

# An Analysis of Library Information Resources & Services in IT Environment

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## ABSTRACT

In the last three decades, as we know that the information revolution and information explosion have taken place. With the quick speed of IT, time has shortened and world has become smaller. The technology verify as boon for us. Around the world the publishers have taken the advantages of these technologies and brought in an excess of electronic resources and services in large quantity. With the changing of time, the main need of Information Technology based electronic resources and services in libraries are to fulfil the requirements of the information of users. This paper highlights these resources and services of libraries with new technology and discusses the available technological opportunities. These can be used by the library information resources and services in addressing such challenges.

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## 1. Introduction

In higher education institute libraries play important and effective role. Without appropriate and latest information any education institute cannot get its goals and objective. Due to the demand of the information resources increasing, so the information scenario is changing very speedily in order to see the value of electronic resources by the readers. Along with print materials the librarians pay for non-print media resources and services. Both the readers and institutional should keep in mind to take suitable purchase decisions by making low budget. E-resources are one of the rising competitive sources in the field of library and information technology. E-resources are used as an alternate of print media that are generally consisting of e-journal, e-books, CD-ROM, e-newspaper, thesis and dissertation, articles and multimedia databases. In these new electronic resources example of online databases are Scopus, Ebsco, and Emerald published new information.

Information resources and services put great impact on libraries and also affected with source of IT. Digital information resources are used in libraries because of the advancement of technology. We can use digital information resources and services because traditional resources are costly and difficult to arrange them. On the other hand, digital library information resources are very easy to access and less expensive. Now the libraries with their traditional print format resources are being added electronic information resources. It is helpful for those readers who have limited time to spend in the libraries. Now OPACs, CD-ROM and Internet are using in place of print media. These resources change the traditional book arrangement and make available electronic environment. Electronic resources are read on computer and interactive document. For the activities of libraries, e-resources are very essential. The requirement of personal, mobile device and mainframe computer are for information access. The time based information that is published and commercially available in the market as an electronic product transfers to collection of images and data, journals graphical and numerical text bases, electronic books and journals are all involves in computer access and defined as resource. (Patil, 2014)

## 2. Information Resources In IT Environment

Electronic product in the form of collection of data on any internet and digital media for information dissemination, non-commercially and commercially available are e-journals, multimedia products, e-books, text referring to full database, collection of images and time based information. Living, Dynamic and Static are the three kinds of digital library resources that are used at present. Living document includes information on the web with their out manifestation, dynamic document include CD-ROM with in fixed information and also able to change outward form. On the other hand static document never change their form as it is a traditional online data and it include fixed information which is most essential. On the collection of academic libraries, the collections of e-resources are large impact. In searching planning, these are more helpful in acquiring of information and storage maintenance. Many developments have taken place in electronic publishing since 1985. The concept of e-resources initiated from the idea of e-publishing. Electronic contents can be defined as the document in an electronic form, to be accessed by computer and storage electronically, network and electronic system. It controls much information and solves storage problem. These days print sources are being digitized due to aspect of e-resources.

**E-Resources:** We can define electronic resources as those materials that involve computer access through a mobile device, tablet, mainframe and personal computer. They may be accessed through internet. Thus the traditional library system are transforming into essential learning systems and e-systems. According to requirement, the electronic document can be access stored and delivered. So the information services are combined into regional, local, national and international networks. Now a day's academic libraries are becoming hybrid libraries.

**Technical Development in Library Resources:** There is the brilliant change in information resources and their dissemination process with the help of electronic resources. It is a combination of text, video clips, sound, and animation software. All these are electronic machine readable

information. Within the use of networking the electronic resources are developing fast and provide information. With their advantages, e-resources become more acceptable these days. With the development of information technology electronic resources are available in different types such as: Electronic Books (E-Books), Electronic Journals (E-Journals), E-Newspaper articles, E-Financial data, E-Research material and data, E-Manuals, E-Audio/Visual material, Electronic Databases, E-Market research information, E-Statistical information, E-Exhibitions, E-Share wares, E-White papers, E-Maps, E-Magazines, E-Preprints, E-Manuscripts, E-Thesis, E-Computer programs, E-Directories, E-Encyclopaedias, E-Biography, E-Technical Reports, E-Digital image, Dictionaries, E-Glossary, E-Numerical data, E-Digitized sound, E-Conference proceeding, E-Graphics, E-Data archives, OPAC (Online Public Access Catalogue), E-Animation, E-Newswire, E-Text, E-Mail, Internet resources, E-Meta resources, E-Archival finding aid, E-Library catalogue, E-Research reports, E-Multimedia components, E-Abstracts, E-Bibliographical tools, E-Index, etc.

### 2.1 Advantages of electronic resource

Digital resources hold several advantages to the user's point of view such as place as well as time convenience, ability of searching directly on text, timeliness, and ability to link reading material, to disseminate and share information. Advantages of e-resources are:-

- Time saving substantial and easy to use anytime, anywhere
- In use and storing physical space saving and simple access to recent/current information.
- For hearing impaired audible e-resources, background music/ animation more attractive
- Forwarding, reading, downloading and saving at a click and unlimited simultaneous use
- Easily copied and disseminated, supports searching capacity
- Allow interface and interactive between publisher, author and users
- Reuse, easy to manage manpower saving, speedy and multi-access
- Research and development activities efficiently and effectively improved by e-resources
- Availability all over the world, and easy in storage and portability
- In comparison of traditional resources it offer additional information
- Available on mobile devices, online, tablet, and enhanced search capability
- In present smart web era, timeliness in easy words electronic information resources
- Classroom as well home or at a place or in journey, be accessible anywhere required

### 3 Information Services In IT Environment

In the profession of library and information services, technological improvement as well as change always played an important role. The broader use of technology and digital material in over life as well as at our work put a huge impact on our profession as archivists or librarians. The sudden increase growth of non-print material such as CDs, DVDs, digital audio,

Blu-ray discs, e-books, image and video files are example of all these changes. Electronic resources may become multi-media which are frequently distributed on the internet including sounds, rather than an electronic version of a print resources, and images moving as well as still. Growth and development of print technology created space problems and proper management attached with long time maintenance. To encourage research and development, perpetuation of information in electronic as well as print form and through World Wide Web, its availability in global platform has become vital experience in all information centers and libraries.

**Technical Development in Library Services:** The development of technology has opened new scopes for information creation, storage, duplication, access, presentation and distribution. The rapidity is amazing at which information sources are being converted and produced into electronic form. In any higher education academic library, all stages of information services like collection, storage, processing, searching and supplying to readers have to take place with qualitative information in the form wherever and whenever they require it. The terms of various creations of information sources and services have become a multifarious task. For librarians, information technology developments generate new opportunities. Through different network such as the internet, they try to provide the ever growing information need of their users. The increasing availability of information storage, processing and information technology, the creation of electronic information products and services facilitated stimulate new cooperative schemes and sharing resources in library. With the broad development of science and technology the amount of information has increased. At present, it is impossible to obtain all necessary information sources.

### 3.1 Library Services In Internet Era

In the information era, information become service and an essential resources which provide information services to all type of organizations is of supreme importance. Effective information services present increasing role that information plays in daily performance of organizations Lewis, 1995. With the changing scenario, information technology play most significant role on services based internet era. The library of each sector will have to make certain the services while taking advantage of changed components of IT. For providing enhanced services with low budgets, librarians are faced with the challenge. There are many kinds of services such as:

**Acquisition Services:** These days' library records accession interred in the computer through library software. Then book detail can be search like author's and title name, publisher's name, publication year along with price will mentioned after creating books received report. Automatically accession number is generated.

**Circulation Services:** In reference the scenario has changed the delivery techniques and used process of searching with the development of information technology. The largely affected electronic sources are information services and reference online database of library catalogue.

**Inter-Library Lending by Electronic Media:** As it may seen, in academic libraries automation has been developed within the last few years and become part of over everyday life. At present over most common approach of transmitting is

internet. For distant searching through internet library catalogue is available. We still receive and appeal for databases through email.

**On-Line Search Service:** Through online terminal, online search is done. Before logging-on the search statement or the search approach should be structured. The search comprises explore of key words collectively (Boolean). Different types of information like commercial, full text and bibliographical data provided by a huge number of online databases. To select the requisite database the user will be requested and the system will be displayed on the screen of the terminal, when communication is completed by logging-on. The contact between the machine and the user goes on as search proceeds and the user give the command to which the computer responds.

**Web Pages:** Web page is presented as the most important plan of electronic information available on the internet. To explain the maintenance, dissemination and storage of its information documents, web page uses its own terminology. A compilation of web pages linked together form a website. Web site of a library consist of basic information about access to online catalogues, full-text resources, online reference & help desk, databases, bibliographic, library guide and training manuals, resources and link to other sites.

**Electronic Data Communication Services:** In the electronic age, many data communication services are used in libraries like E-mail, Video Tex, Teletext and Bulletin Boards. Electronic data communication services play the role of essential tools to mediate between among computer users.

**CD-ROM Technology:** CD-ROM is a powerful medium for assured users which contain the textual equivalent of one thousand books but does not make it general replacement books.

**Select a Database of CD-ROM:** With the development of technology, many academic libraries subscribe on line databases and CD-ROM services these may include encyclopaedias, articles, magazine, directories and other reference resources. In all type of libraries modernization and networking are becoming very significant as they facilitate the user access to the resources. By participating in network the academic libraries also assistance them.

**Reference Sources on CD-ROMS:** The internet revolution provides alternatives to remaining the sources and charged the physical medium of traditional sources. Same sources may be accessible on CD-ROM and online in some cases. Some type of dictionaries like Oxford and Cambridge learner's dictionary are also accessible on CD-ROM. The pronunciations of English and British text are also available on it. You can solve and check the answer on small exercise which is available on it. Science Encyclopaedia, Britannica and National Geographic also available on CD form. It is mainly a superior microform catalogue. CD-ROM can provide current acquisition, cataloguing through hard disk storage and it also provides recent states information through link to an online circulation system.

**E-Books and E-Journals Services:** These days, a number of one-books are available such as the soft book, the RCA e-books and the Class book. Today e-books are the actuality and it will certainly become a part of over future. It can grip near about ten thousand pages of text. For multiple classes, the user could carry multiple books without the

physical damage. We can electronically search with e-books. We can also cross reference outside and within of the text. When courses require the combination and analysis of material from multiple text we can save the time of readers. An electronic journal disseminated to most of its primary subscriber in electronic form. To accept the final form of manuscript in electronic form, most of the e-journal is agreeable now. Some of the e-journal services are prepared to submit in electronic form.

**Full Text:** With the advancement information are available in off-line and on-line full text document delivery, it is much progressive in the commercial and academic sectors. The full text files can often be very large with complete details of document. The electronic full text form of books and journals can be available before the printed type of document.

**Newspaper in Online Medium:** With improvement of computers, telephone technology and communication channels opened up the boundary of online services. Millions of readers are online in education and business purpose. With this development all leading newspapers are accessible online. Online electronic discussion news groups take part through send e-mail messages, ask questions and exchange messages. Through news groups electronic boards post messages, articles and comments for newsgroup subscriber to read and reply. Available online newsgroups like Indian Express, Asian Age, Times of India and Economic Times etc.

**Current Awareness Service (CAS):** CAS services keep the user alongside each other of the advances and development which take place in the areas of research of specialization. In any subject area, it does not mean to create complete review of all activities but this method is limited to a few. It can be given in different forms like by indexing and abstracting, current content list and title. In a library through various online databases, CD-ROM etc, by making use of computer the residue can be provided Current Awareness Service by sending e-mail.

**Selective Dissemination of Information (SDI):** In Selective Dissemination of Services the users receive appropriate information to his research. Its main function is to disseminate information. A user profile is creating in computerized SDI service. In the same way, in the library when documents are received, document is also constructed. By the computer these profiles are matched, sent to the readers and received the feedback from the user. If the reader not satisfied, the file are checked and adjusted on the basis of user's evaluation.

**Indexing and Abstracting Service:** It is not possible for professional education readers to read all the article of his attention published every year. In keeping they well informed indexing and abstracting services plays a very significant role. In today's electronic environment these services are extremely fast. Delnet Dialog, INSDOC, etc, are providing indexing and abstracting services.

**Translation Service:** To translate full text into other language like English to Japanese, French to Hindi, software are obtainable. These are very helpful for rapid translation services.

**Books Monographs Services on Internet:** On the internet the concept of books or monograph is defined, to large extent information on World Wide Web consists of defined text, with editions and all that is published.

#### 4. Suggestion

-To access their e-collection, web and open web resources and services, academic institutions should take plan to develop smart library application and updating tools for user friendly smart devices. To use available e-resources, e-services and open web resources, smart library applications encourage users of respective libraries than common resources.

- Towards e-resources and services sufficient finance and other facilities especially primary to higher academic institutions.
- To develop National E-Corner for available open web resources, e-resources and services, proposals should be taken in different institutions libraries of the country to make best use of them.
- To encourage access to e-services and e-resources, the facility of data web/services should be provided at nominal charges.

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#### 5. Conclusion

With the development of IT based resources and services, the current scenario of world's libraries is changing very high-speed. In information technology, the modernizations have influenced libraries to adapt the changes and provide better with collection development, services provision, human resource training and planning, the libraries resources and services also changed significantly. In the last years, the major development in IT based information resources and services, and the introduction of electronic information resources and services has been broadening. Today IT offers opportunities to specialized readers like students, researcher, faculty and administrators. It also provides materials for research projects and institutional courses materials. Changed concept of library information resources and services are playing a vital role in digital era. To the information enclosed in the publication, electronic information resources provide easy and fast access with powerful search, simple and retrieval abilities to the researchers. With the changing of time, now these resources and services are now depends upon Information Technology.