Review Paper on Analysis & Conduction of Certificate Examination in Cloud Environment

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Abstract - Traditional Exam cell activity mostly includes a lot of manual paper work. The aim of the project is to build a centralized system. So that all the examination activities can be done effectively and efficiently for both students and admin . The final system would constitute a computerized module aimed at replicating offline exam cell process. The system is a new concept which came into existence because of a large amount of data being on paper. The automated system for exam cell department will benefit both the students as well as exam cell department staff to easily handle the entire task related to exam cell in contrast to the existing manual system. This system will make the procedure of exam cell in an organized manner. The admin can also generate the Transcripts and Letter of Recommendation, and can also verify, confirm the photocopy and revaluation of each applied student by using the CLOUD COMPUTING Technology.

Keywords - Cloud computing technology, Revaluation, Exam form, Registration form, Photocopy etc.

I. INTRODUCTION

This system emphasis on to overcome the drawbacks of traditional paper work for exam by implementing an automated examination system. The centralized automated system is efficient as it overcomes important manual system drawbacks namely speed, precision, and simplicity. This system is like a common bridge between admin and students, thus making the activities convenient for each regarding examination. It is a system that will make the exam process much organized. The system can be customized based on the requirement of the various sectors. This System allows students to access required information regarding various exam forms, courses and internships and gain the vast knowledge about it. The main goal of the system is to make the system available for students anytime, anywhere and on any device and students will have remote access to the website where they can fill their exam should be conducted and the task of admin will be given to the exam admin where they can verify the students details by accessing their forms and check their details from database.

II. CLOUD COMPUTING

1.Cloud:
A cloud refers to a network or internet that can be accessed from a remote location. It provides services over a public or private network and can be accessible from anywhere.

2.Cloud Computing
Cloud Computing is a networking paradigm which involves the concept of sharing computing resources, by providing dynamically scalable infrastructure capable of hosting end-user applications, data and file storage rather than a local server or a personal computer.

3.Cloud Service Models:

3.1Software as a Service (SAAS): SAAS is a one-to-many-computing model where Software is delivered to the customer either as a service on demand or it can also be a pay-as-you-go model hosted by the vendor or the internet service provider over a network, typically internet.

3.2 Infrastructure as a Service (IAAS): Infrastructure as a service provides basic storage and computing capabilities as standardized services over the network. Servers, storage systems (databases) and networking equipment are pooled and made available to users to manage heavy workloads. There is a necessity to develop and deploy applications on the public, private and hybrid cloud.

3.3 Public Cloud: Public Cloud is owned and it is operated by third parties where delivering of superior economies of scale is made to the customers, as the infrastructure maintenance and costs are spread among the various users.

3.4 Private Cloud: Private cloud pertains to a single enterprise or organization. Private cloud vendor mainly

focuses on data security and provides a great control which mostly lacks in the public cloud.

3.5 Hybrid Cloud: Hybrid cloud is a combination of public and private cloud models. Hybrid cloud model increases the flexibility of computing. Using hybrid cloud model, services provider's service providers can utilize third-party cloud providers in a partial or full manner thereby increasing its scalability.

III. PROBLEM STATEMENT

In the existing system in the many institute which are conducted various courses and internships in that we see number of students are just feel the online form register their name for various courses and internship and do not attend the regular classes about that courses and internship and still they get the certificate . Also this will generate the wrong information about the institute because student will not get knowledge if they are not attending the classes. Due to these reasons there is need to develop a better system, which will overcome all the problems more easily and efficiently. For overcome these problems we have a new technology which is named as Exam Cloud. In this, the student will register and select the interested courses or internship and after selecting they have to regular classes and after completing the syllabus of a various courses and internships they give exam and they get a certificate. Also in exam, there is a criteria if they score in that criteria then they only get a certificate otherwise they will not get the certificate.

1.Proposed System:

1.1Working of the System:

In these systems, we have the need of student's information and an admin who will be Handling the system of Exam cloud.

1. 2 Students

Nowadays, all the students from the different streams are having the various online courses so for that student have to join that in their particular satisfactory institute. Once the students select their institute for the particular course or any type of exam or internship then he/she is applicable to learn it. Once the process of course period in completed then after few days the student appeared for the online/offline exam. The firstly joining the administration student get the login id and password for the exam module.

Once he/she singing that student block then exam will be held on that site and immediately if student scored good marks in the criteria then he got the online certificate on that student module only and student's mail also these certification having one unique identification that no one can scan it make it own. Some of the letters are unique based on the organizational name and after that the numbers consist of the serialization. Students from the rural areas also able to

solve this exam and get benefits' of knowledge, as it also conducted offline also. As these all modules stored in the cloud then it will extend the storage capacity of the system.

1.3 Admin :

The administrator (admin) level where all the authorized and well-educated educational organization from different cities and that distributed on the particular area wised. This module is having the private data of the particular organization and they all have to upload their own specialization and the courses which were conducted in their institute. Particular organization having their specific login id and password. The information of the different field are protected from the another administrator and all institute having only their data .If they were having one or more branch of same organization then they have to separately registered their id and password for them which is different for other branch . These block is consist of the details of the Courses, Exam, Internships in which stream the student might have to register. for the different Courses the Student finding the different projects and for the internship the student find the different task. After all these completion from the student module he/she finalized the exam and achieved the certificate . The proper valid certificate is generated from the organization and the send it to the student mail/ module.
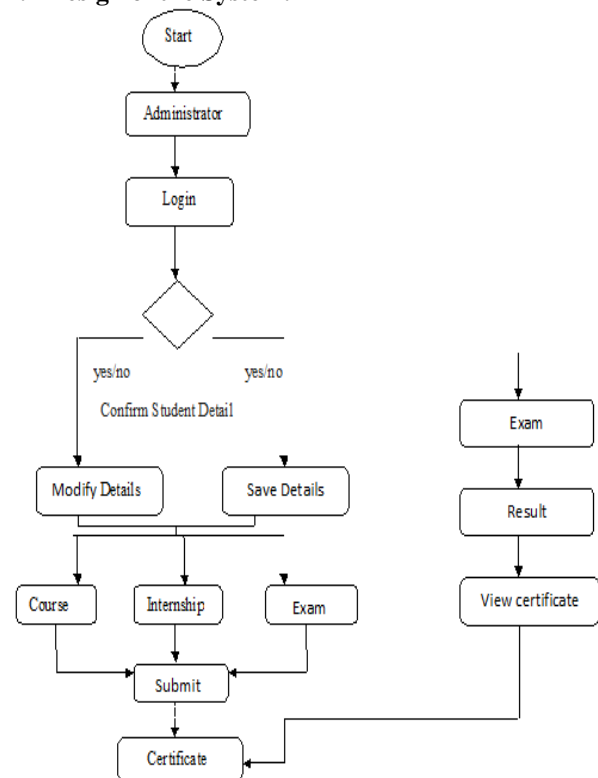
1.4 Design of the System:

Fig.1. Activity diagram of Exam Cell.

IV. FUTURE SCOPE

A website is never said to be complete, there is always room for improvement and enhancement as the technology improves need to be updated. Due to these rapid deployment these application can be re-used by the other departments that one can have the ability to focus on their objectives. Applications and the infrastructure deployed on the common Cloud Platform can take advantage of the virtualized nature of the cloud to scale as they required (Scalability). It reduced the effort in managing technology on a prebuilt standardized foundation that facilitates better support on cloud. It having the Powerful Computing and Storage Capacity and huge data storage space, puts the cloud as available to the students through Internet.

V. CONCLUSION

This is an automated approach toward examination department which will ease the work of the students by giving online/offline exam. This automated system is based on cloud computing as cloud computing becoming powerful network architecture to perform large scale and complex computing implementing an automated examination system will prove to be very beneficial.

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