Cloud Computing – A Next Generation E-Learning Resource

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Abstract: Cloud computing is an internet based distributed computing technology which provides Storage, Software, Computational platform, Computational infrastructures on demand as a service to the intended users in reusable fashion and users have to pay according to their consumption of those services. As with rapid growth of the cloud computing architecture usage, more and more industries move their focus from investing into processing power to renting processing power from a specialized vendor. Education field is no different. e-Learning has enormous potential in education. Cloud computing into e-learning is feasible and it can greatly improve the efficiency of investment and the power of management. Computing resources on demand and pay money according to their usage. e-Learning has a service for education with cloud provided with security

1. INTRODUCTION

Traditional education system is still prevalent everywhere, though curriculum might have been upgraded but mode of imparting education and learning environment has still remained conventional. In traditional education system, a teacher, and students and textbook come together to create a learning environment that has eroded with time and converted learning into a mechanical and monotonous routine. E-Learning refers to electronic learning, which basically is dependent on computer systems and other computing devices and hardware. E-Learning has enormous potential in education, and there is an urgent need to take stock of the possibilities that it offers. Education has been improving in day to day’s life.

2. e-LEARNING IN THE FIELD OF EDUCATION

The content of e-learning platform is the learning environment achieved through the use of computer programming, which is built on the network infrastructure. Its background is the teaching information storage database and database management system (DBMS). The future system is the web interface running in a browser. e-learning platform carries out for the use of the online exchanges between teachers and students. Its main function is to provide interactive environment for teachers and students. Internet has started reshaping education. Education will not be the same in the next decade. The Traditional class room has to be transformed. Education and Training forms one of the largest sectors of the economy in most of the countries. Interactive Digital content will have more emphasis. The way e-learning have entered an evolutionary Learning path and pace determined by learner.

3. RELATED WORK

An alternatives to the use of IT, while leading universities to improve agility [4] and obtain savings by giving access to applications from anywhere. Opening to business environment and advanced research Software free or pay per use but Risks related to data protection and security and accounts management in Organizational support and Not all applications run in cloud. A positive impact of using cloud computing architectures upon e-learning solutions develop [3] a set of cloud computing efficiency metrics for enhanced e-learning implementation process control and specific tasks that deal with finding providers for cloud computing, depending on the requirements Cloud computing can be seen as an innovation in different ways. From a technological [5] perspective it is an advancement of computing. cloud computing as a collection of many old and few new concepts in several research fields like Service Oriented Architectures (SOA), distributed and grid computing as well as Virtualization. The business challenges of the user and the specific customer requirements for cost reduction, flexibility, and innovation are met in a more granular and mature way.

4. PROPOSED SYSTEM

E-learning has a lot of advantages like flexibility, diversity, measurement, opening and so on; it will become a primary way for learning in the new century. Cloud computing to earn e-learning cloud research of the following aspects: its work mode, architecture, construction method, etc. E-learning system development into a virtuous circle and achieve a win-win situation for suppliers and customers and all the request are processed through on demand services. Part of e-learning data is confidential, but when these institutions store the data to equipment afforded by cloud computing service provider, priority accessing to the data is not the owner, but cloud computing service provider. Therefore, there is a possibility that e-learning confidential data cannot rule out being leaked. So important datas can be stored through Model View Controller Architecture.

5. CLOUD COMPUTING

Cloud computing an internet based computing using web services for our computing needs which cloud include using software applications, storing data, accessing computing power.
or using a platform to build an application. With cloud computing users can access the database resources via the internet from anywhere as long as they needed, without worrying about any maintenance or management of actual resources. Cloud computing is the fifth generation of computing with a model for enabling demand network access for a shared pool of configurable computing resources. The services provided by cloud computing are as a service, Platform as a service.

5.1.1 User Registration and Control
User Registration Module provides functionality to register viewers of the e-learning site to get access for personalized content to its users. Custom modules that support personalization and user specific handling. Provides resources of E-learning based on the awareness. User Control with the user name and password which are given during the registration process.

5.1.2. Content Creation
Content creation refers to the creation of content, such as database. Language technology and tools can be used for creating computerized qualitative content.

5.1.3 Content Management
Interaction between learners and the system in their own languages through the following:
- e-classes
- e-survey
- e-Chats
- e-Discussion
- List forums

5.1.4. Delivery and Expansion
Delivering immediate results at a fraction of the cost of alternatives.
- Save Time
- Save Resources
- Save Money
Management and Tracking of online learning across organization easier and more affordable.

5.2 Infrastructure as a Service
It is referred as HaaS or Hardware as a Service and it involves both storage services and computing power. Provides user computing resources and storage comprised with many servers as an on-demand and “pay per use” Center, Bandwidth, Private Line Access, Servers and Server Room, Firewall, Storage space.

5.3 Platform as a Service
Computing platform provides supplies tools and a development environment to help companies build, test, and deploy Web-based applications. Bundles all stack components (hardware, infrastructure, storage) together with database, security, workflow, user interface, and other tools that allow users to create and host powerful business applications, web sites, and mobile applications. Examples – Sales force.

5.4 Software as a Service
Applications or software is delivered as a service to the customer who can access the program from any online device, eliminating the need to install and run the application on the customer's own computers and simplifying maintenance and support. Examples – Google Apps.

6. CONCLUSION

Thus cloud computing used for the best way for web content management for multiple server based resources. If you are going to use the cloud, be make it sure that you see what information you are going to place in the cloud, who can have
permission to access that information, and how you are going to protect and make sure it is protected. In addition, select what type of cloud computing will be best for your needs, what type of service provider will be most handy to you, and what the responsibilities of the providers you are looking before you are accepting. It will present the opening to build data, software and knowledge as one to solve problems. Clouds could assist greatly in the e-government program by providing information about the place and people. It has been clearly confirmed that Cloud computing is a green option.

References