Current Trends in the Improvement of Educational Institutions Utilizing Cloud Applications

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Abstract

The world is a major experimental and innovative unrest, had an effect on all parts of life, He/She got to be Education requesting to opted for new strategies for showing and models to meet the numerous difficulties at the worldwide level, including the expanded interest for education with a diminish in the quantity of Education foundations, and build the quantum enlightening in all branches of information, showed up E-Learning to help the learner to learn at the spot where He/she needs while inclinations without the commitment to go to the classroom at particular times, Became the system and methods for Education and quest for data and effortlessly acquired and the obtaining of new learning through computing applications.

Keywords: Computing; Internet; Storage; Mobile cloud; Services; Information technology products from software to services

Introduction

Defying the usage of computing in direction a huge amount of challenges which gives back the relative freshness of the organizations market and defaults accessible for organizations. For preparing, the decisions will be impacted by the choice of computing development and the method for cost thoughts. Data is the vital part for training, and to settle on choices about how to deal with this data can be connected to large portions of the political and social contemplations, and financial. Reception of computing meets numerous endangerments and difficulties during the time spent choosing when to utilize and comparative on account of the utilization of more conventional outsourcing [1]. Build the likelihood that the administration supplier or the wellspring of this administration abroad does not take after the territorial and state laws; it can make some of these concerns more intense.

Cloud computing offers Educational organizations of different assets and open doors for the advancement of Internet applications and storage spaces, simple to utilize and absorbing for understudies, and there are numerous worries about security and protection in the, however a large portion of these concerns are identified with being another innovation is as yet developing, and in this manner can be considered as interim issues. Later on will be computing a significant effect on the instructive environment, as they can give the foundation and assets essential for learners to perform any number of errands on the cloud while minimizing cost and offering them simple access enormous measure of data that is accessible on the web, will clarify and clear up computing and different approaches to the procedure of capacity and access to data.

Computing is a model offers simple access by means of the Internet to a typical arrangement of assets (networks, servers, storage, applications, and services) that can be prepared to work rapidly and a little exertion, or heads unless they are unavoidable.

ii. Objectives: Establishments of advanced education exploit computing and the appropriation of the most recent innovations and arrangements is crucial to build aggressiveness and hold understudies.

- Computing serves to decrease the costs that go to purchase equipment, programming or upkeep.
- The computing gives colleges virtual server farms open to everybody from educators, staff and understudies, whenever or wherever they are in.

iii. Help computing help educational establishments to

- Oblige the fast increment in the utilization of the cell phone conditions.
- Storing developed measures of touchy information and data which can be gotten too effortlessly.
- Stay with the improvements (for instance, giving an advanced archive to understudies inside of the College to store and part notes and undertakings Notes).

iv. Opportunities and advantages to switch from the existing arrangements: There are a few critical strides to depend on distributed computing, whether public or private, and distinguish every potential opportunities and favorable circumstances to change from the current things to, it requires:

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**Figure 1:** Example for cloud computing model.

- Guarantee that the current base of the organization supplements existing administrations on the. The move to administrations is not win or bust, and some administrations can bolster existing innovation and expand its adequacy both as far as its capacity to include records and limit default stockpiling and similarity with the foundation of the organization will be a vital stride to go to cloud services and adoption [3].
- Put the expense/advantage and danger evaluation system to bolster choices identified with where, when, and how you can receive cloud services?
- Readiness approach to enhance the present data innovation environment at the appropriation of open and private cloud services map.
- Recognize the information that can’t be made accessible out in the open distributed computing situations lawful or security reasons.
- Distinguish and secure the skills that will be needed for the reception of cloud services and offices successfully.
- To assess the specialized difficulties that must be tended to when the exchange of any stream or my application to the environment, regardless of the fact that a private.

**Cloud Environment**

Few surprising ways computing is changing education:

1. No more expensive textbooks. It’s no secret that university-level textbooks are expensive. The cost of textbooks has outpaced the cost of virtually everything else in education, including tuition. As a result, many students are simply refusing to buy them. -based textbooks can solve this problem as digital content is significantly less expensive than printed content.

2. No more outdated learning materials. In the K-12 arena, the problem of expensive textbooks means that many of the materials students are using are outdated. The average social studies book in elementary and junior high schools are seven to eleven years old, which means that the world maps in these books are no longer correct. With cutbacks in school budgets, many districts, especially in less affluent areas, simply can’t afford to replace these outdated resources. -based materials are easy to update in real time so that students always have access to the most current learning resources.

3. No expensive hardware required. -based applications can be run on Internet browsers, but most are compatible with mobile devices as well. This means that schools and students do not necessarily need to own expensive computers—a $50 smartphone can access these applications just as well as a $500 laptop. Students also don’t need to purchase external storage devices as there are plenty of companies, like Google, that offer free -based storage [4].

4. No expensive software required. One of the biggest advantages of -based computing is the software-as-a-service (SaaS) model. Many software programs are now available either free or on a low-cost subscription basis, which substantially lowers the cost of essential applications for students [5].
Set of Recommendations

To be responsible for teacher and student tools of creativity and innovation, participation, and by providing methods of recreation, communication and adaptability to manage the sources of the information provided by cloud computing [6-7].

- Help students access to programs and the acquisition of knowledge should use cloud computing and reduce cost.
- Must be exposed to a range of topics in cloud computing delusional focus on privacy and censorship.
- Focus on the security of cloud computing to work out in all fields, especially educational fields.
- Educational interest in the adoption of cloud computing and should be the basis for the efforts of information technology in the future, and must be addressed and the integration of this factor in the information technology strategy.
- Unfortunately, not every single educational institution regularly has capacity to exploit the most current data innovation that supports teaching and learning; a institutions’ number don’t have adequate equipment and/or programming to give the understudies a complete learning knowledge.
- An educational institution has various departments and many semesters where lots of students need to access the computing tools with highly available up-to-date software and hardware and many more [8].

Mobile Cloud Computing

There are numerous reasons including mobility, communication, and portability cloud computing is known to be a promising solution for mobile computing. Advantages of the consolidation of both mobile computing and cloud computing are combined by mobile cloud computing, thereby providing mobile user the optimal services [9]. These advantages are:

- Improving Reliability
- Scalability
- Multi-tenancy
- Multi-tenancy

At the point when examining the late innovation advancement, mass appropriation of cell phones in the course of the last couple of years is a pattern that is regularly put shoulder-to-shoulder with cloud computing. While organizations movement to Bring-Your-Own-Device (BYOD) strategies classrooms additionally search out the approaches to profit by expanded versatility (Figure 2).

Although numerous teachers still battle to actualize cell phones in their classrooms, others have reported huge advantages regarding

- Student Interaction
- Resource availability
- Simplification of teaching and learning processes

As such, the best obstruction to this sort of development has been the expense of gadgets. Be that as it may, with the expanded accessibility of low-estimated tablets and cell phones, it is normal that significantly more understudies would get a chance to become acquainted with these devices throughout the couple of years [10].

![Figure 2: Simplification of teaching and learning processes.](image-url)
Advantages:
- Access to applications from anywhere.
- Support for coaching and learning.
- Software free or pay per use.
- 24 hours access to base and content.
- Increased openness of students to new innovations.
- Increasing practical capacities.
- Offline use with further synchronization.

Conclusion

Cloud Computing System, like other technologies contain the pros and cons, but in the field of education from the perspective of a researcher that it will be one of the essentials of e-learning and private mobile education, education, widespread, and must be comprehensive coverage of the service and fast Internet access to benefit the student and the teacher of the applications that will call it from now on Services cloud computing. Modern development in industry, medicine and all fields depends on the evolution of technology in the fields of communications, networking and e-learning must.

The key object behind the mobile cloud computing to empower the mobile user by providing a seamless and rich functionality, nevertheless resource limitations of mobile devices. Though still now it is on the early stage of development, in future mobile cloud computing could turn out to be the major model for mobile application [10].

This paper has provided an overview of Educational institutes use cloud (mobile cloud) computing in which its services and advantages have been presented. I have given an extensive view of current trends in the improvement of Educational institutions. Therefore, highlighting the objective of cloud computing using educational institutions, I have also described different ways cloud computing is changing education. My future work would focus on how the security can be improved on mobile cloud computing used in Educational Institutions.

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