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Online Examination Application

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ABSTRACT:

Online examination system is a web-based examination system where examinations are given online. either through the internet or intranet using computer system. Research and comparison for different web examination system in the current individual field, proposed a set of design mode about general examination platform which apply in colleges and universities, research and analysis the key technology, and proposed improved scheme, made system being perfect.

1. Introduction

Today ,Online Examination System is considered a fast developing examination method because of its accuracy and speed. It is also needed less manpower to handle the examination. It is used to conduct assessment test, aptitude test, psychometric test, personality test, entrance exam and campus exams. Organizations can also easily monitor the progress of the student that they give through an examination[1]. As a result of this, the result is calculated in less time. It also helps diminishing the need for paper. Online examination project in PHP is very useful to learn it, According to today's requirement Online examination system is significantly important to the educational institution to prepare the exams, saving the time and effort that is required to check the exam papers and to prepare the results reports.

Nomenclature: web examination system, database, web server.

2. Literature review

[1] Online examination system is one of the method of taking exams which is doesn't require any kind of a piece of paper or a pen. It is the fast growing method to take exams over online. Speed and accuracy is the reason behind the famous of this method because speed and accuracy is the backbone of this system. Many researchers have already researched about online examination system and we have developed a online examination system to keep an eye on this researches as a reference and these all are the following:

[2] Zhenming et al (2003): They developed an online examination system based on web browser/server framework.

[3] SIETTE Guzman and Cenejo (2005):They developed a online examination system called as SIETTE; (System of intelligent Evaluation using Tests for Tele education).

[4] Ayo et a (2007):They proposed a model of e-examination.

[5] Jim and sean (2006):They justified the assessment can be taken in different ways.

[6] Zhenming et al (2003):They developed an online examination system based on web browser/server framework. Which supports some premium basic features, carriers out the examination and provide the auto grading system for objective questions and operating questions like programming, edit MS word, Power point, MS windows, Excel etc.

These are the really necessary keywords of any developed system. SIETTE Guzman and Cenejo (2005):They developed a online examination system called as SIETTE (System of intelligent Evaluation using Tests for Tele education).The above developed system supports the login and some basic features but doesn't supports the premium features such as random questions selection ,random choices distribution, resumption capabilities, random questions distribution. Ayo et a (2007):They proposed a model of e-examination. The software was developed in private university in Nigeria. The reason behind the developed such as software is to conduct the entrance examination for all Nigeria universities called JAMB(Joint Admission Matriculation Board).This software was designed and tested in Covenant university they were the private university in Nigeria. They found the software really helpful for conducting neat and clean with accuracy entrance examination. It is eliminates the problems that are associated with the traditional methods of entrance examination. Jim and se an (2006):They justified the assessment can be taken in different ways. First of all they made a e- assessment via internet and then the mindset has been done that we can enhance the e- assessment to a online examination system. And they thought that there will be a many different ways to take the assessment and e- examination. They continuously added the content and they took the shape of e- examination portal finally. Because
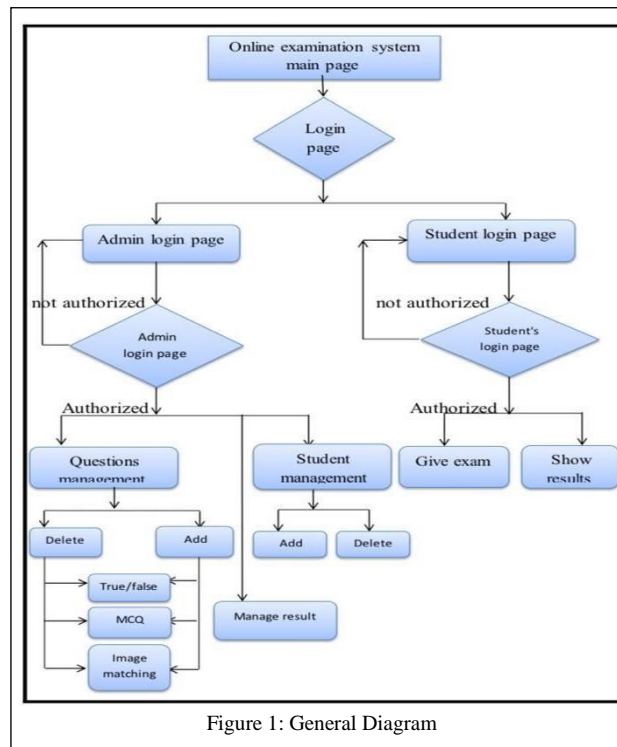
it is the far away different and accurate than of the traditional method to take any of the entrance examination or assessment. Computer based examination is one of the best and satisfied method of taking

3. System Design

Online Examination System is a web based application system used to create and evaluate examination. This system architecture consist of 3 sections:-frontend, backend and database server. For the design of the system we used interpreted programming language javascript, client side Ajax techniques, in order to send and retrieve data from the server, css for the styling of web pages and the relational database management system Mysql.

The whole system is divided into three modules: administrator module, teacher and student module.

3.1 **Administrator module:** The administrator module do the function of system management, add the registered information of the user to the system data base.

3.2 **Teacher module:** The teacher module includes test management module, automatic organising of examination paper, examination- paper management, paper analysis , result and so on.

3.3 **Student module:** The student module have login option to attend the exam and after completing and submitting the exam the result is immediately generate.

3.4 **Functionality of the System: Login:** For any student to be eligible for the examination, must be registered. During registration, student fill a form and also given login credentials i.e. a username, password. Logout: Logout enables the student to return to the login page, after writing the exams.

Figure 1: General Diagram

Create Questions: Create questions enables the admin to create the questions. The admin input the question, options and then input the correct answer and finally clicks submit. **View Result:** Once the student submit the test a score sheet that comprise the result can be viewed.

Timer: The timer was implement using AJAX. The timer enables student to see the time allocated to the exam. The timer is start counting from 1000 and decrement to 0 . Once the timer decrement to zero the system logout student.

4. Database Design :

In order to fully use MySQL server technology, it is essential to make sure that the database is well designed. The files names chosen to label all the tables created within the database attempt to reflect the table's purpose and, therefore, contribute to well-design system. The intimal step in designing was to decide, according to the requirements and specifications of the project, which tables should be created, and what type of they information each one should hold. The final design had taken from as explained in figure(2).

Table	Rows	Type	Collation
admin_selcter	1	InnoDB	utf8_general_ci
admnlgin	1	InnoDB	latin1_swedish_ci
arich	2,632	InnoDB	utf8_general_ci
imageadd	14	InnoDB	latin1_swedish_ci
mcq	16	InnoDB	latin1_swedish_ci
result	0	InnoDB	latin1_swedish_ci
std	4	InnoDB	latin1_swedish_ci
trfa	16	InnoDB	latin1_swedish_ci
8 tables	2,684	InnoDB	latin1_swedish_ci

Figure 2 database table

5. Advantage

Online examination system can make the student's life easier because they don't need any paper and pen for examination. It is eco- friendly and forward-thinking approach to daily processes is essential in a world where students can graduate into an environmental crisis caused by climate change. Students will imbibe these values over the course of their education. online examination can be effective and efficient. The students don't waste so much time to answer the questions because they only click on the best answer that is provided. Great features with this exam conducting system is that there is not any compromise with data security. Question paper leak in online examination is not possible at all. All can full believe on examination process over its security feature. In this online system, set of question papers are a lock in a security system an that will only open at the time of examination. The sheer amount of resources that can be used to set up a single exam is mindboggling — from teachers setting the test to administrators ensuring that all students receive enough copies of the exam paper. The online examination system removes many of these procedures and the related labor costs, which have a significant and positive impact on the bottom line of the method implementing educational institution. Another advantage of online examination is that we can know our scores just after the exam. Student can give online exam anytime anywhere. Report analysis can check anytime and can improve yourself. The major feature which adds up to the online examination, It is scalable over a larger region.

It can serve a larger audience and has the potential to do so. Sometimes, instructors can be very busy on a given day and do not have any time to check the exams. Online examination can solve this problem. The instructor does not need to check all of the exams. Online examination can do. It can be easily accessed 24/7 over the open test period. It can be timed to allow M minutes to answer N number of questions. It give immediate test feedback when a test is submitted. Students can take advantage of special media; video, audio, or pictures. Student can check their progress on a single click. This enables you to track the report and progress of a child just on a click. Improvement in a child is checked through a progress report made by the software.

6. Conclusion

This system aims at the popular examination system research at present, designing a set of common examinations for the college platform and providing a good condition for organizing all kinds of tests, and also have a great reference value for other colleges and universities.

7. References

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