Online Examination System Portal

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ABSTRACT

This Online Examination System is a software solution, which allows any industry or institute to arrange, conduct and manage examinations via an online environment. It can be done through the Internet/Intranet and Local Area Network environments. Some of the problems faced during manual examination systems are the delays occurred in result processing, filing poses a problem, filtering of records is difficult. The chance of loss of records is high also record searching is difficult. Maintenance of the system is also very difficult and takes lot of time and effort. Online examination is one of the crucial parts for online education system. It is efficient, fast enough and reduces the large amount of material resource. An examination system is developed based on the web. This paper describes the principle of the system, presents the main functions of the system, analyzes the auto-generating test paper algorithm, and discusses the security of the system

Key Words

JavaScript, PHP, MYSQL 5.5, Microsoft Windows XP/Win7/win8, Client-server Architecture, Browser Server Architecture

1. INTRODUCTION

The Online Examination System is an electronic application. This framework will help the college/Institution to assess the inquiry have different alternative with one right reply. The college/Institution can direct the online examination and report the outcome in a couple times. The examination office is in charge of the creating the inquiry paper and it would be totally secure. Online Examination framework give remotely access to understudies. It assists the inspector with reducing the work Of leading exam, checking answer sheets and producing result Customers can get to these databases and give exam. Here we utilize a customer server model. Executive offer access to instructor and understudies

1.1 MOTIVATION OF THE PROJECT

In customary framework directing exam is extremely repetitive work for analyst and educator too. The entire procedure of allocating exam and assessing their score after the test was done physically till date. Be that as it may, online examination framework is absolutely electronic framework. The framework goes for diminishing expenses connected with directing exams over a timeframe and accomplishing complete computerization of examination framework related assignments like enlistment, distribution of results, which prompts a high level of framework effectiveness. In the wake of experiencing huge numbers of reference papers at long last we are concluded that we can manufactured one examination framework that can be give easy to understand access to establish for directing exam and investigation of result.

1.2 LITERATURE SURVEY

a) Online examination is the crucial parts among online education. It is efficient and fast enough and reduces the large amount of material resources. Examination system is developed based on web. This paper describes the principle of the designed system that presents the main functions of the system, analyzes the algorithm of auto - generating test paper, and discusses the security of the system.

b) Thus the quality of the exam questions would determine the quality of the students produced by the institutions, also preparing exam questions is challenges, tedious and time consuming for the instructors. Current technologies help instructors to store the questions banks in computer databases. The issue arise is how the current technologies would also help the instructors to auto generate the different sets of questions from time to time without concern about repetition.

2. STATEMENT OF SCOPE

Online examination system can be used in private institutes as well as educational institution. As it is user friendly web base application it can be used anywhere and anytime. Every software may have some cases of bugs, errors, security related problems or system faults

The reasons for the introduction of online examination

a) **Conduct exams effortless**: Computer-based tests as a method of conducting an assessment enable users to manage an exam easily. The functionalities of an exam software such as user-friendly dashboard, multiple languages, support for multiple question types and formats, detailed reporting, automatic instant results help in smooth conduction.

b) **Reduce exam anxiety amongst test takers**: The flexibility associated with computer-based tests reduces exam anxiety among test takers as they can take the exam at any time of the day that coincides with their preferred sleep/ wake cycle.

c) **Promote social interaction between the test taker and experts**: An online environment promotes exam preparation with experts or

peers as they can review the course content together. **Online assessment** possible through exam software lays the real foundation of academic teaching as it facilitates discussion with teachers or other students.

d) **Prevents cheatings**: Cheating amongst the test-takers in the examination hall is one of the major drawbacks of pen paper-based assessment. Online examination managed avoids the possibilities of secretly using unfair means to get the right answers.

e) **Safe and secure data**: Various tools offered by exam software have enabled the assessment conducting agencies to manage the crucial data related to examination questions and test-takers safely.

f) **Reduce administrative burden**: Organizing and running exams online not only reduces an organization's administrative burden but also saves cost and time. Online examination with its objective to make evaluation massive but simple, cost-effective

Goals and Objectives are as follow

a) Online examination will diminish the rushed occupation of evaluating the answers given by the applicants physically.

b) Being a coordinated online examination framework it will decrease paper work.

c) To permit workforce to give extra time to understudies with handicaps.

d) To permit workforce to make tests and answer key.

e) To permit programmed reviewing and manual evaluating which can be recorded per test.

3. AREA OF THE PROJECT

a) The main objective of this online exam system is to reduce the work of conducting the exam.

b) The online examination system is a web based application which is useful all over the educational and corporate sector.

This online examination system includes the architectural components as Browser-Server architecture, Client-Server Architecture, Auto Question Generator System, Security, and Randomization.

4. SECURITY

As the system is closed mobile application, it is strong in security compared with the web based applications. The main security concerns of the system are the authentication, privacy, and information encryption.

a) *Authentication-* Only registered teacher and student users can login and use the system. The user may register with E-mail and device ID for user identification.

b) *Privacy-* The information of each user is only available to the authorized users and managers.

c) *Information Encryption-* Information exchange between server and the mobile clients via HTTP should be encrypted to avoid unauthorized tapping.

5. FUNCTIONAL SYSTEM REQUIREMENT

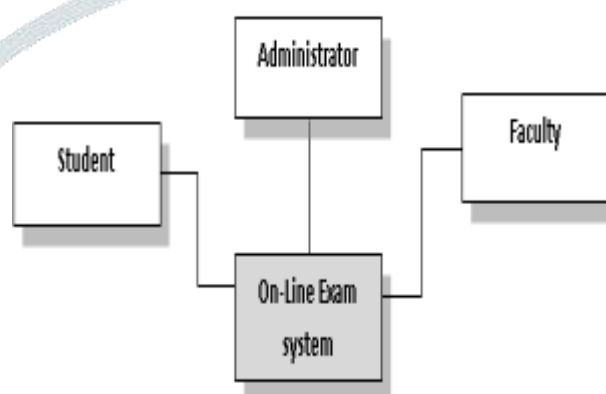This section gives a functional requirement that applicable to the On-Line Exam system.

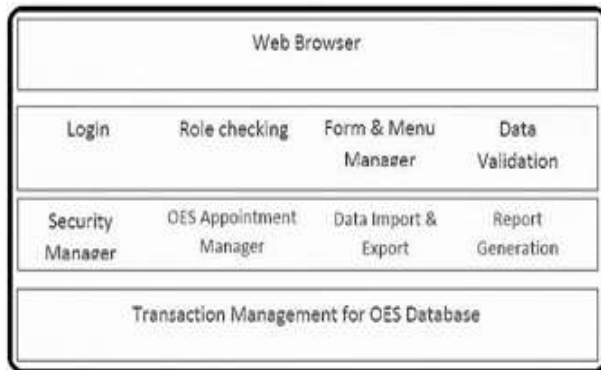There are three sub modules in this phase.
a) **Master Admin Module**
b) **Administrator module.**
c) **Examiner module.**
d) **Candidate module**

The functionality of each module is as follows:

a) *Master Admin Module*-The Master Admin collects all the results after successful completion of the examination and sends to the headquarters as and when required.

b) *Administrator module-*The administrator module will provide Registration ID for Administrator Module to conduct the online examination.

c) *Examiner module*-The database is prepared & loaded into the software. Selection for examination can be done language wise by the examiner. The results will be displayed immediately after completion of the examination.

d) *Candidate module*-The candidate will logon to the software and take his examination. He can also check his previous examinations marks and his details. The candidate will get result immediately after the completion of the examination.

This diagram represents what are the bounders and scope of On-Line Exam System project. It describes the main objective of the system and its entities involved.

6. ARCHITECTURAL DESIGN

CONCLUSION

In this seminar a brief idea of an android based online examination system is elaborated. A literature review of on same can also be done & conclude that, an efficient android based online examination system can be implemented by using PHP , JavaScript, MY SQL software.

We design a login page, exam mode page, selection of subject page & confirmation of exit page. Collecting the statistics about student results (e.g., degrees, gender, and age) enables organization and researchers to do some machine learning research to improve the method of teaching, exam, and analyze the behavior of the student's learning curve, determining the standard deviation, percent of attendance, class average, issuing certificate.

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