REVIEW OF ONLINE SYSTEMS

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ABSTRACT

Online testing system represents a new paradigm in the world of information technology today. Innovation and technological developments that occur from time to time makes it’s starting to get the attention of all parties, especially in the field of education. It can offer many advantages to teachers and students to use such systems as well as to meet the needs in the field of education it can also make teaching and learning more fun. But it is still not widely used at all levels, whether at the school, higher education or continuing education. This study was made to raise literacy studies related to the use of online testing system. It is intended to evaluate the factors that attract users to use online testing system. Studies focused on the effective use of the system in terms of ease of access to the internet, security system, testing and evaluation in education.

1.0 Introduction

Internet is a page that contains a variety of information in the form of text, graphics, animation, audio and video based on the tastes and creativity of the construction site (Arif & Jasmy, 2000). Māhidūn (2007) explains WWW deemed to be the backbone of internet technology nowadays that help facilitate the supply of information and training materials in education, particularly distance education, infrastructure, research, dissemination of information and electronic communication in the form of multimedia. Multimedia technology has tremendous potential for improving the quality and efficiency of teaching and learning (P & P) (Noor Azliza, Lilia Halim, 2002).

Given the clear definition makes teaching and learning activities are easier, fun and more comprehensive. Thus there are various methods used to use internet in learning aspects of which is in the field of teaching and learning using a smartphone (Shuaib, 2013), the portal online learning (Adnan, 2014) and the exam is for distance learning (Borromeo, 2013). The study we are doing is focusing on the effectiveness of the methods of online testing conducted on students in higher education in Malaysia.

The advantages of online examination conducted more flexibility in carrying out the examination to students and consistency in the scoring aspect. By using the online exam, students are not necessarily bound by the constraints of the study schedule. In particular, the student can take the exam online at different locations at a predetermined time and has a time limit that has been provided.
Advantages of formative assessment in examinations is online allows students to gain feedback or a real answer for and - immediately after all the questions are answered by the students.

2.0 Study Literacy

Luecht (2001) focuses its research on online testing in terms of the challenges that may be encountered. Among the challenges mentioned was the problem of identifying students who use the system as well as security risks, answered questions of different skills among students, problems in the implementation and evaluation.

Jasso (2008) study on e-learning in courses at the University of Perugia, known as e-Studium. The study consisted of two stages, through the application of students for online tests or tests that are made directly to students. The study took two years to four semester exams to graduate students in computer science. Their study focused on the effectiveness of the system used to students.

Xue (2006), adapted the online examination system using a mode known as "B / W Mode". Web servers are used to administer the tests and provide information to students. The main goal of the study is to reduce the use of paper and develop a test system that is safe to use. Among the features are placed only allowed to use the system after receiving applications from students to use it.

Ria Mae H (2013), review of the online examination system can be administered by lecturers manually or automatically. Lecturers can send questions via the web and students will answer and send their answers online via the Internet. By using this online examination system, grading process can be done automatically. Researchers conducted a survey on the nature and type of exam questions that will be included in the examination system is online.

Ria Mae H (2013), has received the form and type of exam questions, technology demonstration module Moodle Examination in Moodle has been developed and lecturers have tried to use the module Moodle Examination that discusses the features that they want to implement the system of examination on online. Online examination system is very useful to students and lecturers. Students do not need to go to a certain place to take their exams and grading system automatically in the existing examination system is online help lecturers give marks the next issue grades to their students.

Huang Darong (2010), studying the online examination system which has combined between Struts2, Spring and Hibernate. Elections to review the combined results are based on an important function in the examination system is online fields, besides the framework S2SH (Struts2 + Spring + Hibernate) have been adopted in this system by separating multiple levels of control such, the views, the control, the business the logic and level access to data in different components.

According to Huang Darong (2010), online examination system will also use the MVC pattern (Model_View_Controller) in the development of web systems to achieve loose coupling between stages. The database for this system has been equipped with delaminating system that will add to the strength of the safety control system together with authentication technology Login and power role. The results of this study, the framework Struts2 + Spring + Hibernate may be applied in the examination system is online. Struts2, Hibernate and Spring that has been developed has gained great merit.
3.0 Statement of Problem

Ade et. Al (2015) stated that the examination by the conventional method requires a lot of paper to be used. Besides, pengskoran using the same method requires a long time. This makes an additional burden for teachers to conduct examinations within the time available.

Ria Mae H (2013), stating that the lack of examination led to the examination difficult to implement given the number of students enrolled in higher education institutions is increasing. The situation will become increasingly difficult for mid-semester exam normally undertaken by lecturers without examination unit of the higher education institutions. In addition, problems with examinations involving number of students with a limited amount of space. This will cause frequent occurrence of the problem of duplication of examination so may cause the examination had to be postponed.

In a study conducted by Mohd Azizol, (2011), have found a new technology is introduced into an organization, should have conducted a study to determine whether the benefits obtained by the organization. Therefore this study focuses on evaluating the usability of the online testing system for students in institutes of higher learning in Malaysia.

4.0 Research Objective

• Identify the online examination system is more flexible and easier to use.
• Test the effectiveness of the online examination system in the measurement and evaluation.
• Assess students' acceptance of the system developed

5.0 Research Methodology

The research design depends on the purpose of the study (Maxwell, 2005). This study uses a quantitative approach carried out using a survey method. Injauan methods are suitable in this study because management reviews to be conducted focusing on usability testing system is online and based on the questions submitted. In addition, it only involves the collection of data and information from respondents only.

6.0 Sample and Survey Instrument

Target of this study is to involve undergraduate students from the social sciences and applied sciences. The target is of at least 6 universities from 20 public universities in the country. Estimated sample were at least 400 people. The instrument used is questionnaire using nominal data. This study using simple random sampling.

7.0 Pilot Study and Validity

This pilot study will be conducted at Kolej Universiti Islam Antarabangsa Selangor involving at - least 30 students from the faculty of education and 30 students of the faculty of information technology. Silidik question that has been built will be given to three (3) the confirmation panel of experts from the university national university of Malaysia, Universiti Teknologi Malaysia and Universiti Malaya.
8.0 Conclusion

The success depends on the use of information systems as far as the usability of the system in terms of its effectiveness in addressing the problems faced by institutions that use this system. This study is to identify the extent of this system is suitable for use in learning activities and learning in higher education. The target group of this research is to include institutions of higher learning in Malaysia. To study the effectiveness of using online testing system, further study should be conducted to observe the effects on academic achievement.

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