Emerging Trends for Sustainable Development in Libraries

A Perspective of Self - Reliant Learning

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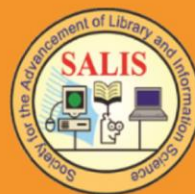❖ **Dr. T. Raja** ❖ **Dr. K. Ramasamy** ❖ **Dr. A. M. Venkatachalam**

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MOBILE APPLICATIONS USING IN TEACHING AND LEARNING PROCESS

Nicholas Jegan, A (Dr.)

Assistant Professor, St. Xavier's College of Education (Autonomous), Tirunelveli - 627002

Abstract

New smart devices and digital applications are becoming available to academics as technology evolves in education. A digital magazine is an example of a technology that can improve the learning experience of students inside and outside of the classroom. Many digital magazines are available and some can be further customized and curated by instructors using mobile apps. Using a mobile app, Flip board, curated digital magazines are created and distributed to enhance students' engagement, enjoyment, and learning of class-related content. In general, students responded favourably to this technological innovation. Comparatively to students in a control group, students exposed to the digital magazines and mobile app displayed higher levels of enjoyment with class content and performed better on a knowledge assessment.

Keywords*: Mobile Applications, Teaching, Learning, Research*

Introduction

Traditional education is also called traditional education or general education. A key motivation for traditional education is to pass on the values, moral and social skills of the next generation needed to survive. In traditional education, the learner learns about the customs and traditions of the community in which he or she lives. This type of education is mainly given to students in the form of oral repetition.

Modern Education is the latest and most recent version of education in schools and educational institutions in the 21st century. It focuses not only on outstanding courses in Commerce, Science and Arts but also aims to promote critical thinking, life skills, value education, analytical skills, and decision-making skills for students. Online Education also uses the latest technology such as mobile apps, audio and video forums such as YouTube, Podcasts, E-books, movies, etc. teaching students and making the learning process attractive and engaging.

However, traditional and modern teaching methods are effective and useful in online education. Modern teaching methods are very important and play an important role in the development of children's education and knowledge. Modern education includes a variety of learning and teaching methods, including popular spatial learning, which encourages students to switch quickly between activities. With the application of science and technology in teaching methods, education becomes more interesting, easy, and interesting for students.

Mobile application in education

Learning and Innovation go hand in hand. In this Era of Innovation, a lot of things are getting evolved and so is education. Learning is a continuous process and does not have any end no matter how much you learn or understand there are still things left that you can still explore but the only thing you require is information. Access to any information from anywhere at any time makes the learning process convenient and easy. In these changing times, access to information is at the fingertips through mobile phones.

A mobile phone can make a lot of your tasks easy for you and also saves a lot of time. Visiting the library and selecting books, data collection is no more a [   ] rend in education is

changing there is a digitalization wave into education. E-Learning is the new need for the students. E-Learning mobile apps are getting popular day by day and that is due to its uniqueness of making learning fun for students. Educational mobile Apps directly target the psychology of the students which helps students to understand and grab the information from a different perspective. The app makes them understand the concepts by giving those challenging tasks, puzzles, and educational games. The audio-Visual form of education is being liked by most of the students. This newness in the universe of learning makes them excited and eager to learn.

Educational Mobile applications are accessible anywhere anytime. It is not time-bound. Educational mobile Apps are also helping teachers to keep appropriate track of student performance and report due to its special automated grading, attendance feature. Not only teachers but parents are also able to connect with teachers easily through an app where they can share the queries and concerns anytime and anywhere. Education Apps helps students to analyse what they have been taught and what is the source of it which makes them curious to know more but in a systematic way where they know how, when and what to explore. This overall process helps the students to learn practically and not theoretically.

Students save a lot of time through educational apps. No need to travel so it saves traveling time. Getting references, class notes is easy just download it so it also saves time. Features like instant updates, Portability, unlimited learning, etc. Saves a lot of time.

Mobile applications used for teaching and learning
1. Artificial intelligence

Artificial intelligence (AI) is all around us, and that includes in many of the most popular educational apps. AI helps to add personalization to these educational apps. It ensures that the learning material and features provided by the app are tailored to the requirements of the student group that the app is targeting. It ensures that the subject matter is neither too challenging nor too easy for the students, but instead, they are provided with something which benefits them the most according to their requirements. AI also helps to create an interactive experience keeping students engaged throughout the learning process. For example Google Assistant, Amazon Alexa, Replika, FaceApp, Cortana, ELSA, Socratic, Swiftkey Keyboard, Data Bot, Siftr Magic and Wrapping up mobile applications are presently using in useful manner.

2. Virtual Reality
Virtual reality (VR) uses computers and technology to create an environment that resembles reality. VR is a great resource for education through including VR for learning; students can understand what is being taught to them as the subject matter comes to life. One such example of this technology is there are mobile learning apps that teach about human anatomy by using virtual 3D navigation to illustrate the anatomy of various human bodily structures. Few examples are Google Cardboard, YouTube VR, Google Daydream, Fulldive VR, Titans of Space, InCell VR, Minos Starfighter VR, Netflix VR, VR Thrills: Roller Coaster 360, and Expeditions.

3. Augmented Reality
Augmented reality is a technology that superimposes computer-generated images on the real world, and it has a range of potential applications in education. For example, AR can be used to create virtual field trips that allow students to explore historical sites or natural habitats without leaving the classroom. It can also be used to bring lessons to life, allowing students to interact with three-

dimensional models of molecules or historical figures. In addition, AR can be used as a tool for assessment, providing instant feedback on students' work. As AR technology continues to develop, it is likely that its use in education will become more widespread.

4. Chatbots

Chatbots include things like Siri and Alexa. Adding these chat bots to educational apps helps to make the learning process more interactive and thus far more engaging for the students. They keep in mind the interests of the student while delivering them the knowledge. They also help in converting lecture and information material to conversations and messages. Thus, they help to increase students' understanding and help to provide them with a unique learning experience.

Mobile applications used for teachers

Many schools and colleges have already started in-person lessons, but several educational institutions have also continued online classes. Some have introduced a hybrid model of teaching where some lessons are taught in person and projects are completed online. Whichever group you fall into, one thing is for sure: educational apps are helpful in making learning easy, fun, and convenient and keeping students engaged. Whether you prefer fully online teaching or like to blend tech and in-person learning, these apps can help.

3. Videoconferencing

Zoom is a powerful cloud video conferencing platform that allows you to host "meetings" with hundreds of participants. Using the Zoom app, educators can share lesson plans, give instruction, swap files with students, and communicate directly with the group or individuals via chat, all within the app. The free version of the app supports unlimited one-to-one meetings and a 40-minute time limit on group meetings.

4. Quiz

Quizlet lets you create free flashcards to make learning more effective. The app is free to use and offers access to millions of study sets created by teachers and learners. You can also find solutions for various problems across 64 subjects, all written and verified by experts. The app also offers study modes and in-class games so teachers can keep the students engaged throughout the lecture. If you upgrade to the QuizletPlus plan for teachers, the app offers special tools for educators to track which students started or completed their study sessions and which ones need help. You can also add custom images, audio, and diagrams to make the lessons more interactive.

3. Motivational

Teachers love to turn a boring lesson into a game to motivate their students, but not everyone has the skills to make a game from scratch. Kahoot app to use as a buzzer to join in on the fun. As a teacher, you can find millions of ready-to-play kahoots on any topic, so you don't have to spend valuable time creating lessons for each subject. You also get custom reports to track your students' progress. The app is free to use, but you can buy optional upgrades to unlock puzzles, polls, open-ended questions, and slides.

Achievement

Parents want to celebrate their children's achievements every step of the way, so it's important to keep them in the loop on their kids' progress throughout the school year. With **Seesaw**, a student portfolio app, kids can store and post their best work to share with their parents. Teachers, on the other hand, can provide concrete examples of their students' strengths and areas for improvement to their parents during teacher-parent meetings. Teachers can also find thousands of ready-to-teach learning activities to engage the students.

Books

Elementary school teachers are always on the lookout for new books for their students but worry about spending too much of their own money on their classrooms (With the **Epic Unlimited Books for Kids app**)

Classroom management

1.   Organization is key in the classroom, but it's not always easy. **Teacher's Assistant Pro** allows you to keep a set of behavior records for each student in your class, offering a quick method for looking up and noting bad behavior and letting you email specific incidents from the app's main interface. The app collects your entered data and stores the infraction or accolade, plus the date, time, location, images, class period, details, teacher action taken, and any parental involvement.

Groovy Grader lets you update your technique for calculating that all-important bottom line for students, parents, and you. Groovy Grader replaces your paper grading calculator to provide more flexibility in figuring out the most accurate and fair grade you can bestow. You can configure it for hundreds of questions and have it display grades as whole numbers or with an added decimal place. The app lets you view grades for number correct, number wrong, and half points with convenient color-coding.

Attendance

Teachers can use it to draw up a list of attendance in their various classes, and to help them keep track of the studies and classwork of each individual student. This app also allows a photo to be added to each name so that the teacher can better verify and follow the necessary information (**Teacher Aide Pro**).

Conclusion

Using mobile apps can help learners develop critical thinking skills. A formative assessment tool is convenient, accessible, and inexpensive, as well as supporting the learning environment. Information and communication technology (ICT) is one of the most important changes in teaching and learning. Now, thanks to technology advancements and mobile phones with feature-rich features, students can learn at their convenience just a click away. In the teaching and learning process, mobile Teaching and Learning an important role. The use of Mobile Applications in Education can offer various benefits to the learning environment. Mobile phone enables teachers and students to share their knowledge and experience at any time anywhere. Implementation of Mobile applications in education plays a significant role in changing the traditional teaching learning process. Mobile learning has gained importance in higher education sector because most of the students own their own mobiles. Now a day's students need digitized materials and also they want soft copy of notes and power point presentations. Students depend more on internet, e books and mobiles for clarifying their doubts. So Mobile Apps play a significant role in the teaching learning evaluation process.

References
1. https://infinitylearn.com/surge/blog/general/traditional-vs-modern-education/
2. https://www.vidyalankar.org/blog/benefits-of-mobile-apps-in-education
3. https://myelearningworld.com/mobile-apps-in-education/
4. https://www.teacheracademy.eu/blog/online-apps-tools-for-teaching/
5. https://elearningindustry.com/8-nifty-mobile-apps-for-teachers-happy-teachers-day
6. https://www.simplilearn.com/tutorials/artificial-intelligence-tutorial/augmented-reality-apps