SNAGNAY (Online Examination System)

Chetan Singh[1]

(chetansinghadgitm@gmail.com)[1]

Osheen[2]

(osheensingh222@gmail.com)[2]

Samar Gupta[3]

(samargupta114@gmail.com)[3]

Dr. Akhilesh Das Gupta Institute of Technology and Management, New Delhi.

Guru Gobind Singh Indraprastha University, New Delhi

Abstract— **Snagnay is an Online examination system. Snagnay is a web-based examination system where examinations are given online. Either through the internet or intranet using computer system. The main goal of this online examination system is to effectively evaluate the student thoroughly through a totally automated system that not only reduce the required time but also obtain fast and accurate results**.

Keywords—Web Application, Python, Django, Web Server

INTRODUCTION

SNAGNAY (Here Snag means 'glitches and Nay means 'No' or 'less') so aiming to have less glitches as possible, Online Examination System is considered a fast-developing examination method because of its accuracy and speed. It also needs less manpower to handle the examination. Almost all organizations today, are managing their exams by online examination system, since it reduces student's time in examinations. Organizations can also easily monitor the progress of the student that they give through an examination. As a result of this, the result is calculated in less time. It also helps diminishing the need for paper. 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. Online examination system helps the educational institutions to monitor their students and keep eyes on their progress. The best use of this system in Scholastic Institute and training centers because it helps in managing the exams and get the results in easy and an efficient manner.

LITERATURE SURVEY

Online examination system is one of the methods of taking exams which does not require any kind of piece of paper and pen. Online examination systems come with a lot of benefits including flexibility to take exam anywhere, cost effective, Increased Security, Remote invigilation, Immediate assessment reporting, reduce administration overhead, personalize service, Save Paper, save more time Speed and accuracy are the reason behind the fame of this method. The exams can be conducted wherever the candidate is present and will get the result with immediate logistics and precision. Designing a question paper digitally is relatively easy and reduce the chances of paper leakage. Online examination system also arouses student interest. Online examination system will give real time exposure in using tools online, it will give students a competitive edge over the candidates who are giving it offline. It is a boon for digital era and it is recognized previously by many scientists and researchers. Many different researches have focused on the subject of an online examination system this work can be represented as following:

SIETTE: Guzman and Conejos (2005) proposed an online examination system called System of Intelligent Evaluation using Tests for Tele-education (SIETTE). SIETTE is a web-based environment to generate and construct adaptive tests. It can be used for instructional objectives, via combining adaptive student self-assessment test questions with hints and feedback. SIETTE supports secure login and portability features.

On the other hand, the other features: resumption capability, multi-instructor, random question selection, random questions distribution and random choices distribution are missing.

EMS: Rashad Et. Al. (2010) proposed a web-based online examination system called Exam Management

System (EMS). EMS manages the examination and auto-grading for students' exams and supports conducting exams, collects the answers, auto mark the submissions, and produce the reports for the test. EMS supports secure login, multi-instructor, and portability features. However, the other features: resumption capability, random question selection, random questions distribution, and random choices distribution are missing.

Arvind Singh, Niraj Shirke, Kiran Shette 2011: The project evaluates the examiners by using the online examination system concept. The exams will be totally customizable. This system will check results automatically basing on students' answers.

CBTS: Fabula et. al. (2013) developed a Computer Based Test System (CBTS). CBTS is a web-based online examination system developed to address issues such as lack of timing flexibility for automation candidates log-off upon expiration of allowed time, result integrity, guaranty, stand-alone deployment, need for flexibility, robustness, designed to support the examination processes and overcome challenges framing the conduct of examination, auto- marking, auto-submission, and generation report of examination result.

PROBLEM STATEMENT

Since the traditional Examinations systems have many drawbacks such as time consuming, Difficulty of analysing the test manually, More observers are required to take exam of many students, Results are not accurate since calculations is done manually, The chance of losing exam's result is higher in current systems, Checking of result is time consuming since it done manually, Limitation of no of student can give examination at a time. with the development of information technology and use it in an orderly and properly helps to overcome the existing error in the manual system . Online examination system saves the exams information in a database, and this make it an easier way to give exam teachers can add theirs exams rules , and student can give exam in a totally automated system.

PROPOSED SYSTEM

Online examination system (Snag nay) saves the exams information in a database, teachers (or admins) can add/delete questions, set the correct answers, specify the exam period, register students, delete students, show questions for students randomly, calculate and show the final results for students.

A.) System design

Online Examination System (Snag nay) is a web-based application system used to create and evaluate examination. This system architecture consists of 3 sections: - frontend, backend and database server. For the design of the system we used interpreted programming language Python, 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.

A.1- Administrator module:

The admin can control the execution of the whole system where he/she can add courses, can modify teachers and students' data according to use. The main controller of whole Snag nay.

A.2- Teacher module:

The teacher module includes test Management module, automatic organizing of examination paper, examination-paper management, paper analysis, result and so on. The teacher can register and use Snag nay to take exams and give the instant results by adding courses and questions

A.3 -Student module:

The student module has login option to attend the exam and after completing and submitting the exam the result is immediately generate. The student can take exams and get the marks instantly and can know about the courses he/she is enrolled into etc.

A.4- Functionality of system:

✓ **Login system**: Login system contain the following programs.

– **Login as admin**: By using already stored admin name and password the individual can log on to the system any time he/she desires as an admin to manage the admin activities. Logging is successful only if the input detail is matched with the database, else an error message is displayed.

– **Login as student**: The information of each student will be sorted by the admin upon the registration process, enabling this way the particular student to log on the system without having to undergo the process of registration again. Logging is successful only if the input detail is matched with the database, else an error message is displayed.
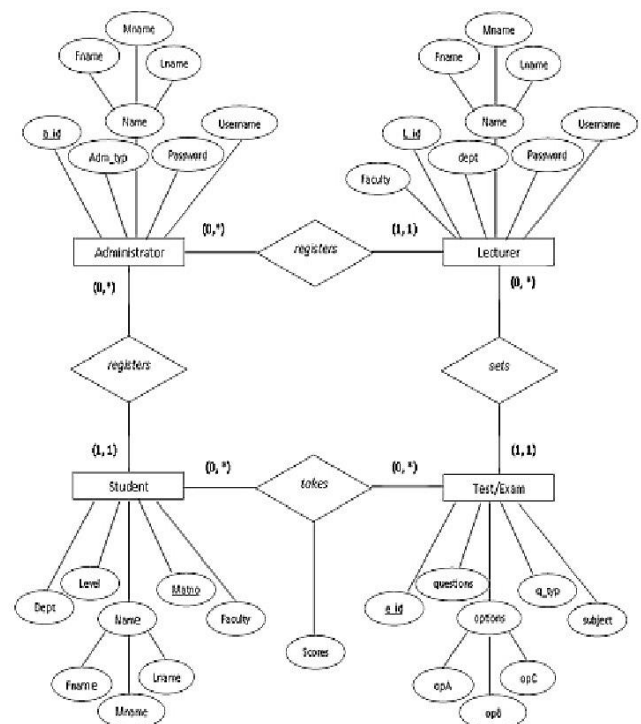

Figure a

– **Login as Teacher**: The information of each Teacher will be sorted by the admin upon the registration process, enabling this way the particular student to log on the system without having to undergo the process of registration again. Logging is successful only if the input detail is matched with the database, else an error message is displayed.

✓ **Admin activities**: Admin activities contain the following things:

- Add teachers and Students based upon their registrations.

- Can modify/ delete the data related to teachers and students.

- Can decide the number of courses and update them according to the need.

- Can Set the answers and questions also for additional reviews.

✓ **Students' activities:** students contain these main operations:

- Register Themselves: include inserting the information of each student (student name, email, and password) to complete the registration process.

- Give Exam.

- Get the scores for particular exams.

✓ **Teacher activities:** Teachers contain these main operations:

- Register Themselves: include inserting the information of each teacher (student name, email, and password) to complete the registration process. And only after getting approval by admin he/ she can join the institute to take the exam.

- Set Exam, add questions.

- Set the answers for particular exams.

B.) 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 information each one should hold.

C.) System Interface

Figure b. (Admin login of Snag nay)
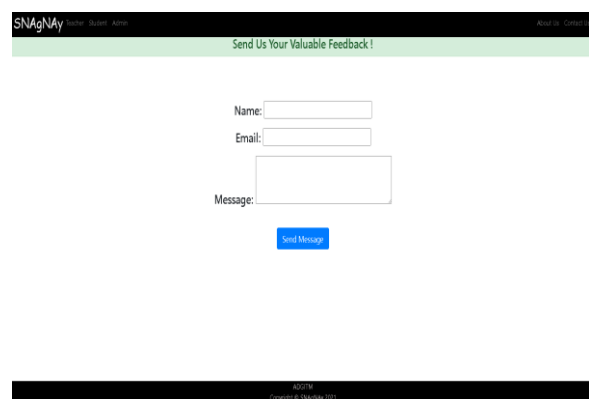

Figure c. (Student page)
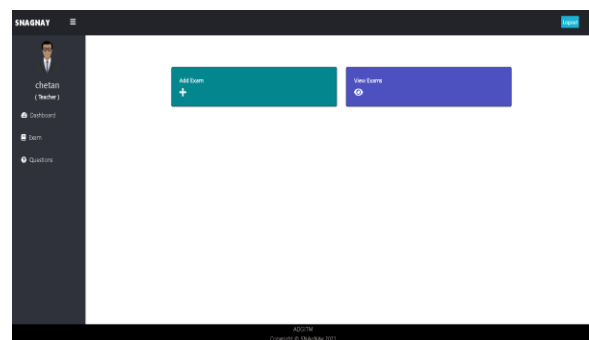

Figure d. (Feedback Page)
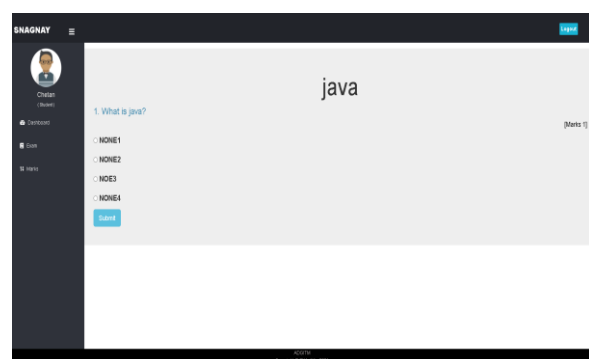

Figure e. (Teacher Login Page)
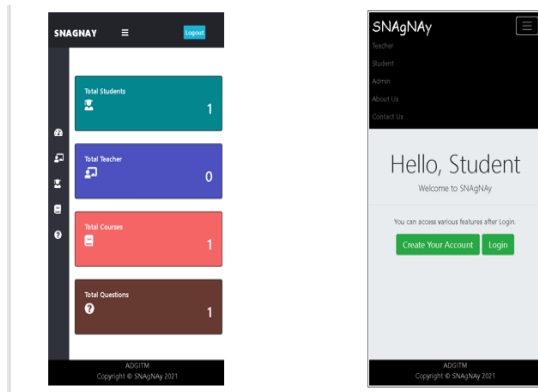

Figure f. (Student Exam Page)

Figure g. (Dash-Board of snag nay in Mobile)

ADVANTAGES

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 an 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 are 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 and that will only open at the time of examination. The sheer number 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 labour 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. 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. It can be easily accessed 24/7 over the open test period. It gives immediate test feedback when a test is submitted. 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.

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. Using an open-source language gives us more flexibility, but at the same time it required more time to be programmed. The proposed Online Examination System (OES) can be easily adopted by universities and institutions in order to make the exam more secure and more flexible. The system is subdivided into two main subsystems (student and administrator) that are designed to give the system maximum benefit by demonstrating carefully each subsystem service. The administrator's functions are clearly identified to be able to manipulate user's information such as add (register), delete users and managing the exam materials and content such as add, delete questions, Thus the proposed system is easy and flexible because for future maintenance and development because each subsystem can be handled separately without influence on other system.

REFRENCES

1) Li Yueru. Algorithmic Online Examination System Design[J].Fujian computer. 2009,1:66-67.
2) SWeaver, D., et al.. Evaluation: WebCT and the student experience. Evaluations and Assessment Conference (2005).
3) Tallent-Runnels, M. K., et al. "Teaching courses online: A review of the research." Review of educational research 76(1): 93-135 (2006).
4) International Journal of Emerging Technology and Advanced Engineering, Website: www.ijetae.com (ISSN 2250 -2459, ISO 9001: Certified Journal, Volume 4, Issue 3, March 2014) 660 Online Descriptive Examination and Assessment System Bhagyashri Kaiche 1, Samiksha Kalan 2, Sneha More 3, Lekha Shelukar 4 1,2,3,4 KBT College of Engg Nashik, (India) 2008.
5) WebBased 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, JanFeb 2012, pp.943-944943.
6) Challenges of Online Exam, Performances and problems for Online University Exam; IJCSI International Journal of Computer Science Issues, Vol. 10, Issue 1, No 1, January 2013 ISSN (Print): 1694-0784 — ISSN (Online):1694-0814. www.IJCSI.org