

EMERGING TREND AND TECHNOLOGIES IN LIBRARY AND INFORMATION SERVICES IN DIGITAL AGE

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ABSTRACT

Libraries have to experience the aspiration in switching to new technologies. Unquestionably the implementation fees are going to be crucial for just about any sort of new technologies for those library categories particularly academic libraries. It's a typical established fact that digital engineering makes space for itself in each and every area as well as sphere of life. In this modern-day era, all of the libraries store info not just in the type of books, but also in the form of sound, other multimedia solutions and video. This particular report offers an overview of the implications and technology trends of the for libraries of tomorrow and today.

I. INTRODUCTION

The web as well as web technology has transformed the way individuals speak, search, share knowledge, acquire, interact, investigate as well as take part in the formation as well as reuse of information. Nevertheless, once the Web was developed initially, it didn't have amenities as well as functions for users to interact. Put simply, Web 1.0 started as a platform for organizations as well as companies to broadcast info to the individuals. With evolution in Internet as well as correspondence technology,

The latest world is a planet of emerging technologies, since it's impacted all spheres of the lives of ours. Digital technology has revolutionized the business work of ours, transactions in banks, industries, education, simulation for instruction, company, health care, law, police, air carrier system as well as homes. As library is additionally an essential component of the town of ours, it's just as impacted by this technological revolution. A researcher states that the effect of technology on almost all levels of library

operations can't be underestimated. In the age of 21st century, Library as well as Information Science professionals should be conscious of emerging technologies. The librarians have to have technology based abilities to handle the contemporary obstacles. An author explains that info explosion, shrinking spending budget as well as price hike of documents,

change in the medium of lack and publication of enough staff are actually the main reasons that necessitate dependence on newest technologies in faculty libraries.

With the creation of the info age as well as the major change of library materials, means and media of access to info, the dynamics of some kinds of construction devices have changed appropriately. Probably the most remarkable of those modifications was the evolution of developing communications and its associated gear into the wide category of technology systems. Engineering systems in a construction now encompass any digital gadget, digital media, routing products, operating systems, digital

networks & servers, audio-visual methods, cabling methods and digital wireless products, which are used to offer access to energy sources of digital info, modify this info, or perhaps generate info. The technology infrastructure is actually the title typically provided to operating subsystems, the control, and the equipment, the network connections, as well as the cabling of the entire engineering system as it resides in the structure. The building's technology infrastructure is actually linked to energy products outside the building, like cable or maybe telephone service; this new service is actually described as the technology energy.

The changing role of Libraries

Libraries are actually organized collection of monographs, other sources and periodicals of documented info. They generally include catalogues, directories which provide information that is factual as well as indexes which assist users to locate info in energy sources that are some other for the final several years, libraries began offering access to info in electric platforms like CD ROMs, Around the world Web along with online databases.

The standard role of libraries has constantly been as an intermediary between the info producer (and the computer user and publisher). For the info producers, libraries acted as a clearing home of things. Information producers would usually supply the library with the products of theirs, therefore cutting back on expense as well as issues administrative of providing the products straight to users. For the user, libraries are actually effective instruments to make available making of restricted set of info supply that is

pertinent out of the whole universe of publications. Libraries serve as picky filter as well as quality instruments, making accessible to users just those publications which are sufficient and relevant to end users. Since publications are acquired although library funds, info is generally made offered to end users possibly totally free of charge or perhaps at a minimum price.

II. THE CURRENT TRENDS OF LIBRARY SYSTEM

Library is a great storehouse of info. Emergence of Communication and Internet Technology (ICT) libraries has been acquiring various methods of the identical and method of service is actually modified. Thus, various kinds of library:

Hybrid library The hybrid library is actually a phrase used for describing libraries that contains a mix of regular print library resources as well as the increasing number of electronic information. Hybrid libraries are actually mixes of printed magazines and books and electric substances such as for instance downloadable audio books, electric journals, e-books, etcetera. Hybrid libraries are the brand new norm in many public as well as academic liberties

Automatic library

A library where access points as well as housekeeping operations are actually computerized is known as an automatic library. The graphic files continue to be print-on-paper publication

Digital library

A library in which a major proportion of the materials are actually available for sale in machine readable format (as opposed to

microform or print), accessible by means of computers.

III. EFFECT OF INFO TECHNOLOGY ON LIBRARY SYSTEM

Developments in info technologies as well as improvements in telecommunications have revolutionized the worldwide information society. Innovative methods have facilitated fast transformation of information, understanding as well as information into digital form. Being a result, there were changes that are considerable in the ways in which files as well as info are actually being saved, accessed, organized, retrieved as well as disseminated. These advancements have more resulted in the change of approaches followed by the libraries which today have to be innovative and user oriented. The libraries are now being converted with the improvement of the digital and electronic collections. With the improvement of hybrid and virtual libraries, the librarians have to develop new abilities & competencies. The reference librarian's connection with the users of its becomes more essential as the requirements of the users also getting transformed with the technological advancements. Libraries are providing education and support full to the users as well as facilitating them with genuine info resources using all of the readily available technologies. Information is currently being supplied electronically using email, image processing, online databases & e journals.

The creation of computer systems as well as telecommunication technologies are landmarks of the story of Information and Library Science. In the current times, librarians are actually exploring ways of supporting patrons in the emerging virtual communities including offering on the

internet and real-time reference service. By doing this, the end-user is able to get assistance from the reference librarian without physically beginning to the library. The terms 'Live reference', 'Virtual reference', 'Digital reference', 'Online reference', 'Electronic reference' and 'Remote reference' are usually utilized for quite similar services since all of them encompass all types of electronic means.

Components of E-information service

- Electric publications: The different features of electronic energy have given birth to e-publishing, that is based on a variety of parts.
- CD-ROM (Compact Disc Read-Only Memory): CD-ROMs are actually the best effective tool for retrieval as well as storage space of a huge level of info. They save shelf storage room as well as the publishing price is less.
- DVDs (Digital Video Discs): These change the CD-ROMs as the capacity of theirs is actually many times higher compared to the multimedia CD ROM.
- Internet Databases: Databases are actually the collection of data on magnetic media in pc readable form. This may be numeric and / or even textual info. OPACs, Electronic Journals are actually some databases. These databases give immediate access to the info.
- Multimedia Packages: Multimedia is actually an integration of text, graphics, video, animation and audio on a single medium and also provides quality to the compilation of the libraries.

- E-mail as well as Fax media: The electrical communication devices permit the transmission of pictures as pictures, maps, illustrations & printed newspapers on newspaper reproduction at the remote receiver.
- Internet: It's a worldwide network of computer networks which has a great collection of resources as well as info.

Disadvantages and advantages of e-info service

Advantages

- It provides much better access to a wider range of info.
- It's cost-saving as the e-services are purchased through consortiums.
- It leads to better use of staff time. n It leads to equal access.

Disadvantages

- It demands enormous investments, the start-up later investments and costs in technology.
- Savings might not be very much if Print subscriptions are additionally to be maintained or perhaps basically subscribed for internet access.
- Users might not be keeping the needed skills necessary to get the optimum advantage from an e- info service.

The libraries are able to evolve a selection of techniques to bridge gaps of expectations and tastes between librarians and users. The requirements as well as

tastes of the users must be recognized before beginning the digital services as the delivery of digital library services must satisfy users' needs. The users must be provided opportunities to acquire info retrieval techniques and users in addition have to draw required effort to enhance the competence of theirs in utilizing the digital service. The A C Joshi Library of Panjab Faculty at Chandigarh is actually providing a brand new condition to the info services that is being imparted to the users.

IV. SCENARIO OF THE DIGITAL AGE

We're in the digital age; the main job of info in this particular age is actually in a lot of digital circumstances. The main means of sharing info is actually the digital network. With the digital technology, info in different formats text, sound, video and electronic can easily be produced, saved, organized, accessed as well as transmitted with relative ease, as well as in types that any of us couldn't have thought of earlier. The digital age has brought about changes that are a lot of to libraries, several of these changes have been taking place prior to the launch of the web in the mid-1990s. The 1980s and early 1990 saw a lot of conversation of libraries on problems including print versus electric; access versus ownership, "mediated versus limitless web searching" as well as specialist deals with not bit by bit widened to incorporate electric licensing as well as consortia compilation development.

Today the digital age has brought numerous areas of library services. The card catalogue has been replaced with OPAC in most libraries, users today search for info from the desktop of theirs; users down stuff e-books on to the PDAs of theirs, full-text retrieval of info resources

is actually starting to be common area & services are more and more getting personalized and pay as usage.

V. SIGNIFICANCE OF TECHNOLOGIES ON LIBRARY

Access out of several resources: The crucial consequence of automation work was making access better to library users. In the days of card catalogues; library methods typically forced users to travel to the main catalogue or maybe a number of branches simply to find holdings. Today users are able to check with all holdings from workstations through the ca (and usually from home). This particular idea of access out of several locations has additionally impacted the usage of indexing & abstracting services.

Making info readily available in raw forms: The information types readily available to users in digital form have continued to develop. If perhaps we think about a bibliographic history to be a representation of an original guide or maybe article, then over the past ten years we've been providing users with progressively truer representations (i.e. representations which are closer and close to initial raw material).

Diminishing roles for intermediaries: The good results of library automation has meant that users frequently interact with web-based methods, and also have less reliance upon library staff. Today a lot of library methods permit users to verify circulation info without actually contacting the circulation device, as well as usually users, are actually making user requests without mingling with a library staff member.

The crucial difficult regions for libraries of an internet age

A number of societal trends hold the potential to seriously impact libraries, especially as these move into the internet info delivery atmosphere. components that are Crucial with these trends is actually the motion out of flat fee pay to pay-per-use version, best-seller phenomenon, the consolidation of electric info distributors, erosion of provably, and problems of cultural diversity and access.

Flat fee Vs pay-per-use: The movement towards pay-per-utilize design is actually apt to seriously impact user behavior, especially as this starts penetrating web-based delivery methods. Pay-per utilize models tend to discourage exploration and motivate viewers /readers to look at things that others have deemed famous (favouring best sellers over much more esoteric works). Libraries 1980s practical experience with pay per use online indexing and abstracting services led by a lot of librarians to embrace newer flat-rate type which arose like CD - ROMS

Bestseller phenomenon: Economies of scale make mass distributed info cheap as well as accessible, and may result in an atmosphere in which scaled-down market info is harder and expensive more to find over time this might well lead to the favouring of electric delivery of entertainment over delivery of info.

VI. CONCLUSION

Libraries require proper funding for the provision of effective and standard info services to the users. This particular budget must be made available to the faculty libraries for obtaining needed hardware as well as software infrastructure. Well-defined preparation

for the utilization as well as categorization of this particular budget is provided due value.

Uses of Web technologies in libraries will lead to a substantive and meaningful change of libraries, its methods, services, and collection of delivery of services. The library's collection is going to change, getting more and more active also completely accessible. The library's services are going to change, focusing a lot more on the facilitation of info transfer as well as info literacy instead of offering access that is controlled entry to it. The implications of groundbreaking technologies are overwhelming. Librarians are just starting to accept as well as abide by several of these technologies into the libraries of theirs.

REFERENCES: -

- [1] Sheik Maideen and Olugbenga Charles Oke (2019) "A Study on Emerging Technology trends in Academic Libraries: An Overview" Reshaping of Librarianship, Innovations and Transformation, ICRLIT – 2019: e-Proceedings
- [2] S. Barathi, G.Loganathan&Dr. V.R. Rajan (2017) "Emerging Technological Innovations in Library Knowledge Management and Services" Advances in Computational Sciences and Technology ISSN 0973-6107 Volume 10, Number 5 (2017) pp. 1479-1486
- [3] Dr. Saeed Ullah Jan &Dr.RafiaA.Sheikh (2014) "IMPACT OF EMERGING TECHNOLOGIES ON UNIVERSITY LIBRARIES OF PAKISTAN" International Journal of Digital Library Services IJODLS | Geetanjali Research Publication 56 Vol .. 4, July-Sept 2014, Issue 3
- [4] Bhardwaj, Raj Kumar. (2014). Use of social networking sites by LIS professionals in higher education institutions in India: A study. The Reference Librarian, 55 (1), 7488. DOI: 10.1080/02763877.2014.855604.
- [5] Arif, Muhammad & Khalid Mahmood. (2012). The changing role of librarians in the digital world: adoption of Web 2.0 technologies in Pakistani libraries. The electronic library, 30(4).
- [6] Bhatti, Rubina (2010). Internet use among faculty members in the changing higher education environment at the Islamia University of Bahawalpur, Pakistan. Library Philosophy and Practice Available: <http://www.webpages.uidaho.edu/~mbolin/bhatti3.pdf>
- [7] Li, Lili. (2009). Emerging Technologies for Academic Libraries in the Digital Age. 10.1016/B978-1-84334-320-2.50004-6.
- [8] NEERU BHATIA RANJANA VOHRA (2007) "TRENDS IN REFERENCE AND INFORMATION SERVICES IN THE ELECTRONIC ERA: A CASE STUDY OF A C JOSHI LIBRARY, PANJAB UNIVERSITY, CHANDIGARH" 5th International CALIBER -2007, Panjab University, Chandigarh, 08-10 February, 2007



- [9] Boyd A (2004). Multi-channel information seeking: A fuzzy conceptual model. Aslib Proceedings 52(2): 81-88.