according to the iso 25010:2011. Specifically, it sought to answer the following problems on what are the developmental stages are involved in Online Entrance Examination Smart-Scheduler; what are the profile of the evaluators according to developer, designer and user; what is the level of acceptability of the OEESS in terms of reliability, security, functional suitability, usability, compatibility, portability, performance efficiency and maintainability; what improvements may be integrated to enhance the OEESS considering the end-users feedback.

The researchers used developmental method of research. 40 respondents were employed in this study. The highest group of evaluators are the users. Agile method is used for the developmental stages of the OEESS. In terms of the level of acceptability the evaluators rated the system as acceptable with a weighted mean of 5.81. The system is good and convenient to use. It will be an ease for the target users in applying for the admission test. The system must improved in terms of speed and must anchored with the needs of the target users. As a whole, positive feedbacks were given.

CHAPTER I

PROBLEM AND ITS BACKGROUND

This chapter presents the problem and its background. It includes the introduction, the theoretical framework, the statement of the problem, the significance of the study, scope and limitation/delimitation and the definition of terms.

Introduction

One of the remarkable and much known products of technology advancement is the conversion of a manually-operated system into an automated system. Automation produces a great impact in the lives of men, particularly in the field of industry, business, medicine and education (Williams, 2012).

The Rizal Technological University is an educational institution that provides services to the community, stakeholders and more particularly to the students. The fact that the non-stop operation of the school starting from the admission to graduation requires money, labor and time.

In terms of the admission of the students, the school uses a manual way of preparing schedules. Applicants or examinees who choose to take their college journey in RTU Pasig seems to duplicate in number and so the administration finds difficulty in processing their admission. Based on observation, applicants go to the University and exert effort to fill up the application forms and come back to check the schedule the next day. As a result, time and effort are much consumed.

Being inspired by the online services and the duty to help the institution, the researchers are proposing an online entrance exam scheduler. This is system which may remedy and improve the present challenge on scheduling. This online entrance exam scheduler is a web based system. This will allow the end-users and administrators to access and to manage applicant's scheduling request.

According to Cabuenos (2017), a school web based system is important; it is the first contact that the people browse to search information of the school. Having a web based scheduling system may help the University particularly the Guidance Department and Student Registration Admission Services (SRAS) in scheduling applicants.

The proposed system features automated registration and smart-scheduling. It will provide calendar as to when applicants may apply. In developing the proposed system the researchers will use MySql for as it's database. PHP, JavaScript and JQuery for the back end-coding, HMTL5 and CSS3 (Cascading Style Sheet) for the front-end coding and graphic user interface.

Theoretical Framework

In this study, the researchers used the agile software development method. This method is an ease in developing the online entrance-examination smart-scheduler.

According to the ISTBQ EXAM CERTIFICATION (nd), agile software development methodology is an process for developing software (like other software development methodologies – Waterfall model, V-Model, Iterative

model etc.) However, agile methodology differs significantly from other methodologies. In English, Agile means 'ability to move quickly and easily' and responding swiftly to change – this is a key aspect of agile software development as well.
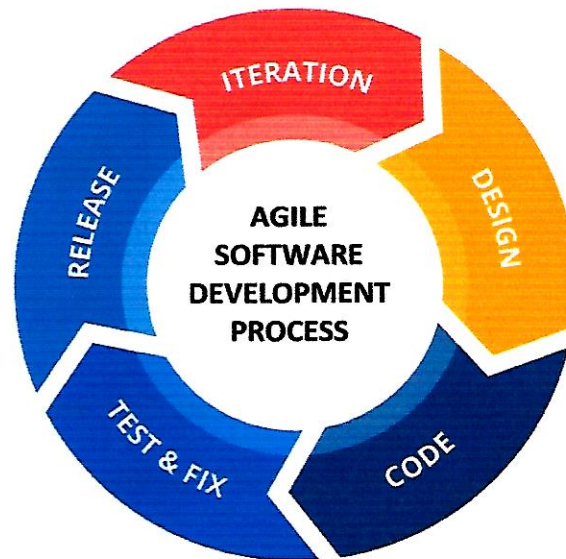

Figure 1. Agile Model

Agile model has five phases. First, is the iteration or the construction phase. It is the phase where the development team works to deliver working software based on iteration requirements and feedback. It is followed by the design in this phase where in the system that is being developed must define its scope and gather the necessary requirements needed. Then, users are asked to design prototypes based on their needs. After that, the coding phase starts, which focuses on the coding of the software system. Next, is the testing phase in which the system is being check if it is run well as well as the bugs, thus still involving the users