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Digital Libraries Planning, Designing, Preservation, and Developing

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Abstract

ICT has come to change the face of digital library functions. The library has an electronic library that is a collection of big data in a form of digital and diverse repositories of digital objects the user has using in the internet era and the library was creating digital form. Internet and distributed network systems created scope for the pioneer in the area of information system and its some related sectors. Digital library one of the most current development changes in library work, which helps its users and readers to seek information through search engines. The Digital library is organized library assets and liability with the support of computers and other electronic devices. It helps library staff and services and a place where the information is kept in digital form and can be changed and developed in the library. Since the last decade's pioneers are focused on the reader and users of digital libraries to develop more efficient and more effective material showing in the library through digital devices. The goals of this paper presented are to provide literature on the digital library with respect to its digital library. Researchers are working on the system of the new versions of software and the connecting of new technology.

KEYWORDS: *Digital Library, ICT, Digital Preservation, Traditional Library.*

Introduction

The idea of easy, to use of fingertip access to information what we concept as digital libraries. With the advancement of information and communication technology resulting in an information explosion and the information being gathering and generating from different methods and formats has further created have in providing cost-effective information services to the user community. Digital libraries will start gaining ground in India in the present decade. We are heading to surround the area in which digital information may substitute for much printed and digital form of libraries. A library's existence does not depend on the physical form of reading materials and other reference material. Digital library resources are like other library material in many ways they are selected acquired, cataloged, managed explained and promoted to readers, evaluated preserved withdrawn and canceled materials.

The Digital library is a source that rebuilds the knowledge and support of the conventional library in digital form. So that the digital library is organized assorted of information, with its supported services and providing material and a place where the data or information is kept in digital format and can be retrieved over a network. In the digital library information is stored as a digital object a primitive idea of a digital object is that it is just a set of bits, but this idea was too simple. The content was of even the most basic digital object has some structure and information such as intellectual property right. Must be associated with that digital object. Creating a digital library takes time, efforts, hard works, and resources, but the tools are available, thanks to the popularity of the digital movement.

Definition

A digital library is a library in which collection are stored in digital formats (as opposed to print microform or other media) and accessible by computers. The content may be stored locally, or accessed remotely. The published use of the term may have been in 1988 report to the corporation for national

research initiatives. The term was first popularized by NSF/DARPA/NASA Digital Libraries initiative in 1994. Bush (1945) created a vision based on experience (“Digital library.”)

“Digital libraries are organization that provide the resources, including the specialized staff, to select, structure, offer intellectuals access to, interpret, distribute, preserve the integrity of, and ensure the persistence over time of collection of digital works so that they are readily and economically available for use by a defined community or set of communities” -By Digital Library Federation offered in 1998

Traditional Libraries	Digital or Electronic Libraries
Print material	All resources in digital form (electronic form)
Stable, with slow evolution	Dynamic and ephemeral
Scholarly content with validation process	More than scholarly content with various validation process
Limited access point and centralized management	Unlimited access points, distributed collection and access control
The physical and logical organization correlated	The physical and logical organization may be virtually
One way interaction	Dynamic real-time dialogue
Free and universal access	Free as well as cost based
Cataloging at high level rather than one of detail	Cataloging down to individual words
Browsing based on physical proximity of related materials	Browsing based on hyperlinks, keyword, or any defined measure of relatedness material on the same subject don't need to be near one another in physical sense
Individual object not directly linked with each other	Multimedia and fractal object
Material available only open the library	Digital libraries can be accessed at any time, 24/7 hours a day and 365 days of the year
One copy of book available in library	In digital libraries has multiple copies are available in digital format

Characteristics of Digital Libraries

Digital library collection contains permanent documents. The digital environment will be enable quick handing and ephemeral data and information. Digital library are based on electronic technologies. The assumption that digital libraries in only digital format materials are available in library. Digital libraries have often to use by individual working alone. Digital libraries are libraries without walls; they do not have geographical barriers for access. However, they do have boundaries in respect of content and purpose.

1. The digitization of the information resources
2. The internet of the information transfer
3. The share of the information
4. The knowledge of information supply
5. The fictitious information object
6. A digital libraries is collection of text, image, PDF, or data that has been digitized
7. A digital library is should have a system to index and navigate or retrieve information.
8. A digital libraries have at least one specifically community readers.
9. Copyright issues
10. Standards
11. Design is readers centered.

Functioning of Digital Libraries

- Create, maintain, manage, access, and preservation of digital content.
- The information repositories are created by producing the information contained in digital form or conservation the print to digital form, stored in multimedia repositories.
- Made it available through the internet or from another server to the workstations
- Access to large amounts of data readers wherever they are and whenever they need it.
- Access to primary information sources.
- Support all types of multimedia.
- Users friendly for software handling.
- Using hypertext and hyperlinks for navigation for digital library.
- Using client server architecture.
- Advanced searching libraries material
- Using a inter libraries loans.
- Integration with other digital libraries.
- To provide a user friendly interface for readers.
- To secure the libraries data.

File Format for Digital Libraries

Image	Videos	Audio
BMP	AVI	MIDI
JPEG	Quick Time (mov/qt)	WAV
PNG	MPEF/MPG	MP3
GIF		RAM/RA
TIFF		

Purpose of Digital Libraries

- ✚ The minimum cost of using reading materials
- ✚ Promote efficient delivery of data or information financial to all readers
- ✚ Encourage business efforts in research resources, computing, and communication network.
- ✚ Strengthen communication and collaboration between and among education institutions and academic services.
- ✚ Take leadership role in the digital era and dissemination of knowledge.
- ✚ The systematic and improve libraries service
- ✚ Developing of procedure to collect, store, and organize, data and information in digital form.
- ✚ Remote login
- ✚ Using World wide web
- ✚ Automated web search engines
- ✚ Email service providing new reading material arrived in library.

Components

- ✚ Digital collecting
- ✚ System function
- ✚ Telecommunication
- ✚ Human resources
- ✚ Infrastructure
- ✚ Content selection
- ✚ IPR and digital right management

- ✚ Digital libraries services and providing reading materials
- ✚ Digital resources organization
- ✚ Personal library system for the readers
- ✚ New readers as well as existing local or distant database readers.

Planning for Digital Library

A digital library has a committee that should be formed to plan for its creation of digital library and maintenance. The member must be from different library departments or different faculties, and if needed to consultants can be hired. There is a minimum of two ways of developing a digital library. Converting to the traditional library into a digital library, in a new trend in library and informant science and direct development of a digital library.

Planning involved

1. IT infrastructure
2. Digitization
3. Access
4. Staffing
5. Furniture
6. Digitization equipment and space
7. Services
8. Funding
9. Man power
10. Creating servers

Creating of Digital Resources

- A) Database of digital material that is open to all readers over the college campus wide LAN
- B) High bandwidth internet connectivity's.
- C) Focus selectively on acquiring digital resources.
- D) Electronics journals and gradual elimination of print subscriptions.
- E) Licensed data centers
- F) Creation of local digital content available within the college or universities.
- G) Online e-resources
- H) E—journals (full text and bibliographic)
- I) E-books
- J) Consortia
- K) Free books websites
- L) Providing reading materials in podcasts and audio format.

Digital Library services providing

The major digital library services includes

- ❖ OPAC to web OPAC
- ❖ Digital Reference services
- ❖ Library Chat room
- ❖ Electronic Delivery services
- ❖ Ask a Librarian
- ❖ Real Time Services
- ❖ Bulletin board services

- ❖ Frequently Asked Questions (FAQ)
- ❖ RSS Feeds

Digital Libraries: Indian Scenario

- N-LIST
- DAE Consortium (Govt. funded)
- MCIT Consortium (Govt. funded)
- FORSA Consortium
- INDEST-AICTE Consortium (Govt. funded)
- CSIR E-Journals Consortium (Govt. funded)
- UGC Info net Consortium (Govt. funded)
- Shodhganga
- Vidyanidhi
- (OAETD) Theses & dissertations

Advantages of Digital Library

- I. Anytime , anywhere access
- II. Count on portability to meet flexible needs
- III. Compatible with all major devices
- IV. Access eBooks offline
- V. Cost and time saving
- VI. More title through one resource
- VII. Supplement your collection
- VIII. Include your own copyrighted material
- IX. The access to information is not dependent on the patron being in one location
- X. Digital library need not be dependent on each reader having a particular type of computer or even a computer at all.
- XI. Digital library have been customized so readers can has access to what they want and need to use.
- XII. The librarian is in remote access of the selection of material for the digital library.
- XIII. Nearly unlimited storage space at a much lower cost
- XIV. Multiple access
- XV. Preservation for some print material
- XVI. Totally information retrieval.

Disadvantages of Digital Library

- A. Lack of screening
- B. Lack of preservation of a fixed copy
- C. Jobless for traditional publishers and librarians
- D. Financial costs are spread and become hidden.
- E. Access is an equity issue
- F. Enough but too many resources.
- G. Funding

Conclusion

There will be continuing expansion of digital libraries' activities. In the ICT era and computer science, professionals face challenges that will be improved libraries services. Some sort of work

regarding the digitization of libraries. It can be said that the best services through digital libraries and readers. It can be said that librarians working in digital knowledge domain are a specialist in the area of digital and information system and digital knowledge resources. Digital libraries present opportunities and challenges for the library and information community and all stakeholders.

The library and information center has come to the inhibitions and look ahead for the better service in our academic library. It seems that the days may not far when the whole world would have digital libraries interconnected to the reader and other service providing. However before digital libraries took over the library and information centers the country archives laws need to be changed in the libraries era and current challenges in the area of copyright protection of data and information prevention of corruption of data.

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