

Online Examination Portal

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Abstract - Today internet become reality and the usage of the internet become pretty much popular and there's tremendous increase of internet altogether over the globe for education purpose. The web Exam Portal is simple to use, full-featured and versatile Testing, Examination and Assessment web portal. It allows Administrators to provide different examination and question for registered students and members. The Examination Portal provides complete functionality of evaluating and assessing student's performance skills. The Online Exam Portal comprises of Question effectively blended with an entire set of Features. Using different means of the Exam Portal an instructor can assign group and base on the group examination is setup. It saves lots of your time, money and other expenses for any examine. In past days, there was a paper-pencil based test knows as offline exam. It's generally offered during a single day for all candidates. This can be a typical task for examination authorities and candidates to rearrange everything.

Keywords: Web Application, PHP, online examination portal, database, web server.

I. INTRODUCTION

The web application is designed for providing online examination to various institutes, colleges and Recruitment Company. Online Exam Portal provides easy way to handle the online exam. By using online method of examination institutes can complete the examination in a single day.

Online exam Portal provides various types of exam questions like multiple choice questions, multiple answer question, true-false, matching type questions and written answer questions. Online Examination Portal provides features to generate result after the examination finished. It also provides various format types of student results like pdf, excel etc.

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. All these work is finished by the machine. All the information is put away on the server.

1.1 Objectives

- The main objective of the project is to provide online options for various examinations.
- The project is to saves lots of time, money, energy and other expenses for any examination. It can arrange examination in a single day and save times for manually correction of exam sheet.
- Online Exam Portal can lead error free and secure and fast management system for examination.

1.2 Scope

- The main aim of the project is to provide various examinations in the form of online, to reduce the pencil-paper test and reduce the burden on the various examination authorities (teacher/instructors) and students.
- This provides better security and transparency in the examination.

II. LITERATURE SURVEY

Hongmei Nie Math, Physics and Information Engineering College 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.

Nor Shahida bt Mohd Jamail Abu Bakar Md Sultan Faculty of Computer Science and Technology, Selangor, Malaysia Examination process is important activities for institutions to evaluate student's performance. 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 and duplication from the pass exam while the exam bank growing.

III. PROBLEM SYSTEM

Existing system is manual one, everything is done by manually. It is paper-pen based examination. Teacher/faculty

need to prepare the question paper and then taking the hardcopy of the question paper for exams. Institutes need to maintain and store details of the examination like: student detail, instructor detail, date of examination, subject details and no of student give exam etc. After examination faculty need to check the answer sheet manually and its take lots of time for checking and generating result. Results records are maintain manually. Student also needs to go to particular place assigned for them to take examination.

IV. PROPOSED SYSTEM

This online examination portal provides everything online. All features of exam are in the form of online. This application is used to conduct online examination. Student can sit and give exam anywhere, just by visiting the online exam portal and using their credentials to login and give exam as per the assigned schedule. Question will be provided to students and they can give answer online, after examination answer will be corrected/checked and result will be generated immediately and result will also stores in database. This web application provide administrator to invite/add instructor to add new exams & add students for exam. This application also provide instructor to add new subject and based on that new question, modify question for particular exam and correction of the examination. This application provide secure examination environment by enabling web-camera recording during examination.

V. SYSTEM DESIGN

A system design is a method of describing the architecture and interfaces of a system. Systems design can be determined as a theory of system to product development.

5.1 System Architecture Design

The online examination portal uses client/ server architecture. At the client by using a web browser can connect via internet or local host with the server where PHP and MySQL in the server side are responsible for the preparing exams processes and save and return data from database. Figure 1 represents an overview of online examination portal.

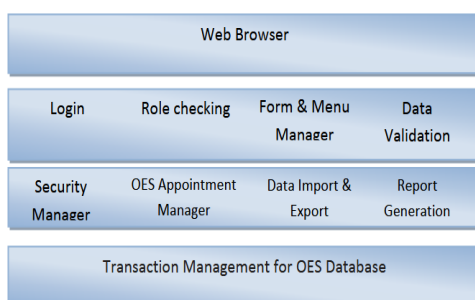


Figure 1: Architectural Design of Online Examination Portal

5.2 System Activities

Administration

This model is basically the main controller of the whole system and manages everything. Admin module basically has three functionality: Manage Student, Manage Instructor, and Result.

Manage Student: Admin has only rights to select which student can get registered for Exam Portal. Admin only can register the basic student details (only student id and name) after that only students can register based on the student id provided by the admin. It can also suspend any student if they are found doing foul conduct. Admin can also import student detail from Excel files and export them to CSV file if needed.

Manage Instructor: Admin manages the instructor; it provides an option to register the instructor directly or generate a registration link. Based on the registration link instructor can register them.

Result: Admin can view every student exam result and export and print in any format.

Instructor

In this module instructor manage everything, conducting exam and all, it also manage its own profile. Instructor basically has six functionality: Courses, Group, Question, Test, Result and Student.

Courses: Instructor has option to add new course for exam and based on the course sub topics can be added for exam purpose.

Group: Instructor has facility to add/invite students to the particular group for exam based on the group exam will be secluded to them. Instructor can view all group member and view group results.

Question: Instructor can add-delete exam questions. Instructor can manage question bank and set different types of question like MCQ, multiple select question, true-false, matching and question answer type question. It can also assign difficulty level of question and points for each question.

Test: Instructor assigns and manages the test. Instructor can add new test and manage that test and assigned questions like random question with different difficulty levels or fixed question. Instructor also provides option to join exam based on Joined group or directly by test link. Instructor can set the other setting of the test like test scheduled date and time, exam duration, test pass percent, when to show result and when to show the exam question answer.

Result: Instructor can view and manage the test result of students.

Student: Instructor can view student details and result of student who have given the test.

▪ Students

In this module student can register them based on the student id provided them from admin. Student can give test based on the assign group within the schedule time. Student can manage their own profile and view exam results.

VI. CONCLUSION

Online Exam portal is new generation exam system. Using open source language give more flexible but take more time to program. This online exam Portal can be easily used by various universities and school and company. This system is basically divided into three main subsystems (admin, instructor and student). The administrator function is to act as super admin of this system and maintain security and flexibility to the system. This web application provides easy way to save the exam results maintain student data in database and export in various format. It provides better security as it provides web-cm recording during exam and audio recording. This system is easy and flexible due to future maintains and can be handling separately.

VII. FUTURE ENHANCEMENT

The system scope is very wide and can be used anywhere as it is web based web application. Various institutes can use this system for conducting online exam. In this system there

are some glitches and bugs, in any system glitches are uncommon. In web-based program security problems can happen. So in future when this system will be used as software can be enhance the security and trustworthy of clients. There are also some time cases when test result may be not accurate due to some glitches which can be further improved.

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REFERENCES

- [1] Web Based online Secured Exam; B.Persis Urbana Ivy, A.shalini, A.Yamuna, International Journal of Engineering Research and Applications (IJERA) ISSN: 2248-9622 www.ijera.com Vol. 2, Issue 1, Jan-Feb 2012, pp. 943-944.
- [2] Downing, D., et al. (2000). Dictionary of computer and Internet.
- [3] Tallent-Runnels, M. K., et al. (2006). "Teaching courses online: A review of the research." Review of educational research 76(1): 93-135.
- [4] Al-Mashaqbeh, I.F. Al Hamad, A, "Student's Perception of an Online Exam within the Decision Support System", Course at Al al Bayt University Conference publication Pages: 131135 7-10 May 2010.
- [5] Papri Chakraborty (2012), "Developing an Intelligent Tutoring System for Assessing Students Cognition and Evaluating Descriptive Type Answer", IJMER, pp 985 – 990.

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