

Use of Web-Based Information Resources and Services in Libraries

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1. Abstract: Library and information services in the 21st century have changed greatly due to recent developments in technology such as the Web. In the age of internet revolution, internet is playing an important role where every person is getting necessary information at their fingertips. Using these web technologies in libraries, web-based library and information services are provided to their users on the web round the clock. Traditional library services are now shifting to web-based library services. Nowadays, libraries are user centric with technology driven environment and providing value added services to them. E-learning has become a new paradigm that creates a new learning environment. The main objective of this paper is to present the web-based library services available to the users of the College.

Keywords: User Education, Web-based resources, Web Forms, Institutional repositories, Database.

2. Introduction:

The World Wide Web was started by Tim Berners-Lee on August 6, 1991 in the Internet world. Today it completes 41 years. The World Wide Web is a technology that connects all the computers in the world. World Wide Web or WWW is a large collection of linked pages. User can be accessed easily with the help of a browser while using the internet. Information based and available on the web is placed on web pages by individuals or organizations for specific purposes. Students or users take in the information available in web pages on the net. The web is actually that unit of information that is available online for viewing at a time on the World Wide Web. In this way the information material under the website is stored and kept secure in the web pages. So there is convenience in learning.

The student can retrieve the available information or text material as per his wish. Under this the work is done from the World Wide Web. It provides the source as a server. It has the ability to provide educational materials on the net to users located all over the world. Efforts are

made by individuals, organizations, schools, organizations and institutions to establish websites for educational or commercial purposes.

Web based library and bibliographic services eg. Online library catalogs, subject gateways, electronic journals, online bibliographies and index databases help in finding sources. A library service refers to the facilities provided by the library to disseminate information on the use and requirement of books and to meet the needs of the users. Famous Existing Library Services Cataloging, Classification, Circulation Services, Reservation, Renewal, New Arrivals, Current Awareness Services, Selective Dissemination of Information, Indexing and Abstracting, Reference Services, Interlibrary Loan, Databases are Access to CD-ROM databases, other library catalogs, access to online databases, internally published newsletters, reports and periodicals, bibliographic services, etc. All of these services have to some extent changed their ways with the web environment.

Need of web- based information resources and services in libraries:

1. Ensuring that users' needs and information are properly accessible to them to match
2. Deliver information to the user in a timely and appropriate manner
3. Ensuring that the information provided is accurate and correct and high quality
4. increase users' awareness of new services and information sources
5. Providing personalized guidance and support to users.

Web-based library services by libraries should be

1. flexible and scalable to meet the needs of a large
2. Diverse user population; Robust with an intuitive user interface
3. Web-based services are Internet-oriented and reliable
4. interactive and user-oriented
5. Up-to-date and dynamic
6. participate and demand
7. and satisfying experienced use

- **Bulletin Board for Libraries:**A bulletin board is a public discussion area where people can post messages without having to send the message to someone's e-mail address that can be viewed by anyone accessing the area. A bulletin board on CompuServe is called a forum. The Bulletin Board for Libraries is a common gateway to all major academic subject resources for UK higher education, including other university library catalogs and electronic journals. It uses the Dewey Decimal Classification System as the primary organizational structure for cataloging Internet resources
- **Push based services:**Push technology or server push is a style of Internet-based communication where a request for a given transaction is initiated by a publisher or central server. This contrasts with a pull/gate, where a request to transmit information is initiated by a receiver or client.
- **CAS:**Publishers regularly announce journal updates on their websites; Send pages of journal content to libraries and let end users know what new articles they have recently published. They also provide details of new articles appearing in their publications.
- **E-SDI:** e-SDI services on the web, the library must create a link from the existing library environment (i.e. the e-SDI page is accessed by clicking on the SDI sib link from the information services link on the library's main page) and can provide different subsequent service functions found by hyper-navigating to the active link.
- **Hosting on web:**A web hosting service is a type of internet hosting service that hosts websites for clients, i.e. it provides them with the facilities they need to create and maintain the site and make it accessible on the World Wide Web.
- **E-mail delivery:**Email delivery is when the email is successfully delivered to the receiving server. Email deliverability means that the email successfully arrives in the person's inbox. It's possible to have good email delivery but poor deliverability, because the email landed in a person's spam folder instead of their inbox.
- **FAQ:**FAQ stands for Frequently Asked Questions. A collection of frequently asked questions and their answers is referred to as an FAQ list or FAQ article. FAQ is a collection of information that is the result of some frequently asked questions hence the name FAQ.
- **ILL and document delivery services:**ILL refers to the borrowing of books, conference proceedings or other returnable materials on behalf of eligible users; DDS refers to obtaining a

copy of journal articles, book chapters, conference papers, or other materials on behalf of eligible users.

- **Internet Subject Gateways:**Internet Subject Gateway Services that provide alternatives to Internet search engines and web directories intended to help users find high-quality Internet Subject Gateway resources. The definition of subject gateways suggests that in some sense they are the Internet equivalent of an academic or special library. Subject Gateways are Internet-based services designed to help users find high-quality information available on the Internet.

- **Newsletter services:** It is a very good service to the users, available internet services, sites, new additions, publications, conferences, workshops, training and fellowship programs are useful like Internet base information sources catalog is a useful asset for all R&D libraries if it is provided by e-mail at regular intervals. Or they can host it on their website.

- **WebOPAC:**Web-OPAC is an online catalog of library or library resources on the web. Its main tool is searching for materials from the library's collection. Integrated into the library management system, the web OPAC allows users to access and search the library. Catalog from a remote on the web. Web OPACs have also been developed as independent online catalogs accessible from servers all over the world.

- **Patent Information Services:**Patent Information Services provides training to in-house staff, allowing your firm to conduct more independent, reliable and accurate patent searches. These in-house training programs in the field of patent information research can be customized to meet your specific needs.

- **Reference Services:**Reference service in a library is often defined as direct personal assistance given to readers in finding information. It is a branch of library service, which includes personal assistance given to them in searching for information on various subjects area regardless of library size and collection.

- **Whiteboard:**In a whiteboard environment, multiple users may be connected to discuss a topic and differs from a newsgroup in that the computer screen serves as a whiteboard.

- **Virtual Library Tour:**It is a virtual guide to the library's physical web-based service facilities, introducing you to the library and helping you find your way around more easily. It includes library maps, layout and floor plans, photographic views of library departments and collections, services and infrastructure.

- **Electronic Journals:** Electronic journals form a large part of a library's collection of web-based resources, and access to them is a major web-based service. Today many journals are available in electronic format, some are full text and some contain only bibliographic information.

- **Institutional Repositories:** An institutional repository is an online repository for collecting, preserving, and disseminating digital copies of the intellectual product of an organization, especially a research organization.

3. Review of Literature:

1. **According to Iqbal Singh Brar(2016)** of study is to find out the use of web based information resources and services and to find out what kinds of problems faced by them in this era of Information and Communication Technology

2. **Zarei and Abazari (2011)** studied the web-based services offered by Asian national libraries and found that the National Library of Singapore ranked first in providing services to users through web sites and was the only national library in Asia that provided more than half (52.29%) of its services through the web site. Many of its services, such as services to publishers and bibliographic services, are offered entirely through its web site. The rest of the national libraries provided less than 25% online services. The data revealed that these national libraries provide information in-house to their users rather than providing services to end-users through the web. The study revealed that libraries were providing various types of web-based services such as services to publishers, services to libraries and librarians, services to end users, bibliographic services, accessibility of services, and web-based learning and research services.

4. **Objectives:** The main objectives of the study are as follows:

- To find out which web-based services are available.
- To find out how to use web-based services in the library.
- To see the benefits of web-based services

5. **Methodology:** In order to study this, I had to rely on some information on the internet and also tried to read information from some books and take some references from them.

Advantages of web- based information resources and services in libraries:

- ✓ To save precious time of scientists.
- ✓ Less number of library staff to carry out library functions and services.
- ✓ Less dependence on library staff to obtain required information.
- ✓ Location of laboratories/departments at different locations in the campus.
- ✓ Rapid and extensive information requirements for R&D activities.
- ✓ Information for decision making in MIS.
- ✓ The prices of books and periodicals have gone up manifold.
- ✓ Availability of information in different places and in different formats.
- ✓ Library budget cuts.

Issues of web- based information resources and services in libraries:The Web was designed as an information space, intended to be useful not only for human-to-human communication, but also for machines to participate and assist. One of the major obstacles to this is that most of the information on the web is designed for human consumption, and although it is a database with well-defined meanings for its columns, the structure of the data is not clearly defined. A robot browsing the web.

Challenges of web- based information resources and services in libraries:

- Participating libraries must have the infrastructure to provide services to their users.
- A librarian should go a step further than just providing internet access. He or she should take responsibility for evaluating the web resource to provide effective.
- A librarian must have a deep knowledge of web resources and search engines, which will give the reference librarian real power to answer questions.
- The librarian should create a web directory of inter resources so that the user can use or refer to it whenever needed to provide the service.
- Library users should be properly trained and explained about the internet and search option.
- One of the most widely used formal tools for organizing information retrieval knowledge is indexing. Indexing systems originate from an early collection of systems and their function is essentially to indicate the content and related characteristics of a document

with a dual purpose: to identify documents on a particular subject and to identify documents on a related subject.

5. Conclusion: Web-based services are the heart of every library. Web based library services are a new popular service. Libraries today are taking full advantage of internet and web facilities on a large scale. Users are very happy to get internet service. This new method of web-based service is more effective in special libraries than in academic libraries. We see these included in the new National Education Policy. Library will become popular when it enables to provide web based services and if library and information center are professional about their services then it can become a money making organization in near future.

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