

Review of Virtual Education through Cloud Computing

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ABSTRACT

Evolution of Computer Technology & Internet leading to results in elimination of paper, virtual technologies and digital computing equipments are becoming vital part of today's era. Digital training and use of virtual technology are important in education field leading to global awareness & scope. here we review the quantity & quality based use of cloud computing in education system.

Keyword: - Cloud Computing, VE.

1. INTRODUCION

Evolution of technology till today's smart devices causes the computing of data very fast & easy task. Need of sharing & transformation of information increases as the way of uses of technology increased. Information explosion leading to every education system must be adopting the technology to enhance & be dynamic with latest trend in information technology that will fulfill the requirement of today's education in technical & scientific field.

1.1 Cloud Computing:-

Cloud Computing can be defined as new technology of computing which is extensible as per need and virtualized resources are provided as a service over the network of networks. Cloud Computing has evolutionary technology and many experts predict that the cloud computing will be future of Information Technology market and services. With the cloud computing technology, users uses a variety of digital devices, including computers, Tabs, laptops, Smartphone's hand held devices, over the internet, through cloud computing service providers.

1.2 Virtual Education:-

Virtual education (VE) stands for utilizing Digital systems such as computer, internet, multimedia disks, eBooks, E-journals and virtual newsletters, etc. The aim of VE is to reduce overhead of time & cost and to learn easily for trainers. Now days cloud computing Emerged out as a Beneficial, both in industry and academic organizations. Cloud solutions seemed to key player in IT industries who suffer for financial concerns and economic woes. Cloud computing, a new evolutionary method of distributed computing, represents a lot of new perception conception, postulate, technologies and architectural styles into service-oriented computing.

1.3 Exigency of virtual education services in engineering:-

With evolution of information technology and telecommunication devices the methods and means of training also have transformed. Digital and virtual training have global acceptance and training classes are held electronically through digital media and without need to attendance of students. Universities can invest less money and reduce the number of Technical & Scientific board members and faculty by improving conditions and by familiarizing students and faculty with method of electronic training. By implementing training programs digitally, not only the quality of training but also supervision effort reduce, instead, due to large executive strength of these systems, all training process from planning and determining the need to implementation, supervision and assessment easily also issuing related certificates can be done properly. This can lead to less annual expenditures on education.

Virtual education has declined the learning time from 30% to 60% and has shown that time of information maintenance also has increased eventually. IBM Company, in a survey that had done on participants in virtual courses has shown that participant learned more in minimum time in comparison to traditional method. Sun Microsystems company, by improving states and deploying the program of familiarizing faculty with method of utilizing virtual training could save 100 million dollars in salary of employers. So, we can recognize the urge for using virtual education of course. Virtual training needs technology and appropriate platforms. Virtual reality is a medium between human and computer that simulates real time environments and allow user to interact with it. Such a system is like studying & sampling three dimensional images on two dimensional screens and is relevant to watching sea through glass bottom of a boat. With rising in internet sites worldwide, rivalry for gaining users has increased too. In this competition, those sites will be successful that have huge interaction with users in addition to user friendly graphical user interface. The observation of 100 top sites has showed that frequent of them use up to three dimensional animation and advocacy. In developed and network oriented environments using virtual reality in large extent & taking benefits of various cloud services such as SaaS, PaaS, and IaaS. For instance, in cloud computing environment various services include like education, software's, platforms, or desired virtual machines to meet their needs.

2. Merits & Demerits of virtual education environments

2.1 Meritus:-

In this environment,

- Security to users
- Majorly design & Implementation less expensive
- Dynamic & flexible System will easily modify as needed.
- Real time & virtual environments collaboration leading to effectiveness
- Complex problems easily tackled & solved by using virtual environments tools & cloud computing
- Three dimensional design & prototype modeling easily achieved through VE.
- On demand & pay for what used service implemented through VE
- Investment on hardware's, software's, infrastructures will not require too much as through cloud will handle all security & transactions not only but also provide all services.
- User can access services at anywhere, at anytime & on any platform.

2.1 Demerits

- The main risks on cloud computing technology are related to the following areas: authentication, validation data security and privacy, interfacing with Intranets, system availability.
- ownership of content and other legal requirements Among these risk factors, security and privacy are the most vital area as cloud computing data are stored outside corporate premises
- In cloud computing practices, the clients outsource servers, server applications, database storage, and software programs to a cloud service provider for obtain on-demand and pay-per-use service. This special arrangement makes cloud computing audit work different from that of traditional IT audit. We rectify that cloud computing provide key value to user organizations and businesses. Any new type of technology like cloud in information technology should add new and additional value to the existing IT strength or functionality to sustain. Cloud computing has been introduced to the IT field and gained sufficient acceptance from the users in the IT industries. It is likely that cloud computing has evolved worthwhile value in many user organizations.

3. CONCLUSIONS

Personal use of computer systems in organizations causes communication gap increased with outside world and has declined the progress in learning and research. So, universities and other organizations take the advantages of new computing Technologies and VE services, to enhance various factors such as cost saving and high learning speed and quality progress with assessment. Thus development of cloud architecture for balancing the technology research education. Virtual education through cloud computing will assure in cost saving & effective quality learning & teaching technology for today's education system.

4. REFERENCES

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Procedia - Social and Behavioral Sciences 143 (2014) 581 – 585

