Online Aptitude Exam Generation System

[1]Hitesh Bhavsar, [2]Ramchandra Kawale, [3]Prof. Prashant Sawant
[1,2]BE IT Student, [3]Asst. Professor
1,2,3K J Somaiya Institute of Engineering, Sion, Mumbai, India.
[1]hitesh.b@somaiya.edu, [2]ramchandra.k@somaiya.edu, [3]ptashant27@somaiya.edu.

Abstract Online Aptitude Exam Generation system is a web based system. This System is smart enough to find the student level within short interval of time and to produce the accurate result. The main feature in this system is the concept of timer, timer is to be added to every question for analyzing the answer to set to the level of the paper. This system is proposed to deal with online objective type questions where the system analyze and studies the students answer depending upon the difficulty level and the time taken by the student to attempt that particular question. This system describes the conduction of online examination system for the objective type of exam. It also points out the way of attempting the question depending upon time taken and the correctness of the answer.

Keywords —Online Exam, Aptitude, Generation, paper, examination.

I. INTRODUCTION

Traditional system consists of paper- pen examination system. Here we need every faculty to first set the question paper and then assessment of the papers submitted by student .After the student starts the exam the faculty has to stand and keep a watch on the people. Here the storage required for each of the answer sheet of student in this traditional system is large and sometimes not feasible. Searching for any data from the data storage becomes very difficult and it can also end up having wrong result. This project assesses students by conducting online objective tests. The tests would be highly customizable. This project will enable educational institutes to conduct test and have automated checking of answers based on the response by the candidates.

II. LITERATURE SURVEY

In recent years, the online exam is been used in variety of educational measurement and corporate world for higher accuracy, easier manipulation and multi-functional. Though the interface for online exam is found to have good existence, in some circumstances such as much number of students, way of attempting the answer, timing etc, and the measurement results still needs more smart results for analyzing students' knowledge. Those results would be inputted into the computer for the post processing from the record generated. This is a smart way for analyzing the answer and the level for the student which shows the accuracy of student's knowledge. The online aptitude exam generation system based on computer web based vision is one of the solutions.

III. EXISTING SYSTEM

This brings us to the age-old discussion of keeping information in the form of databases versus keeping the same on sheets of paper. Keeping the information in the form of hard-copied documents leads to the following problems.

Lack of space – It becomes a problem in itself to find space to keep the sheets of paper being generated as a result of the ongoing discussion. The documents being generated are too important to be ill-treated.

Filing poses a problem – Filing the documents categorically is a time consuming and tedious exercise.

Filtering is not easy – It becomes hard to filter relevant documents for the irrelevant ones if the count of the same crosses a certain manageable number.

Reviewing becomes time-consuming –All the process done manually at the centers and all the records are maintained on the papers. So the maintenance of the record is very difficult in the departments and as well as it's very difficult for the workers to check the record.

IV. SYSTEM OVERVIEW

A. *Analyzing the question level*

The complexity to set the questions in a system and to access these questions on the students behavior of attempting the question right and putting them to the next level makes the system complex. Also this is done with the

student progress of giving correct answer in short interval of time, which decides the students level and analyzing the result. In the proposed system all question are divided into groups on the basis of level of difficulty. Once the student starts the exam the system will set the question level and set the timer for a particular question owing to move to the higher level by attempting the question right within that time interval set by the administrator for moving to the higher level. If the answer given by the student is wrong it remains at that level .We are introducing a timer to each and every question testing the capability of the student.
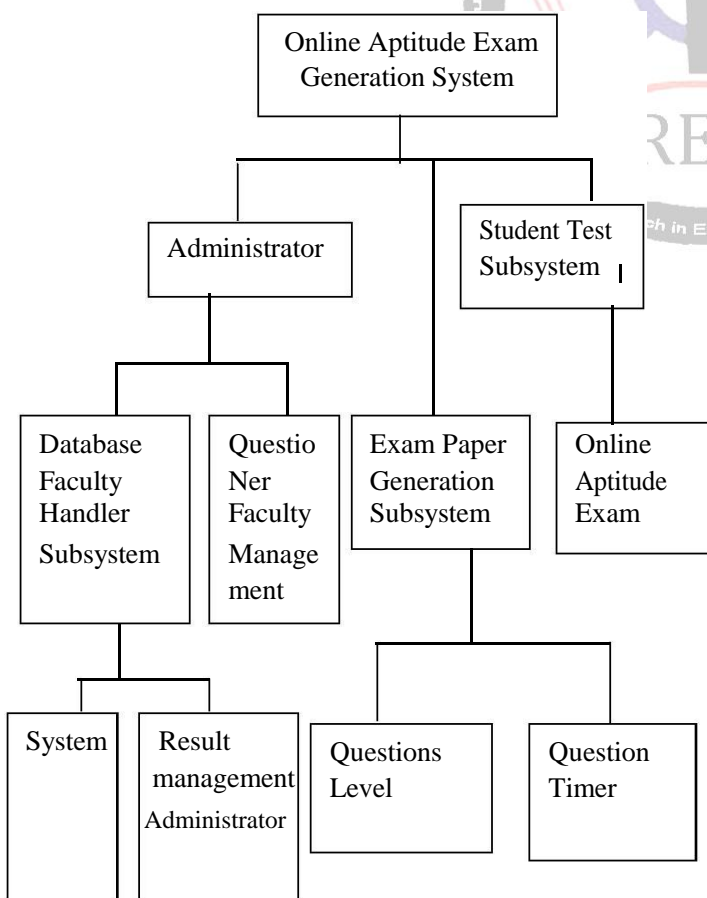
B. Timer Concept

Timer plays a very vital role for a student to attempt the exam, the way timer is used by the system to process the level is achieved under one of the following condition:-

a) Suppose when the student gives the right answer and within less time as specified by the questioner faculty for the particular question then the students eventually moves to the higher level.

b) Suppose that student has not given any answer within the time limit then the level stays at same position considering the answer to be wrong.

c) The final situation to occur to deal the system is that the answer given by the student is wrong and level is maintain to be the same for the student.

C. SYSTEM MODULES

Function modules are shown in figure below-

Administrator is the main module in this system which defines the database module and for the functioning of the system. The Administrator for this system has right for doing any change required in the database and setting the priority for the system.

A) Database Faculty Handler Subsystem - This part is the analysis of student's exam log.

Exam records are mainly used to view student scores and exam papers and print candidate exam results, in addition, we can see each student's answer sheet records of all the exam papers, and some basic statistical analysis can be made.

a) System Management - Role Management: this is administrator function, for establishing and assigning roles for the system & User management: this is administrator function, for establishing users ID and changing user passwords.

b)Result Management Subsystem - The Students data is stored in this module in terms of information and to retain that information when required.

B) Questioner Faculty Management Subsystem - This module concentrates on the questions to test paper pattern and defines the time level for the test.

I. Exam Paper Generation Subsystem -
This module constitutes on three Sub modules for the system viz.
i. Question Level Subsystem - Here the Level of the Question is to be decided by the questioner faculty such that depending upon the answer, system process to the level as declared.
ii. Question Timer Subsystem - The timer in this system depends on each questions and the way of answering that questions, in terms of time and accuracy which sets the student to move to next level as declared.

II. Student test Subsystem - The exam is set in this module which constitutes of all the latter subsystem as discuss. The student is provided with the login Id and password by the administrator to authenticate the student during exam and to store that result in given ID of the Student.

V. CONCLUSION

The timer used in this proposed system for each questions, makes the students way for attempt the answer in more tangled way. In this process of exam, a fruitful environment and improvement for the quality of student is achieved. In addition, online exam system can give the timely feedback of student learning and teacher teaching situation, which provides reference for the next step of teaching. So research and construction of Online Aptitude Exam Generation System is of great significance.

International Journal for Research in Engineering Application & Management (IJREAM)
Vol-01, Issue 01, APR 2015.

3

REFERENCES

[1] Huiping Wang, RuowuZhong Department of Computer and Information Design and Implementation of Online Exam System Based on Data Mining, IEEE paper.

[2] Wang Jingjing, Department of Computer and Information, Research On Intelligent Test Paper Of WEB-Based, IEEE paper.