

## REVIEW ON: ONLINE EXAMINATION SYSTEM USING PUBLIC CLOUD

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**ABSTRACT** - *Time pressures leads to use of more efficient exam tools, such as online exams, instead of traditional paper exams. But teachers may face challenges when introducing on line exams in a higher education context. This paper describes what sort of challenges will be there when introducing online exams. Online Examination System is an Application software solution, which allows universities, schools or any institute to conduct and manage examinations through an online environment. We have to use local or global network to conduct Online Examination. There are various problems faced in manual examination system like delay in result, loss of data, time taken in filtering of records, time taken in searching of records, data security problem & very high degree of human effort & materials are needed . System maintenance is also very difficult & takes lot of time & effort. Online examination is very important part of E- Learning it is very efficient, fast, accurate & user friendly. This type of system needs a network server where data is placed and from that server all users get access. This paper describes the principle of the on line Examination, gives information about main functionalities of the system, and security features of the system.*

**INTRODUCTION** - The Online Examination System is a Web Application. This type of examination is a Multiple Choice Question based examination. It provides user friendly environment for both test conductors & students. It establishes a network between the institutes and the students.

Institutes enter on the site the questions they

want in the exam. These questions are displayed as a test to the eligible students. The answers enter by the students are then evaluated and their score is calculated and saved. This score then can be accessed by the institutes to determine the passes students or to evaluate their performance.

It contains various functionalities for creating data base of questions, Data base of various answers related to questions, authorization facilities so that only authorized users can use this application. Generally there are two types of authorization admin & user. Admin is responsible for placing

question papers & solutions in that software. Admin authorization is very crucial. User authorization may be simple. It contains automatic evaluation & result calculation. It provides various test summaries for students & test conductors.

### PROBLEM STATEMENT:

To replace the traditional examination system with a new examination system as there is need to simplify and increase the security of the traditional system.

### OBJECTIVES:

To make a simplified and effortless examination system.

To make it easier for student to appear for examinations for objective as well as subjective type questions.

To reduce cost required for producing papers.

To make it easier for examiners for checking the papers and allotting the marks.

To facilitate the use of thumb print system for student's authentication.

To reduce cost required for producing papers.

### LITERATURE REVIEW:

In the cloud, assets are shared among the greater part of the servers, clients and people. So it is troublesome for the cloud sup-plier to guarantee record security. Subsequently it is simple for gatecrasher to access and abuse the information. In the event of trade off at any cost; entrusting cloud is of no utilization. A re- quirement for "basically solid and infeasible to get assaulted" sys-tem ends up noticeably crucial. The paper shows the record security display which utilizes the idea of half breed encryption plan to address security issues. In the proposed demonstrate, the encryption and unscrambling of different documents at cloud server is finished by utilizing blowfish and adjusted variant of RSA. Further, it is tried in cloud based environment: Open Nebula.

Cloud computing innovation drawn its consideration regarding IT world and is the changing the concentration of endeavors. As there is huge growth of internet technologies, Cloud Computing gained attention, reduction in cost of information storage and data processing, high growth in technologies of visualization, advancement in service oriented framework and network security also resulted in increased attention of Cloud based Computing. One of the key challenges in cloud technology is security. Risk ratio is considered as a base when an organization selects cloud computing. The security issues are focused in this paper. The meaning of cloud computing with a concise exchange over cloud computing is displayed before breaking down the security issues of cloud computing. At that point exchange of the segments which influences the security of the cloud and later talk on the issues of cloud security and issues looked by cloud specialist organization alongside some answer for the security issues. Integration testing is a key software improvement life cycle (SDLC) procedure.

In this proposed paper portrayal of improvement, outline of a cloud based secure multi cloud storage using encryption. Multi cloud storage is used by this application, to effectively maintain and store the client's data. Data Encoding technique and Multi Agent System (MAS) are the two mechanisms used. Both of these mechanisms are combined together to achieve information integrity and security for user's data in cloud storages. The admin's role is storing the data that clients upload. The client needs to register and login to upload the data. The client's details are stored on server when he registers. The transferred data of the customer is isolated into sub parts by an outsider specialist and after that each part is put away into a wide range of numerous cloud storages. Only the client can view his uploaded data. The third party agent (TPA) sends an alert to client informing him that the file is being tried for modification when any other person apart from client tries to access or modify the data. Recently the use of Cloud computing is done in various areas like cloud storage as service, cloud hosting as service, cloud distributed servers are increased. Considering the facts like the power utilization, stability of using services and the security of multi cloud, various threats to client's data on cloud storage can't be ignored. Information security in the cloud is assured by data access control. Due to outsourcing of data and untrusted cloud servers a challenging issue is generated in cloud computing. Customary access control plans are not any more practical to distributed storage frameworks, as they create number of encoded duplicates of similar information or requires a totally

trusted cloud server. Assaults done by noxious client at distributed storage is hard to keep away from. In their proposed framework they are presenting the idea of numerous distributed storage alongside upgraded security by utilizing encryption procedures where as opposed to putting away total document on single cloud server, it will be segmented into numerous parts and after that encoded and put away on various cloud servers and the meta information required for decoding and revising the information will be put away in meta information administration server.

**FUNCTIONALITIES** - General purpose online examination software contains following functionalities.

(i) User interfaces: The web application will have a user friendly and menu Based interface. Following screens are generally provided:

A) A login screen for entering the username, password Access to different screens will be based upon the user.

There is a screen for displaying information regarding entries to be made by institutes. There is a screen for displaying information regarding filling of exam details by institutes. There is a screen for displaying information regarding entering student list for the particular exam.

There is a screen for displaying information menu regarding what options the institutes will select while filling entries (entering questions, student list, deleting questions, entering exam details). There is a screen for displaying exam details to the students when they are taking exams.

There is a screen for taking exam for the students. There is a screen for displaying of results of students after taking the exam. Hardware interfaces Support for printer for printing results then and there.

### **Other Functionalities**

Students can skip questions which they find difficult and can attend them at the end. Students can mark questions for review to check their answer once again if they have any doubt about answers.

Questions answered, skipped and marked for review will be highlighted in different colors so that student can clearly differentiate them.

Students can submit answered questions at any point of time, all they need is to click on submit button and it will end the exam. Exam results can

be viewed in real time manner once student submit examination or if time is up. Student can view their result as well as that of the others students.

Upon completion of the exam, students will be informed whether they have passed the exam or not with reports. Students can check each and every question they attempted along with their answer and correct answer. Students can see explanation associated with each question.

If exam is terminated in between due to power failure, network issues or any other problem, it will be resumed from where students have left the exam. Exams with negative marking can also be set. Exams can be conducted for any number of batches from any courses.

Questions can be set directly so that each student gets the same set of questions. Order of questions and answers can be randomized with an option to randomize questions while setting up the exam.

Questions can be set with patterns. Patterns can be created based on subjects/chapters/sub chapter's marks and difficulty levels. Students get random questions according to patterns.

## CONCLUSION

On line examination is need of time & in near future most of the examinations will be conducted in online mode. We have to make on line examination more user friendly, We have to develop more I.T. infrastructure so that we can conduct on line examinations.

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