A Cloud Based Solution for Smart Education

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ABSTRACT

This article describes how in the current digital era, smart is the latest buzzword. From smartphones, smart homes, smart cars to smart cities every technological as well as traditional device is becoming smarter. In the field of education digital learning has always been present daring back to the educational television shows. Now it has evolved into e-learning, m-learning and now s-learning. Campuses are becoming smart with the use of latest technologies like IoT and cloud computing. Smart learning is the use of all these latest paradigms in order to optimize the teaching and learning experience. It enhances the traditional classroom environment to make learning more fruitful. Cloud computing is now invading all realms, as it reduces dependency on hardware and reduces cost and the headache of maintenance. Cloud technology can be integrated with learning to make learning smarter. We propose a solution to combine these both in order to get an optimized learning system which will help students in self-evaluation and will use cloud to provide its services.

KEYWORDS

Smart Education, e-Learning, m-Learning, s-Learning

INTRODUCTION

Cities have played a major role in development of civilizations, and enabled people to progress beyond the neolithic. With the advent of the third industrial revolution the cities also started a shift towards a digital evolution. Today an average citizen has easy access to one or more terminals (Smartphone, tablets, laptops etc.) as their medium of using the Internet and technological services. Cities are now becoming smarter with the use of IoT and similar technologies. Smartphones are approaching...
peak saturation, and the Internet of Things (IoT) is becoming a normal part of our lives. There is a refocus from the technology to its applications and the people it helps. A smart city is one that utilizes information and communications technology in order to improve the quality of the urban services. The Smart City paradigm develops concepts, systems, and applications which are aimed at making city life more efficient, cleaner, safer, and reduce costs. The needs of institutions, companies and citizens about the transportation, economy, environment and energy, public safety and healthcare are some of the plethora of new research initiatives in this field.

**Smart Campus**

Smart campus is an integral part of the smart city paradigm. Campuses can be made smart by having smart attendance, timetable, parking, energy management, smart learning and education. In a developing country like India emphasis should be laid on education.

The smart campus is developing an overall community in colleges and universities campuses. The modules which come in a city, most of them can easily be adapted in a smart campus. This is because the environment is much more controlled and cross-functional issues are comparatively less. The value of learning, education, obtaining a degree needs to be explained. The campus experience should be improved and elevated. Techniques need to be developed which encourage students to engage more deeply with campus life. Smart campus also deals with the issues of having something distinctive which distinguishes your institution and makes it a place that students, faculty and researchers will want to be a part of. Smart campus tries to solve the issue of giving students a compelling reason to choose to stay on that campus in comparison to other institutions. More and more colleges and universities are now placing technology front and center in their strategies to improve their campuses and develop a smarter campus. Technology infrastructure including wired, wireless devices, IoT sensors, etc., forms a utility and a platform for new applications and experiences, that make a campus smart. These are being used to improve the campus and the experiences they provide, in order to make their institution stand out from the crowd. In this way, technology is playing a huge role in shaping the campus experience.

**Smart Education**

An important part of smart campus is smart education. e-learning, m-learning are some of the ways being used to make learning smarter. Smart education is the use of state-of-the-art technology by both learners and teachers to improve the learning experience. It provides holistic learning using modern technology. It offers a paradigm shift in the way students learn and access educational resources. It prepares them for a fast-changing world where adaptability is essential. It uses smart devices to augment the learning outcome of traditional education.

With the technological advances everything is being infused with intelligent design. Education is not far behind with Smart education gaining significant attention. Smart learning has evolved with development of smart devices and technology. Development

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