Digital Library in the present scenario: An overview

Dr.M.Manjula	R.Keerthana
Assistant Professor, DLIS, Student Srimad Andavan Arts & Science College, Trichy - 05.	II M. Lib.I.Sc, Student Srimad Andavan Arts & Science College, Trichy - 05.

ABSTRACT Digital library system has the information in digital form provides access of information at anywhere at any time. Digital library provides effective and efficient services to the user community. Digital library increased the use of system based information. Nowadays digital libraries are being created today for diverse communities and in different fields including arts, music, medicine, science, education, culture development and health. In the correct use of Animations, engineering and upgrading current information about trend and technology. This paper discuss about the need of digital library and the necessity in future to managing the organisation

1. Introduction:

Today information is available in plenty. In this digital age libraries plays a vital role to the dissemination of information to the users. In the field of Research and technology flying the new high of invention. The Digital library is a collection of electronic documents are available on a internet. It is focused collection of digital document includes text, audio and video material..etc., apart from the traditional information, Libraries has the dominant role to provide organize and disseminate the digital information. Emergency of web technology has made easy to publish the digital information over the web. There are two types of digital information like born digital and to be digitized. Born digital means the available information is already in the form of digital content, and to be digitized means the available print materials to be digitized. Most of the publisher and the organization have started the collection in digitized and published the information over the web technology.

2. Definition:

The digital content may be stored locally, or accessed remotely via computer networks. An electronic library is a type of information retrieval system. The function of acquisition, storage, preservation, retrieval is carried out through the use of digital technology. A digital library is an organized collection of digitized material or Its holding in the digital form, which can be accessible by a computer on the network by using TCP/IP or other protocol. Digital library: It is a later stage of electronic library. In digital library high speed optical fiber are used for LAN and the access is over WAN and provide a wide range of Internet based services i.e. audio and video conferencing and like other. The majority of the holding of a digital library is in the computer readable form and also acts as a point of access to other on line sources.

3. Requirement for digital libraries

The Internet and World Wide Web provide the technological environment for the development and operation of a digital library. The Internet provides the TCP/IP , its associated protocol for accessing the information and web provide tools and technique for publishing the information over Internet. In the digital environment it is reasonable to say that a central back up or archive should be created at the national level, which will store information output of the region as well as information from outside the country.

Some of the requirement for a digital libraries are:

Audio visual: Color T.V., V.C.R., D.V.D., Sound box, Telephone etc.

Computer: Server, P.C. with multimedia, U.P.S. Etc

Network: LAN, MAN, WAN, Internet etc.

Printer: Laser printer, Dot matrix, Barcode printer, Digital graphic printer etc

Scanner: H.P. Scan jet, flatbed, Sheet feeder, Drum scanner, Slide scanner, Microfilming scanner, Digital camera, Barcode scanner etc

Storage devices: Optical storage device, CD-ROM, Jukebox etc.

Software: Any suitable software, which is interconnected and suitable for LAN and WAN connectivity with .PC.

Selection of software and hardware for the reasonable cost.

Technically simple to install and manage.

Open access
User friendly
4. digital library process;

Selecting	Based on user need, demand survey from web resources database, other link	First law
Collecting	Scanning, meta data entry, image	Third and fourth law
Organizing	Content Management / meta data HTML, XML, adopting standards &quality	Third and fourth law
Preserving	Long term preservation, Digital archives	Fifth law
Providing Access	Internet, world wide web	Forth

Digital library process like selecting, collecting, organizing, preserving and providing access to the information dissemination process. These processes reflect the father of library science Dr.S.R.Raganathan's five laws of library sci-

ence.

5.Advantages of the Digital Library

Advantages of Using Free Digital Library Traditional library or books are getting outdated by the day. A digital library is not confined to a particular location. The user can get his/ her information on his own computer, laptop, mobile screen by using the Internet. Actually it is a network of multimedia system, which provides easy to fingertip access.

No physical boundary: The user of a digital library need not to go to the library physically, people from all over the world could gain access to the same information, as long as an Internet connection is available.

Round the clock availability: Digital libraries can be accessed at anytime and anywhere, 24 hours a day and 365 days of the year

Multiple accesses: The same resources can be used at the same time by a number of users. There are more number of people accessed same site at same time is possible.

Structured approach: Digital library provides easy approach to the user for belonging their user category and then information update immediately. The materials accessed in a different location at the user friendly information dissemination.

Information retrieval: Digital library will provide very user friendly interfaces, giving click able access to its resources. OPAC (online public access catalogue) provides searching facilities like author search, title search, keyword search to get the correct information retrieval from the available resources in the library.

Digital Preservation and conservation : digital preservation can be copied without errors. Preservation and conservation   of available resources to the next generation users.

Save storage Space: We are facing the very big problem for spacing the document stored in our library; digital library can remove this problem for easy storage and retrieval. Requires very little physical space to contain information in digital library

Networking: A particular digital library can provide the link to any other resources of other digital library very easily thus a seamlessly integrated resource sharing can be achieved.

Cost - The cost of maintaining a digital library is much lower than that of a traditional library. A traditional library must spend large sum of money   spending for print materials, book maintains, rent, and additional books like back volumes and other preservation of print materials is too costly to maintain. Digital libraries do away with these fees.

information retrieval; Provides user-friendly interfaces, giving clickable access to resources. Use any search term such as word, phrase, title, name, subject to search entire collection.

Disadvantages of the Digital Library

The computer viruses, lack of standardization for digitized information, quick degrading properties of digitized material, different display standard of digital product and its associated problem, health hazard nature of the radiation from monitor etc. makes digital libraries at times handicap.

Copyright: - Digitization violates the copy right law as the thought content of one author can be freely transfer by other without his acknowledgement. So One difficulty to overcome for digital libraries is the way to distribute information. How does a digital library distribute information at will while protecting the copyright of the author?

Speed of access: - As more and more computers are connected to the Internet its speed of access reasonably decreasing. If new technology will not evolve to solve the problem then in near future Internet will be full of error messages.

Initial cost is high: - The infrastructure cost of digital library i.e. the cost of hardware, software; leasing communication circuit is generally very high.

Band width: - Digital library will need high band for transfer of multimedia resources but the band width is decreasing day by day due to its over utilization.

Efficiency: - With the much larger volume of digital information, finding the right material for a specific task becomes increasingly difficult.

Environment: - Digital libraries cannot reproduce the environment of a traditional library. Many people also find reading printed material to be easier than reading material on a computer screen.

Preservation: - Due to technological developments, a digital library can rapidly become out-of-date and its data may become inaccessible.

Digital Library and the Resources

Digital technology has forced the librarian in to information dissemination process. Digital objects can be text, images, sounds, multimedia data set, software, a text and these information is available in other file formats like plain Digital technology has forced the librarians to make a decision that what information should be acquired, how it should be preserved, to whom the access facilities should be provided. In digital libraries these decisions are complicated by number of factors. Digital objects can be text ,images, sounds, moving images, multimedia data sets, software and theses information are available in many file formats such as plain text such text , word , postscript , PDF and marked up in the HTML or another SGML or XML document types.

Digital library services:

According to (Bernard, 2006)says digital libraries are the relationships between producers, users, documents and technologies are key elements for best services, He found that libraries provided a excellent environment for service science to investigate new ways to produce importance for users. He recommended to integrate digital library services and library services using digital resources to provide original services, (Ganaie, 2003) Identified   the problem guidance on the usage of the resources, as well as confusion and in consistency in terminology usage across different library services. Analyzing the different in accessing digital content. (Bagudu and Sadiq, 2013) (Ramakrishna, 2009) describes the setting up of the digital library at the JSW Steel Ltd., which   provides users a single window access to structured information from their desktop. He has found that digital library has helped in saving users valu-

able time and enabling library staff to create and provide more effective information services to the users. Further he identified digital library of undergraduate teaching materials in science, mathematics, technology and engineering (SMETE) education that is being developed to improve the quantity and quality of digital teaching resources, which provides service to the faculty across the country who have created a wealth of digital resources for teaching and are willing to share them. It also supports faculty to find related resources. Vidyanidhi, the Indian Digital Library of Electronic Theses initiative, is mentioned that vidyanidhi digital library project demonstrate the utility of digital library technologies to maintain, enhance access and increase visibility of Indian academic research. They have also discussed about various issues related to project design, development and management. (Southwick, 2006) mentioned about national digital library for electronic being developed to improve the quantity and quality of digital teaching resources, which provides service to the faculty across the country who have created a wealth of digital resources for teaching and are willing to share them. It also supports faculty to find related resources. Vidhyanidhi digital library project demonstrate the utility of digital library technologies to maintain, enhance access and in

crease visibility of Indian academic research. They have also discussed about various issues related to project design, development and management. (Southwick, 2006) mentioned about national digital library for electronic theses and dissertation (BDTD) built based on the Open Archives Initiative. He also mentioned that, BDTD has been integrated with the international initiative: the Networked Digital Library of Thesis and Dissertation (NDLTD). (Ghosh, 2009) examined the developments in ETD repositories, in particularly PhD thesis repositories, in India and performed a preliminary study to explore the possibilities for creating a national repository for the deposit, discovery, use and long-term care of research theses in an open access environment. He found that digital preservation of theses and dissertations is already in progress, though some of them are still in a preliminary stage. He proposed to construct a reservoir of extensive doctoral research and an Indian portal to enable preserving of scientific and technological research materials in the country and to provide global view of Indian institutional research assets. (Wenqing and Ling, 2013) discussed about China Academic Digital Library Information System (CALIS) a national digital library for higher education, which provides services and access to resources containing more than seventy million records of all kinds of information such as bibliographic data, theses and dissertations, conference papers, preprints, courses, pictures, audio and video material, scholarly web pages, etc, to all 1,800 Chinese academic libraries and universities. It offers many services like centralized information search service, inter-library loan and document delivery, information consultancy service, collaborated Q&A service etc.

Conclusion:
Digital library services are been conducted to upgrade the trends and technologies to initiative new services. The advancement of the digital resources available in the form of e book, e journals, and e-thesis, databases, web-blog, Institutional Repository, Information on websites, Information on internet have raised the challenges to manage the information resources are the most valuable and potential to the user needs. We need digital library for the present digital world for information collecting, sharing organizing and dissemination form the right information from the right user with right time says by our father of library sci-

ence hero Dr.S.R.Ranganathan's real words. We need digital library to renew the original ideas of our

[1]ancesters who were living in the 18 th and 19 th century precious resources are kept some churches, mosques, and our traditional temples. We need more funds to keep these things to be digitized and redirect to the next generation users.

References:

1. **Borgman L.Christine, (1999)**, what are digital libraries competing visions, *Information*
2. *Processig and Management, 35,227-243.*
3. **Roopa E & Krishnamurthy M.** Perspective of digital library services: A review.
4. *International Journal of Next Generation Library and Technologies.* (1-19).
5. **S.A.Ganaie (2013).** A glimpse of Information technology enabled library services.
6. *International Journal of Library Services* 3(1), 78-82.
7. **Ghosh, M. (2009).** E-theses ad India academia : A case study of nine ETD digital libraries
8. and formulation of policies for a national service. *The International Information & Library Re*
9. *view*, 41 (1), 21-33.
10. **Krishnamurthy M &Chan, W.S. (2005),** Implementation of library portals for information re
11. sources: a case study o the Indian statistical institute, Bangalore (ISIB) *International Information*
12. *and Library Review, 37 (1), 45-50.*
13. **Lakshmi S. (2010).** Recent trends in Library Science, New Delhi-110002. *Sarup Book Publishers*
14. *Pvt. Ltd.,*
15. **Baldonado,Michelle et al.** The Stanford Digital Library Metadata Architecture? 1-15