Digital Quiz Generation and Examination Implemented Through Web Design

(Web Application)

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Abstract

This paper discusses about web application for generating digital quiz and examination which can be implemented by any institution. The main aim of this digital quiz system is to generate an automated question associated with specific subject which is effective, fast and bring down manual work. It also productively analyses students' performance and gives error free results with pictorial representation.

Keyword: Application, Pictorial representation, Automated

I. INTRODUCTION

As digital technologies are broadly used, and the development of many computer applications based on Internet, we design this application to allow students to take tests through system. It not only reduces work of faculty but also increases the quality of objective of examination system. Within a less time result is calculated. This system helps in handling exams and instance results in easy and systematic manner with 100% accuracy.This technique of presenting the examination will be remarkable in many educational institutes that help to analyze each individual student performance within no time. Till now everything was done manually whether preparing for exams or results and moreover it consumes much time to complete.

Students can start their quiz examination by just logging using there valid username and password, according to their perspective laboratory subjects. Multiple choice questions and appropriate options are generated. The questions are randomized so that to avoid malpractice. The test will be set down with definite amount of time, as the timer expires the test gets stopped and answers will be saved up to the questions that the students have attempted. Results are quickly generated on the screen, it can be viewed by faculty members and students anytime they require.

II. EXISTING SYSTEM

In this Existing system, the details of the students have to be manually entered. Lecturers have to frame questions and evaluate the results manually which is time consuming. The whole process is done by paper work and even data may loss. Keeping track of number of students registered and crosschecking the details of individual student in a month or year manually will be difficult. It is in fact tedious but also loss of money as it demands plenty of manpower.

III. PROPOSED SYSTEM

In Proposed System this web-based application is used to generate digital quiz. Within a given period, students can login in any individual system and start the test. Students will be allowed to choose the subject of particular laboratory. Questions are generated randomly. Evaluation is done by the system and results are displayed on the screen and also records are saved in a database for further use. 100% precise calculation is done. One more advantage is if a student tries to open new tab or minimizes the current page, tests get stop automatically and notification is received by admin. He will get all the details of students who tried to malpractice. Later on, he can deduct marks or block particular student to participate in next tests.

Proposed systems consist of following modules:

1. Login System
2. Admin/Faculty Activities
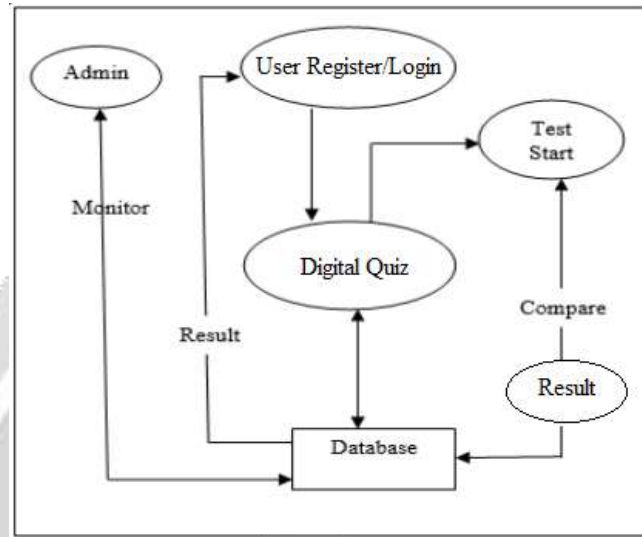3. Student Activities

Fig: Database DFD

1. Login system

- Login as admin/faculty

The admin/faculty name and password will be previously stored. One can login to the system whenever required to control admin/faculty activities. Database and login details should be matched, if not inappropriate message is popped up.

- Login as student

Student details are already saved during the registration procedure which reduces the work of registration process again. If the details given by the student does not match with data stored in database then access denied.

2. Admin/Faculty activities

Admin controls the admin activities such as assigning faculty members throughout the registration process.

The following activities will carried by faculty member Questions managing are done by the faculty members. It includes

- Adding and removing questions is done by the faculty which includes multiple choice questions based on the topics discussed in the class
- Results of the students will be notified to the faculty.

3. Student Activities:

- Take a test – As a student login and hit the "Test" button ,test will be started and random questions will be generated, they can proceed to take test.

- Obtain the result- After finishing the test with in a given time frame, the overall performance will be calculated and displayed instantly in the pictorial form.

IV. ADVANTAGES

- This system allows speed and efficient way to evaluate the test through computerized system that saves time and give instant results.
- It also over comes the problem of old method of taking test.
- The main advantage of using this application is that it gives high level of clarity that prevents manual process of giving test.
- Most digital quiz exams generate their results straightaway and it's continuously potential for the examiner to urge information on his results instantly.
- It can also cut back the workload of academics through the automation of check paper, marking.
- It reduces the probabilities of malpractice.
- Easy to store and redeem data.

V. CONCLUSION

With the utilization of this application, we are able to moderately conclude that: It can facilitate the authorization of the organization establishment to keep up the safety and integrity of its necessary information like record of attending, communication results, etc. the information shall instantly displayed on the screen. This system is simple and adaptable because of easy maintenance.

VI. FUTURE SCOPE

Scope of this system is improbably wide regarding of various manually test. This might be used not exclusively in establishment but conjointly personal institute .It may be used any place any time. No limitation that examiner must be present once the student start taking the quiz.

There are some variety of occurrences like virus, bugs within the knowledge that can lead to crash of a system therefore we are able to overcome this problem in future by using more assured and reliable software.

VI. REFRENCES

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