

USE OF ICT IN HIGHER EDUCATION INSTITUTE WITH CLOUD COMPUTING

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Abstract

Higher education institutes have developed exponentially over the most recent five decades to satisfy the needs of quality teaching for all. This angle has additionally picked up energy because of quick headways in Information and Communication Technology (ICT). Interest for gifted and skilful work is ever expanding in the contemporary globalized society. Right now, to quality in higher education for all has risen as a deciding variable of financial development and improvement with the best use of cloud computing concept.

Introduction

The Information and Communication Technology (ICT) is an umbrella term that incorporates any specialized gadget or application, including: radio, TV, mobile phones, PC, and system equipment and programming, satellite frameworks, etc, just as the different administrations and applications related with them. For example videoconferencing and separation learning. At the point when such advances are utilized for instructive purposes, in particular to help and improve the learning of students and to create learning conditions, ICT can be considered as a subfield of Educational Technology. ICTs in advanced education are being utilized for growing course material; conveying substance and sharing substance; correspondence between students, educators and the outside world; creation and conveyance of introduction and talks; scholastic research; regulatory help.

Cloud computing is the on-request accessibility of PC framework assets, particularly information stockpiling and processing power, with direct dynamic administration by the client. The term is commonly used to describe server accessible to numerous clients over the Internet. Huge clouds, overwhelming today, regularly have capacities dispersed over numerous areas from focal servers. In the event that the association with the client is generally close, it might be assigned an edge server. In the higher education the teachers can use this concept to utilize the data and learning material stored on the clouds of various servers

Problem Definition

Now a day's resource persons or teachers are facing many issues while using ICT resources at base side of education institute. There is a biggest problem of the data integrity and safety of data at institutes and while carrying that data most of the time it gets lost due to various issues at system and resource. Due to lack awareness and training we are away from this new era of most recent technology.

Objectives

- To understand the use of cloud computing technology for effective teaching learning.
- To motivate the higher education institute for effective implementation of cloud computing and its data integrity.
- To motivate the teachers to take the advantage of this new era of technology and learning.
- To motivate student to use this ICT based education.
- To motivate the society to understand the importance of cloud computing.

Components of ICT



Figure:Component of ICT

• **Cloud computing** – The term is commonly used to depict data centres accessible to numerous clients over the Internet. Enormous mists, overwhelming today, regularly have capacities circulated over numerous areas from focal servers. In the event that the association with the client is generally close, it might be assigned an edge server. Mists might be constrained to a solitary association be accessible to numerous associations (open cloud) or a mix of both (half breed cloud). The biggest open cloud is Amazon AWS.

• **Software** is a set of guidelines, information or projects used to work PCs and execute explicit assignments. Inverse of equipment, which portrays the physical parts of a PC, programming is a conventional term used to allude to applications, contents and projects that sudden spike in demand for a gadget. Software design can be thought of as the variable piece of a PC and equipment the perpetual part. Software design is regularly separated into application programming, or client downloaded programs that satisfy a need or need, and framework programming, which incorporates working frameworks and any program that underpins application programming.

• **Hardware**– with regards to innovation, alludes to the physical components that make up a PC or electronic framework and everything else included that is genuinely substantial. This integrates the screen, external storage, internal storage and the CPU. All the peripheral of

computer works connected at the hip with firmware and programming to make a PC work. Equipment is just a single piece of a PC framework; there is likewise firmware, which is implanted into the equipment and straightforwardly controls it.

- **Digital Transactions** can be comprehensively characterized as on the web or robotized exchanges that happen among individuals and associations—without the utilization of paper. It saves time and cash bringing about a superior primary concern. Client encounters are likewise upgraded (think about the comfort of e-Signing as opposed to printing an agreement, sign it, and afterward return it via mail or fax). What's more, computerized exchanges improve following capacities—which diminishes mistakes.

- **Digital Data** is information that speaks to different types of information utilizing explicit machine language frameworks that can be deciphered by different advances. The most basic of these frameworks is a paired framework, which basically stores complex sound, video or content data in a progression of double characters, generally ones and zeros, or «on» and «off» values.

- **Internet access** is the way toward interfacing with the web utilizing PCs, PCs or cell phones by clients or ventures. Web get to is dependent upon information flagging rates and clients could be associated at various web speeds. Web get to empowers people or associations to profit internet providers/online administrations. The web started to pick up prominence with dial-up web get to. In a moderately brief timeframe, web get to advances changed, giving quicker and progressively solid alternatives. At present, broadband innovations, for example, satellite web and ADSL are the most generally utilized techniques for web get to. The speed, cost, unwavering quality and accessibility of web get to relies upon the area, network access supplier and kind of association.

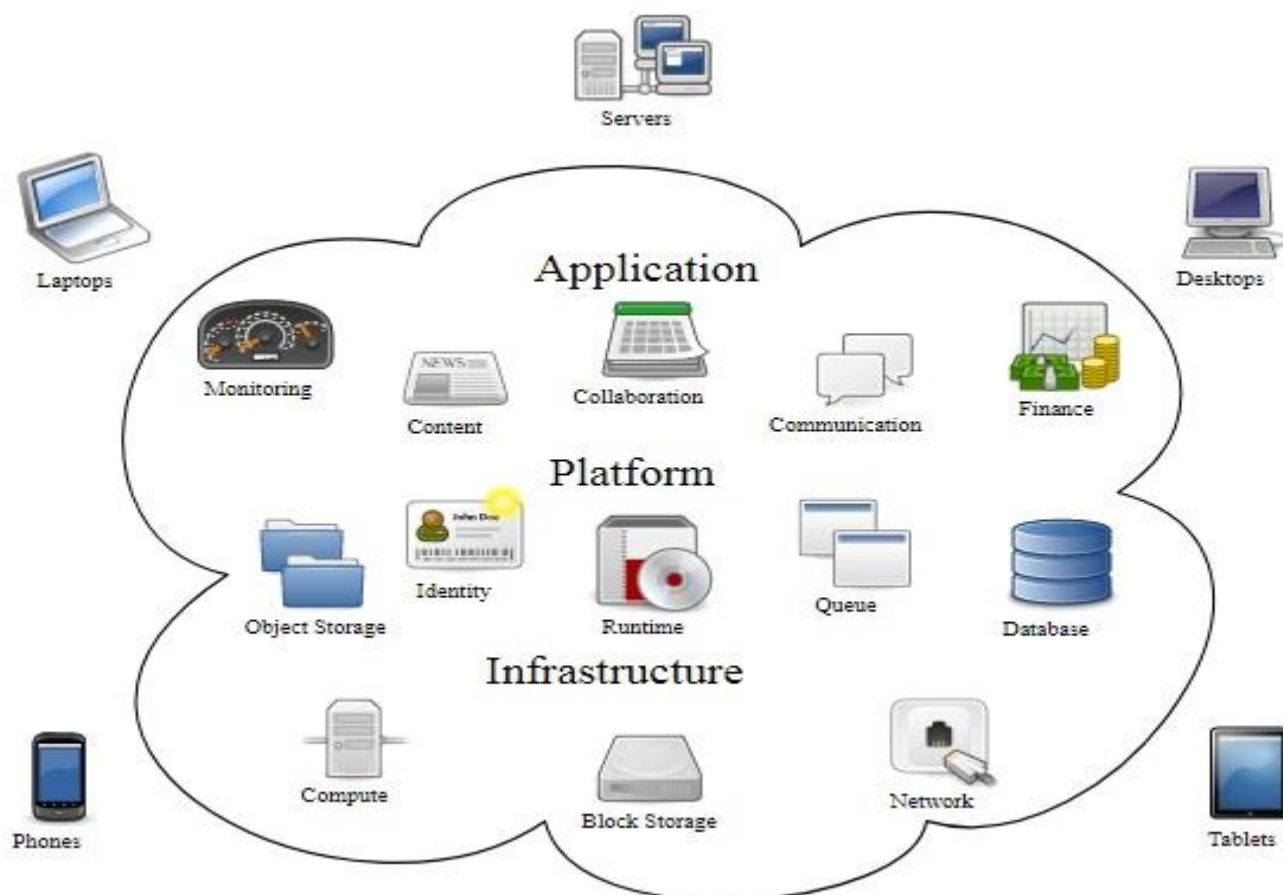


Figure: - Cloud computing working architecture

Benefits in Higher Education

Utilization of ICT via cloud computing in institute promotes an remarkable chance to understand large number of difficulties can be solved rapidly just as at low rate. Here is an outline of favourable circumstances of an ICT via cloud computing:-

1. Encouraging Factor:-

The web or internet can go about as an inspiring apparatus for students. Youngsters are exceptionally charmed with innovation. Teachers must profit by this intrigue energy and excitement about the Internet for the reason upgrading learning. For effectively energetic students, the web furnishes them with extra learning exercises not promptly accessible in the native place.

2. Fast communication:-

The web or internet advances quick correspondence across geological hindrances. Understudies can join community oriented ventures that include understudies from various states, nations or landmasses.
co-operative learning.

3. Co-operative learning:-

The web encourages co-usable learning, supports discourse and makes an additionally captivating homeroom. Teacher can store their learning material over cloud and make accessible to all the students via internet at their native home

4. Locating Research materials:-

Aside from correspondence, inquire about is the thing that takes numerous individuals to the web. There are numerous assets on the web than the school library can give.

Outcomes:

Higher education institute can use this technology as teaching learning process for their student as well as teachers also. They can build a setup of this for effective teaching learning process. This research paper aware the society about the importance of ICT base education with cloud computing.

Conclusion

ICT play crucial job as a strong operator for change among numerous instructive practices i.e. web test online exams, pay online, getting to online books and journals. Along these lines ICT in Higher instruction improves educating learning process, gives the office of internet figuring out how to thousands to thousands of students who can't benefit the advantages of advanced education system they can avail this system from their native home via cloud data accession and many securities are avail now days for data safety and integrity.

References

- [1] <http://europeyou.eu/es/what-is-information-and-communication-technology/>
- [2] <http://www.eduhelpnet.com/impact-of-ict-in-good-governance-and-e-governance/>
- [3] https://en.wikipedia.org/wiki/Information_and_communications_technology
- [4] https://en.wikipedia.org/wiki/Cloud_computing