

Web Application for Online MCQ Test

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Abstract

An Online Examinations system content provider is to focus on creating the effective assessment for questions and focusing on exam's feedback delivered to the students. In the paper we present techniques that are patients to the elements of assessment process for question and answers submission, computerized grading, and feedback after submission. The examination system for computer is working on the instructions; it becomes easier for the coordination of human beings, commodity and computers in a modern organization. The administration and student who attend the Online Examination system so we can communicate with the system through the instruction, thus facilitating effective implementation and monitoring of various activities of Online Examinations are conducting the exams are scheduled on the basis and delivering result to that particular student. The details of students who attempt the Online Examination are maintained to the administrator.

Keywords: *Mcq test for Programming language, Server-client application, multiuser.*

Introduction

Online examination system is the one platform which allow students or trainers to do the exercise or tests through computer. It is overcome to the examiner workload of the manual system problem. The previous system is checking the answer sheets after taking test, waste the examiners time. That's why we develop the new project so that they check the correct answer and save the examiners time and carry the exam in an effective manner. The main goal of this online examination system is effectively evaluate the student exhaustively through a totally automated system that not only saves lots of time but also gives fast and exact results. For the students they give the exam according to their convenience time from any location by using Internet and there is no need of using additional thing like pen, papers, etc.

Online examination system helps students to offer a quick as well as easy way to available for the exam. It gives the results quickly after the exam. Student can apply the exam only with their valid username and password. The online Examination system contains the multiple choice questions and appropriate number of options. There are no limitations on number of options and it can be randomized question, so same set of question will not come to all students. More than one option can be right but the user can select only one option and this provides the time limit. The student can see their results after complete the exam. This application is help for the students who give the exam from far distance and which can provide surety of protection and easiness and other beneficial features to the student

Literature Survey

SIETTE: Guzman and Cornejo (2005) proposed an online examination system called System of Intelligent Evaluation using Tests for Tele-education (SIETTE). SIETTE is a web-based environment to generate and construct adaptive tests. It can be used for instructional objectives, via combining adaptive student self-assessment test questions with hints and feedback. SIETTE supports secure login and portability features. On the other hand, the other features: resumption capability, multi-instructor, random question selection, random questions distribution and random choices distribution are missing.

CBTS:(2013) developed a Computer Based Test System (CBTS). CBTS is a web-based online examination system developed to address issues such as lack of timing flexibility for automation candidates log-off upon expiration of allowed time, result integrity, guaranty, stand-alone deployment, need for flexibility, robustness,

designed to support the examination processes and overcome challenges framing the conduct of examination, auto-marking, auto-submission, and generation report of examination result[3].

EMS: Rashad Et. Al. (2010) proposed a web-based online examination system called Exam Management System (EMS). EMS manages the examination and auto-grading for students' exams and supports conducting exams, collects the answers, auto mark the submissions, and produce the reports for the test. EMS supports secure login, multi-instructor, and portability features. However, the other features: resumption capability, random question selection, random questions distribution, and random choices distribution are missing.

OEES (the online examination and evaluation system) is based on B/S structure, in which the process of examination and evaluation has been logically classified into four irrelevant sections by functions: content-displaying layer, application-running layer, data-operating layer and database (Ling 2002). The two abutting sections communicate through a standard interface. The content-displaying layer is a user interface system, which contacts with users directly. The application running layer, the core of OEES, realizes communication between users and database by program, such as the program of making up paper, testing, keeping time, and analysing results. The data-operating layer visits the database. It receives data requests from up-layer, sends SQL order to database, and then returns the results to the application layer.

HongmeiNei Math, Physics and Information Engineering College Online Examination is the essential parts among online education. It is effective as well as fast plenty and decreases the large number of material resources. Online examination system is develop based on web. This paper discover the principle of the design system, that represents the main function of the system analyses the algorithm of generating question paper, and talk about the security of the system.

Nor Shahida btMohd Jamail Abu Bakar Md Sultan Faculty Computer Science and Technology, Selangor, Malaysia Examination procedure is significant activities for institution to evaluate performs of student. Hence the quality of exam question will determine the quality of student develop by the institutions, also preparing exam question is challenges, long winded and take more time for instructor. Current technologies will help instructor to add the question banks in database. The issues raised was how the current technology would also help the instructor to auto produce the varies sets of questions from time to time without pertain about repeating and matching from the pass exam while exam bank thriving.

The Schramm looked at a e-learning web-based system that could simply offer and grade mathematical question with infinity patience. Therefore, it needs the capability for input and output of mathematical formula, the dynamic generation of plots of the generation of random expression and numbers. AI-Bayati and Hussein present and applied generic software of multiple kinds of e-exam package; this package of e-exam is oriented to hearing impaired (HI) person. Therefore, the exam material of this package is translated into language of HI person like sign language and figures spelling. The idea of generic software is to present an empty template to the teacher who would like to develop his required e-exam for the needful topic such as mathematics, language, science, etc. and desired set of exam kind such as multiple choices, matching between words, fill in the blanks, etc... The web-based examination system is an effective solution for mass education evaluation. Zhenming develop a novel online examination system based on a browser/server framework DCOM technology which carries out the examination and auto grading for objective question and operating question, such as programming, operating Microsoft windows, editing Microsoft word, excel and PowerPoint, etc. It has been successfully applied to the distance evaluation of basic operating skill of computer science such as the course of computer skill in universities and nation world examination for the high school graduate Zhejiang Province, China. The system is not reliable enough. Also it uses a specific technology not open source technology. The system is designed specifically for computer science students. It is not designed for general purpose students. Also, it does not support other languages. Lie He presented a web based educational assessment system by the applying Bloom's taxonomy to evaluate student learning outcomes and teachers' instructional practices in real time. The system performance is rather encouraging with experimental in science and mathematics courses of to local high school.

we have thus implemented HTML for server client interaction.[4]

Proposed Method

In these application students details are maintained efficiently admin has a facility to view the student details, edit the details, subject details and marks details are also maintained in this system. This has an enhanced facility.

SYSTEM DESIGN

The online examination system uses server architecture. At the client by using a web server where PHP and MySQL in the sever side are responsible for the preparing exams processes and save and return data from database.

1. Login system

Login system contain the following programs.

The information of each student will be sorted by the admin upon the registration process, enabling this way the particular student to log on the system without having to undergo the process of registration again. Logging is successful only if the input detail is matched with the database, else an error message is displayed.

2. Admin activities

Admin activities contain the following programs:

- Questions management

Managing questions contain two main operations:

- i. Adding Questions: Include adding two type of questions according to the admin desires either (multiple choices,true/false).
- ii. Deleting Questions: Include deleting questions of the two types of question (multiple choices,true/false)

- Students management

Managing students contain two main operations:

- i. Registering students: Include inserting the information of each student (student name, email id, password) to complete the registration process.
- ii. Deleting student: By inserting the (name and email) of the student to be deleted the admin can delete any student.

- Result management to show all student result

3. Student activities

Student activities contain the following operations:

- Give the exam

After the student logging in a group of questions will be displayed to student to start and give the exam.

- Give the result

After answering all the questions in a specified period of student will finish the exam and student degree will be displayed on the screen.

Conclusion

Online Examination System is a web application key concept of the system so that is to minimize the amount of paper and convert it into the form of documentation to digital system. It can be observe that the information is required to obtain with ease and accuracy in the computer system. The student with minimum knowledge about computer can be easily operate the system. The system also produced brief result required by the management.

The Online test System is developed PHP and sql fully meets the objectives of the system for which it has been developed. The system operated at a high level of efficiency and all teacher and user associated with the system understand its advantage. The System solves the problem.

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