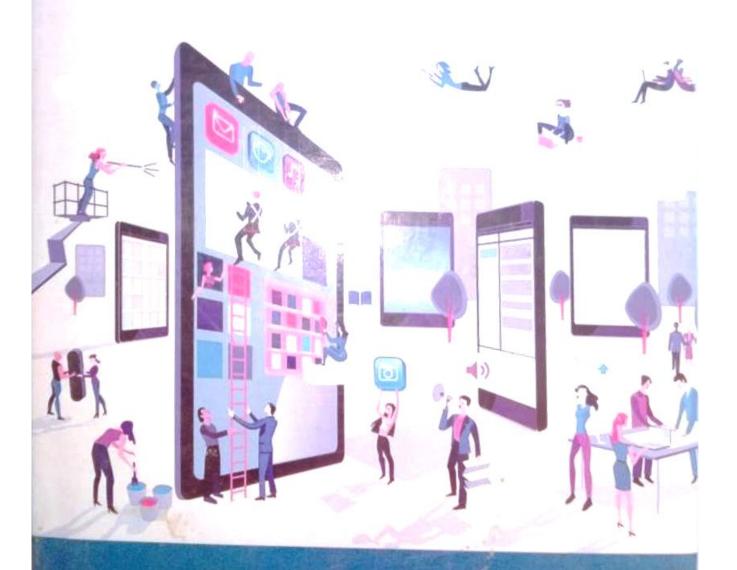
Changing Dimensions of Libraries in the Digital Age



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Application of Mobile Technology in Libraries

Vaishali M. Choudhari

one connects and interacts with the world. The chapter discusses the application of mobile technology in libraries essential part of our life and they are changing the way mediated communications. Today, mobile phones are and its services. E-mails, blogs, instant messaging, social networks, mobile phones, multimedia, software, games and apps, twitter and video conference are forms of technology everyone's life. They are inseparable from each other, The various technology utilized equipments are computer, Today, technologies have become integral part of

Keywords: Technology, Mobile, Libraries, Services, etc.

Introduction

technology has provided faster access to information and that's services by adopting the technological changes. why it is a challenge for libraries to rethink and remodel library Dynamic nature of technology has significant impact on every the services. Both libraries and technology are growing organisms. other information and communication rechnologies to improve aspect of modern life. Advent of information and communication technology developments whether it is automation or adopting Libraries have always set examples of experimenting with new

> work. Mobile phones have gained importance throughout the world Since last decade, mobile phones have changed the way of life and Mobile technology is developed for communication purpose

technologies. They access whatever information they required connected all the time. Social networking apps, like whatsapp through mobile phones. Most of them are using Internet to stay youth. Students are very interested in learning and using these throughout the society. facebook erc, are not only popular among students but also Mobile phones are gaining more popularity among

What is Mobile Technology?

technology that is portable. Examples of mobile IT devices include: Mobile technology is exactly what the name implies-· laptop, tablets and net book computers

- · 'smart phones'
- global positioning system (GPS) devices
- wireless debit/credit card payment terminals.

communications technologies, including: Mobile devices can be enabled to use a variety of

- Wireless fidelity (Wi-Fi)—a type of wireless local area network technology
- Bluetooth—connects mobile devices wirelessly
- · 'third generation' (3G), 'fourth generation' (4G). networking services for mobile phones general packet radio service (GPRS) data services—data global system for mobile communications (GSM) and
- dial-up services—data networking services using modems and telephone lines
- virtual private networks-secure access to a private network.

It is, therefore, possible to network the mobile device to

Present Scenario of Communication

home, office, or the Internet while travelling.

different types, styles, models and with many inbuilt teatures the market from smart phones to multimedia phones with There is wide range of mobile computing platforms in

and capabilities likes cameras, touch screens, bar code scanning, Wi-Fi, Bluetooth, instant messaging, GIS/GPS, RFID, operating system varying additional storage space, etc. Revolutionary iphone and smart phones (3G and 4G) can be used to run many software applications including Internet access with faster connection speeds. Availability of automatic configuration of GPRS-enabled mobile phones, which help the subscribers to be come online with few clicks.

Emerging technologies like speech technologies in mobile phones have enabled the disabled persons to use mobile effectively.

The M-Learning Development in India

'Libraries in hand' are the latest slogan of the Indians' libraries. People in India have an insatiable thirst for information and knowledge. Moreover, mobile services in India are quite affordable; hence, even an ordinary person can own and use a mobile phone. Added to this fact, India happens to have its large population in the age group of 18 to 20 years.

Technology is vital in today's world and makes everything easier. It has transformed our ways of communicating, socializing, playing, shopping and everything we do. These profound changes are putting increased pressure on the traditional models of teaching and learning. Due to ever increasing and diversified needs of the students, technological advancements are also taking place in the field of education every day. While e-learning is still being used as a supplementary tool to the conventional forms of learning, a new method of knowledge addition called m-learning has emerged in the global scenario.

M-Learning refers to the provision of education and training involving portable or mobile device such as smart phones, personal digital assistant, palmtops, I-pods, digital camera, pocket computers, mobile phones etc. Mobile device provides significant opportunities to help learners become more autonomous and also have the potential to change the delivery of teaching and learning in higher education. Mobile learning process can both complement and conflict with the formal education processes. On the positive side, learners can extend their classroom learning activities to homework, field trips and museum visits by reviewing

application of Mobile Technology in Libraries

teaching materials on mobile devices and/or collecting and teaching information using handled data probes. Liak (2011) analyzing information using handled data probes. Liak (2011) believes that mobile learning is about changing the way we teach with the way student's best learn.

with the way In India, total users of telephone (wireless and landline) are In India, total users of telephone (wireless and landline) are 1058.01 million till May 2016. India's telecommunication system the second largest in the world and in terms of Internet usage, is the second largest in the world next to China and United States, India is third largest in the world next to China and United States, India is third largest in the world next to China and United States, Nowadays 3G mobile users are shifted to 4G device for effective Nowadays 3G mobile users are shifted to 4G device for effective nultimedia based m-Learning. Major mobile manufacturers such as Nokia, Sony Ericson and Motorola have linked up with service as Nokia, Sony Ericson and Motorola have

Library Services that can be Provided via Mobile Technology

SMS notification services: Libraries may provide the alerts on latest news, events and notices via SMS and alerts on latest news, events and notices via SMS and MMS to the users wherever they might go. The users can get notified instantly with notice alerts on bringing new books to the notice of users for suggestion, intimation of arrivals of intended documents of users, informing availability of reserved documents for informing availability of reserved documents for collection, appraising about overdue books, outstanding fines, reminders to return library items, renew books, library circulars, e-journals subscribed, change in timing, information about important events etc.

• Formal education, distance learning and E-Learning:
Students are very versatile in using their mobile phones
and various mobile applications. Academic libraries
and harness the advantage of implementing of library
services through mobile device to support distance
services through mobile advantage of implementing the information

using integrated library management system software.

SMS messages can be sent to group of users simultaneously through many free applications, and

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universities, scientific community or other parrons blend with teaching and research practice of collegest resources ubiquitous. Library services should also

 Database browsing: Libraries provide access to a find books and other materials available in their local mobile application pilot allows users to search for and search, and original document search. OCLC's Worldcar from a PDA or a smart phone. libraries through a web application they can access OPAC (Online Public Access Catalogue), integrated specifically for mobile viewing. This service includes just enter search terms and see results that are designed variety of its resources and databases. The users can

My library: My library is a personal library space where searching, etc. delivery requests, set up email notice of new books users can find information and resources of their choice. and journal's articles, set up reference for catalogue request items, track interlibrary loan and document Users can read alerts, check records, renew resources,

E-Resources with mobile interfaces: Some publishers devices, such as iPads, Android device and Kindle. terminal within the campus, as well as on mobile accesses to the library subscription from any Internet audio. Most of the e-books publishers provide 24 x 7 (MMS) on mobile device to share photos, videos and for download and also transferable to mobile devices and digital resources. A large collection of audio books, mobile phones. It offers access to a variety of databases are already delivering e-books that are accessible via Libraries can make use of multimedia messaging service both free and subscription based services are available

Library guide: Libraries can give users the best of library content in a way that works best for users. If users guide information such as library use guide, question answering service and library statistics delivering rich

> Application of Mobile Technology in Libraries help, they can get a last response from the library via have questions, and want to contact the librarian for

the mobile device and find the appropriate information

Mobile document supply: The mobile environment online marketing, and online transaction processing, administrative operations. It can support electronic the use of collections as well as the automation of document requests and scanned images, and monitoring and technology presents new opportunities for sending management systems. fund transfer; supply chain management, e-marketing electronic data interchange and automated inventory

of enquires, that slows down the responses, such as Text reference service: If the library receives high volume articles/references in real time, librarians can provide instant answers, and links to dictionary definitions, facts or service information then

 Library virtual/audio tours: Library virtual/audio tours. different geographical locations. Library users, who and also help the remotely located or users located in quite significant in bringing the non-users to libraries instruction/induction/orientation programs have been access to library tours on their mobile device. don't have time to attend on-site workshops, can get

 QR codes on mobiles: QR codes stands for 'quick store url's, text, etc., known as mobile tagging response' and basically two dimensional bar codes that can contain any alphanimeric text and often used to

Skills Required for the Library Staff

they wish to provide mobile based services: Librarians should acquire and apply the following skills, it

Skills relating to training and user orientation to market these services to the users.

mobile friendly web pages and third party intermedian Skills for interacting with users via smart phone applications,

as more personalized information is involved in using for Develop expertise in protecting privacy and security levels Knowledge of hardware and software of mobile devices. PRINCES ARRAPH

SMS and spain preventing etc. Familiarity with Internet/intranet services like using emails,

Conclusion participative library homepage, OPAC, virtual tours, and database. Create mobile optimized content including interactive and

communication purpose. Mobile phones have gained importance our lives nowdays. Mobile phones were developed primarily for for the need to acquire skills to realize the associate benefin. implementation raised strong awareness amongst library staff nut at their desktops PCs. The impact of mobile technology any mobile device wherever and whenever they choose, nor and library services and truly engage in learning activities using way. New, students can access a wide range of digital resources have potential to facilitate teaching and learning process in a great transact and innovate. Mobile device and mobile technologies in both the developed and the developing countries. The mobile phones are a device that enables users to communicate, connect, Mobile Technology has become a very important part of

used as a tool to spread learning across the country, we will witness a situation in which the mobile will definitely be scenario, mobile libraries have the potential to proliferate, and academic industry, corporations and government. In the current have to grow, and this requires greater collaboration between mobile device as a part of their strategic thinking. Mobile libraries be indispensible their users, and for this, they have to include component in everyday learning. Indian libraries are needed to methods of education delivery and integrate ICT as an essential adoption of m-learning technology in coming years, owing to the M-learning will bring about a paradigm shift from the traditional the next hig wave, which will revolutionize education in India. to e-learning, and now, from e-learning to m-learning will be Indian educational industry is evolving. The shift from d-learning number of young users involved in multimedia mobile usage. The India may be come one of the leading countries in the

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