

A Study on E Learning For School Students Using Mobile Cloud Computing

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ABSTRACT

Cloud computing is one of the modern development of the era. Mobile cloud computing (MCC) is the combination of mobile and cloud computing system. Mobile cloud computing is used in school education system for E-learning. Cloud computing is cost effective and gives us more data that can be access through online through an computer or mobile. E-learning is one the most effective method of learning in recent days in schools. Mobile cloud computing consist of mobile applications which helps in e-learning. Less usage of internet is also an advantage in mobile cloud computing. Mobile applications were design based on the subjects in the schools especially science, maths etc. E-learning materials are also available in this cloud system. This paper is about how E-learning process is carried through mobile cloud computing.

1. INTRODUCTION

E-learning is a learning digital environment which uses information and communication technologies (ICT's) as a platform for teaching and learning activities. In the beginning E-Learning is mainly used for distance education and references. Today the digital revolution has changed the education system were many online courses and materials are available as E –Learning resources. Research on media comparison "proves" that there is no difference in the learning outcome of e-learning from traditional face-to-face instruction. Many corporate companies provide their training through E-learning resources. E-Learning facilities make a new step of development to the schools. Over time, more and more instructors/institutions are incorporating E-learning components in the practice of instruction in higher education as a way of facilitating learning.

CLOUD COMPUTING

Cloud computing is a process of storing data online and accessing those data from the remote servers. This abstract "cloud" of computers provides huge amount of space to store data, and to monitor it in a easy manner. The data can be access by any wireless device with internet connection. Many companies use cloud to store their data. Data monitoring is also a great business done by many companies using cloud services. Cloud computing is also used in education for E-learning and science oriented skills development. Many videos and images are also use full in E-Learning.

EXAMPLES OF CLOUD SERVICES

- **Dashlane** - Online password service to synchronize and manage passwords between all devices.

- **Google Apps Engine** –It is a service provided by Google to create web resources.
- **Google Calendar** - A way to organize your schedule, synchronizes, and share events with your friends.
- **GoogleDocs** –A new innovative idea of Google edit Microsoft office file without Microsoft software. User can edit type and share files using Google docs Online.
- **Microsoft OneDrive** - Formerly known as SkyDrive, OneDrive is an online storage service for Windows 8 and Windows 10 users to store Windows related files, Office documents, and other files.
- **Online backup** - There are dozens of online backup services to store your important information offsite in the cloud. For example, MegaNZ and Dropbox are some of the online cloud storage services where the users can store their data and access any time from anywhere.
- **Oracle public cloud** - Oracle cloud service for small and large businesses.
- **OwnCloud** - Open-source software that allows you to run a cloud file storage service.
- **Windows Azure** –It is an cloud computing service used by companies to store their documents online and access.

MOBILE CLOUD COMPUTING

Mobile Cloud Computing (MCC) is combination of mobile and cloud computing. The aim of mobile cloud computing system is to provide enormous data through mobile applications. E-Learning is popular around the world. It has just evolved in India. There are various e-learning methods with digital electronic devices and internet. Mobile phone is also a tool for E-Learning. Mobile can be used as similar to a computer for E-learning. Applications were introduced for mobile E-learning. Mobile Cloud computing is easy access from anywhere with a basic internet connection. Today many E-books were also introduced in online which can also be accessed through mobile phone.

- **Mobile Email:** Mobile email is perhaps the example of mobile Cloud Computing that most people can connect with. Mobile email also has a drive where we can store data in cloud and access it.
- **Apps:** Several companies in the real estate business, for example, are now utilizing mobile apps that allow prospective homebuyers to locate homes for sale using satellite GPS. Every time a user initiates a new search, the computation is performed on a remote server and the mobile device displays information sent to it from the Cloud.

E-LEARNING THROUGH MOBILE CLOUD COMPUTING

Education in schools has developed with digital boards, smart class room etc but usage of paper as book has not reduced even today. Students carry book to schools and they use those books during class hours. Book is the major source of education for students. Today many books are converted

into digital form where it is read online. The cost of books is also very high compared to the digital books. Most of the digital books are available for free. Apart from their books they search in internet for further clarification.

The activity based learning system which is followed today makes students to access internet and collect data for their project. In mobile cloud computing there are many applications which support mobile phones and tablets. These apps are designed especially for students based on the subjects they search. Mobile app for maths, physics, chemistry, biology, plays a major role in E-learning. There are many apps for competitive exams like NEET, GATE, etc. Students can also learn through the videos that are uploaded in YouTube. Science practical paper can be learned through the videos available in cloud. Solved question papers of various exams are also available in cloud.

Mobile cloud computing is cost effective when compared to purchase of paper books. The usage of internet and a smart phone is much enough for this service. Student can write pre exams and learn subjects with fun. Students can develop their knowledge and creative skills using these applications. E-learning will also help students to ask their teachers about various doubts and questions related to subject. E-learning is the most popular way of learning in today's education scenario where mobile application also plays a major role.

E-LEARNING MOBILE APP

- **Dropbox:** It can be used to store additional copies of hand-outs. Students print copies on their own.
- **Evernote:** Effortless solution to note-taking makes this app the best note-taking and organizational program you'll find and makes the information you need available to you anywhere.
- **My Study Life:** It works like a calendar application allowing you to plan out your days, weeks, months, and years. This can make planning ahead a lot easier than trying to remember.
- **BYJUS'S :** An app developer for education provides mobile application for many subjects in schools.
- **Study at home:** An exclusive mobile application for school and college students.
- **Chem101:** Mobile app designed for chemistry subject. This app is used for solving chemical equation.
- **Neet:** An app design for preparation of NEET entrance exam.
- **Socrative:** Engage the entire classroom with educational exercises and games while capturing student results in real time..
- **Toontastic:** Kids choose the character and setting for each scene to tell their story. The app doesn't just allow kids to make their own cartoons, it also teaches the fundamentals of storytelling.
- **Gosoapbox:** GoSoapBox is used during participation barriers, keeping students engaged.
- **Hungry Fish:** A simple app to help students polish up on their number skills. This app features instant addition – bring two numbers together and they'll merge and add.
- **Balloony Word:** Children will learn practice spelling skills while trying to keep a gorilla afloat with a handful of balloons.
- **Number Train:** Children can learn how to count, sequence, and write numbers 1 through 20.
- **All math formula:** Maths is a challenging subject which has many tricks to tackle. This app has formula for all maths problems.

2. CONCLUSION

E-Learning is a most easy and prominent way of learning in today's generation. Though many new books and journals are available in market E-books are most easy way to access through digital medium. School students are encouraged towards E-learning sources. Mobile cloud computing is cheaper where there is no need of computer and today many people access to smart phone and mobile apps. Thus these types of cloud education will grow to higher level in future.

3. REFERENCES

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