Virtual Libraries: A New Concept an Overview

Author

1) **Mrs. Vaishali Ekbote, Librarian, M V Mandali's College of Commerce and Science, Andheri West, Mumbai.**

2) **Dr. Ajit Sonawane, Librarian MES Wadia College of Engineering, Pune.**

Summary

Virtual Libraries will be very prominent twenty first century in view of the varied improvement records era virtual Libraries shops the substances, process and rework via virtual gadgets and networks into media server linked to excessive pace networks. The primary elements and usefulness of the virtual library is that its shops permanent files that are beneficial to people.

The paper is offered indicating the structures virtual libraries and its fundamental components, the want cause of digital libraries, ideas, definitions layout and also advantages of the use these libraries.

Advent: -

Current days virtual Libraries has come to be one of the foundation essentials of libraries. Digital Libraries may be defined as digital facts collection, containing massive and diverse repositories of digital gadgets. Virtual Libraries accessed by means of a big variety of geographically distributed customers. The term virtual Libraries covers the all new verbal exchange structures and digital generation has made dramatic modifications within the manner of libraries. Digital Libraries covers the introduction and distribution of all forms of statistics over networks. Virtual Libraries is growing unexpectedly it's far takes place at all degrees of libraries. Digital Libraries can be understood in isolation or without attention to the desires of the people who create and use statistics.

Records consists of information, textual content, pictures, sound, voice, codes, laptop programmers, software program and date foundation or microfilm or laptop generated microfiche. Virtual era can make the works of man permanently accessible to the billions of humans all around the international. Digital Libraries offers business enterprise control and application of approaches, assist for the management of records, associated with digital entities and long-time period maintenance. Virtual gadgets is text, images, maps, sounds, videos, catalogues and indices, scientific, business and government statistics units as well as a hyper textual multimedia compositions of such elements.

What's virtual Library?

A virtual Library is a group of records this is saved and accessed electronically. The data saved within the library must have a topic not unusual to all the information. As an instance, a digital library may be designed for laptop graphics, working systems, or networks. Those separate libraries may be combined underneath one common interface that deals with

computers, but it's miles vital that the records contained inside every library continue to be separate. The cause of a virtual library is to offer a significant region for accessing statistics on a specific topic. The last aspect a consumer wants to show up while he searches for statistics about pc snap shots is to get statistics on operating structures. A digital library must preserve topics separate; in any other case it'd be definitely vain. A digital library must even have a consumer interface that is easy to apply.

Virtual Libraries – standards:

- The purpose of a digital library is to provide coherent company and convenient get admission to normally big amounts of virtual facts. The subsequent ideas provide operating definitions of a digital library from both a conceptual and a realistic stand factor.

- A virtual library is an integrated set of services for shooting, cataloging, storing looking protective and retrieving records.

- Virtual Library services bring order wherein rata floods and facts mismanagement have induced an awful lot crucial facts to be incoherent, unavailable, or lost.

- Digital Library architecture emphasizes agency, acquisition, and renovation. And usage of facts.

- Digital Library structures are realizations of structure in a selected hardware, Networking and software program state of affairs.

Virtual Library design and Implementation:

One of the first design troubles in the advent of a digital library is to put together a listing of high-degree necessities. This listing includes what statistics the library will comprise, how that facts can be generated, what audience the statistics is intended for, and how the statistics can be accessed. For our mission, we wanted to create a repository for laptop technological know-how laboratories. Teachers during the sector ought to be able to visit an internet web page and put up facts about the labs they use in their classrooms. From this description we see that: the intended target market is pc science educators round the sector; and the facts must be on hand via the web. All of these issued must be considered inside the development of a digital library. A clear plan ought to be advanced before one begins the exact design and improvement of the library.

- Hardware – pc or UNIX

- Garage – Database or file structure

- Accessibility – Java or fashionable HTML / hi – Res or Lo – decision.

- Search engines like Google and yahoo – Write your very own or commercial.

- Protection – record privileges

Virtual Libraries foremost additives:

1. Distributed digital statistics collection.

2. Virtual Library collections include constant, permanent files.

3. Geographically distributed users.

4. Digital Libraries are useful to individuals running on my own.

5. Records includes books and journals, that stored is virtual shape in a laptop disk.

6. Audio records are digitized, compressed using typically standard preferred compression algorithms and saved.

7. Massive and various collections.

a. Numerous types of tables, which includes physical assets of date materials are stored and digitally the usage of curve setting applications. Unfold sheet packages and so on.

8. The user can get entry to the library from everywhere the use of terminal or a laptop linked to the network to which the information servers of the library are linked.

9. Digital Libraries are based totally on virtual technology.

Want & motive of digital Libraries:

• digital Libraries can offer programmatic solutions to the issues faced by using conventional libraries in handling their prints based totally series like shrinking budgets, time barrier and so on.

• digital Libraries facilitate progressed facts retrieval and superior file shipping.

• The motive of digital Libraries are making excellent efforts to ensure that first-class collections and offerings. The digital library development is costly due to the value worried in establishment of virtual information and the current net based totally facts basis. The digital processing also desires funding of manpower, technology and systems, hardware, software program and networking add to this problem in an inconceivable manner.

Benefits of virtual Libraries:

1. Capability to look

2. Assist huge range of cloth

3. Protection

4. It saves the value and manpower of publishing and brining out new versions.

5.   E-book and E-Journals provide diverse searches key global concern.

6.   Instantaneous records transfer facility to any vicinity on net (http:\www.Dlib.Org)

7.   Get admission to modern-day facts.

8.   Eight. Archival of sources users can use them.

9. Facility for the down loading and printing.

10. Offer commonplace accessibility.

Risks of virtual Libraries:

The digital Library has diverse negative aspects:

1.   Virus Invasion and parallel satellite networking stress.

2.   Lack of know-how as constrained providers are there for digital libraries in the global.

3.   Highbrow belongings proper.

4.   Technological adjustments are also coming very, rapid in which everyone is anticipated to turn out to be familiar to cope up with the modifications.

5.   Insufficient finance and infrastructure.

Capabilities of digital Library:

The features of digital library are too;

1.   Community accessibility.

2.   Help multimedia content material.

3.   Assist advanced search and retrieval.

4.   Helps enhancing, publishing, annotation and integration of data.

5.   Offer user-pleasant interface.

6.   Provide get admission to to a very massive records collection.

Technologies for virtual Libraries and important regions:

digital Libraries is considered through many to be a hard research area as it requires improvement and integration of numerous incredibly state-of-the-art hardware and software technology, and pooling collectively of multi disciplinary expertise.

Main regions:

- Information Compression

- Display Technology

- Multimedia item storage, retrieval and transmission

- Multimedia item illustration

- Ex: HTML : Hypertext markup language

- SGML : fashionable Generalized Markup Language

- Consumer Interfaces

Virtual resources of facts: The digital aid of data is two kinds.

1). On line - net, E-Journals, E-Books, LAN – WAN

2). Offline - CD-ROMS, Audio visual Aids.

Digital Library problems and demanding situations:

Issues:

Paintings in the place of virtual Libraries have thrown up numerous problems and challenges.

- Copy right in surroundings is a chief issue.

- Hardware & software program.

- Value of ordinary fresh

- Inter operating

- Pricing inside the digital environment

- Renovation of electronic records

Challenges:

- Intellectual assets rights.

- Protection

- Lack of knowledge

- Techno phobia

Conclusion:

Digital Libraries are expected to bring about full-size enhancements over modern-day modes of records publishing and get admission to strategies. Digital libraries offer statistics provider to aid instructional. Leisure, personal and economic endeavors of the individuals, even as

providing offerings in virtual libraries, access to virtual information takes a variety of bureaucracy for dissemination in anticipation or customers needs and interest. Educations, Researchers and students internationally can be some of the first to benefit virtual libraries particularly the ones in developing nations. The virtual libraries should be strengthened and the digitalized information additionally to be made available freely to the needy human beings making Dr. Ranganathan's first regulation Books are to be used" a reality.

References:

1. Adupa Sunil and Vijay Kumar A. (2007) – Role of Digital Libraries in Distance Education – An overview Pearl: J. Library & Information Science Vol. (1): 61-62.

2. Sanjeevi, K. Dr. S. Ravi, Dr. N. Rajendran, Dr. M. Rathinasabapathi, (2007). Libraries Digitization an Analysis for its problems & prospects pearl: Journal of Library & Information Science Vol. (1), No.3 P.24-31.

3. Anjaiah, M. (2005), Role of Digital Libraries in 21st Century FALA, Conference Seminar Paper, The changing context of Higher Education No.44, P.287 to 291.

4. Ratan Jyothi M., K. Indrasena Reddy, (2005), Role of Digital Libraries in Changing Environment No.45, P.293-298.

5. Gladney Henry M., (1995), Digital Library: Gross Structure and Requirements: Seminar paper, Digital Libraries: A new Concept. P.93-98.

6. Dr. Rajasekar, (1994) T.B. Network Based Services, Digital Libraries University of Hyd. P. 34 – 44.