OUR HERITAGE JOURNAL

certify to all that

Suvarna Inamdar

has been awarded Certificate of Publication for research paper titled

Modern Libraries: Electronic and Digital

Published in Vol-68-No-9-2020 of OUR HERITAGE JOURNAL with ISSN:: 0474-9030

UGC Care Approved International Indexed and Referred Journal

Impact Factor 6.6

SNSharma

_____

Editor, OUR HERITAGE JOURNAL

Modern Libraries: Electronic and Digital

Suvarna Inamdar,

Librarian,Kamla Nehru Mahavidyalay,

Sakkardara ,

Nagpur.

Abstract :

Electronic library contains by born digital material. Digital library contains converted digital material. E libraries are hybrid libraries, modern libraries are named differently such as virtual library, cybrary. Collection, storage, conversion, preservation strategies of electronic and digital library, difference between e-library and digital library, importance and components ofboth the libraries,Steps in digitalization.Consortia,MOOCs, SWAYAM ,CBT packages.

Introduction :

In the new era of digitalization traditional libraries are transforming in to Digital libraries and e-libraries, ebrary or cybrary. These days libraries are not only the collection or storage of books but to also provide access to resources individually, selective dissemination of information as well as current awareness systems with the help of information and communication technology. In this era of information explosion everyone is in dilemma for selection of accurate information. As per prevalent traditions of library visits, issue-return of books physically has now been replaced by providing handy material to users on their own device .Parameters of libraries as well as circulation and dissemination of information medias have been changed. Information searching devices also developed new platform for users. With all these advancement policies of collection of information, preservation, collection development is suddenly changed. To survive ourselves it become indispensable to transform our traditional libraries into e-library, Digital library.

Modern libraries are of two types namely

1   E-library
2   Digital Library

1 E-library :

Electronic library users can read the document they want from their residence or college or office via internet. E-libraries are bound to physical places sometimes, sometimes not.

Definition of E-library:

"A library which provides primary and secondary information electronically through this purpose." **By National DIET library Japan**

E-library contains of by-born digital material, for e.g. Audio video CDs/DVDs, graphic texts, multimedia contents ,CBT packages (i.e. Computer based training) ,CDs of thesis, magnetic tapes and computer readable formats.

To develop collection of e-library it become essential purchase of CDs, DVDs, e-journals, e-books, buying access to digital material such as database, LISA, consortia. Databases such as AGRIS, AGRICOLA,PUBMED,MEDLINE, COMPENDEX, INSPEC and many of in every subject provides 24/7 access, 365 days of year to users.e-library also provides integrated search to dictionary, encyclopedia, almanacs. Many e-libraries are there like World Bank e-library, PROQUEST, Pearson e-library. PROQUEST e-library consists of 2100 to 4800 e-books .Access is on yearly basis, every year 3to400 books increases. Provides IP based access. It contains Commerce, Arts, Science, Computer, Management e-books. It is NAAV approved database that also allows making bookshelf.

E-libraries can be made up with the help of computers. Enormous open source literature is available online in digital form. Consortium is also a useful modern technological material. Consortia are an association of two more publishers that provides quality collection of electronic study material. There are different Library Consortia e.g. INDEST,UGC-INFONET,FORSA,INFLIBNET SHODHGANGA,J-GATE,OCLC is an International consortia. INDEST consortium is open model consortia. It is funded by central government. It is useful for engineering College Libraries. There is merging of INDEST –AICTE, UGC INFONET and NLISt namely E-SHODHSINDHU. This is very much useful quality program by INFLIBNET. IIM, FORSA is share budget consortia. FORSA contains material of specific subject.

MOOCS, SWAYAM are also valuable components of electronic library. Massive online open courses are available study materials course wise. Many times they are free of cost.
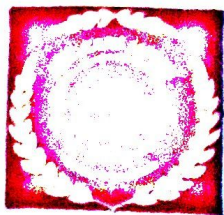
Examinations, assignments,and certificates everything MOOC provides online. UDEMY,UDASITY,CORSERA,e-DX,NOVOED,FUTURELEARN,MITopen courseware,CANVAS,ONVERSITY are the examples of MOOCS available. Study webs of active learning for young aspiring minds SWAYAM is government initiated program designed to achieve cardinal principles of educational policy namely access, equality and quality. SWAYAM consists of nine national coordinators for best quality contents. SWAYAM provides online refresher courses under CAS for UGC faculty members. For those no need of leave, just enroll, register and login SWAYAM and find study material of course, videos, assignments, online examination and certificate free of cost at your own desk. There are enormous courses designed academic, hobby related also. University post-graduation programs are going to compulsory one certificate course from SWAYAM.
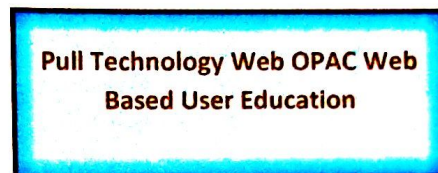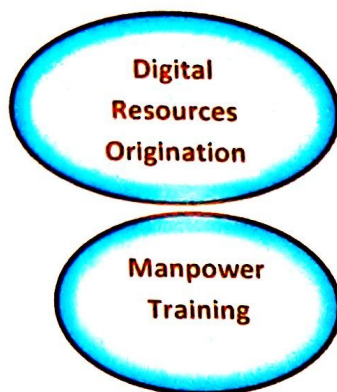
Remote access to all the e-resources available is possible these days. EzPROXY is a web proxy server to give access from outside the library's computer network to restricted access websites that authenticate users by IP address. With all these advanced technologies e-libraries are prospered. Advantages of e-libraries are requirement of less place, easy preservation, remote access, enormous material. DOAJ, DOAR are the best online examples for open source e-journal, e-books.

Components of E-library :
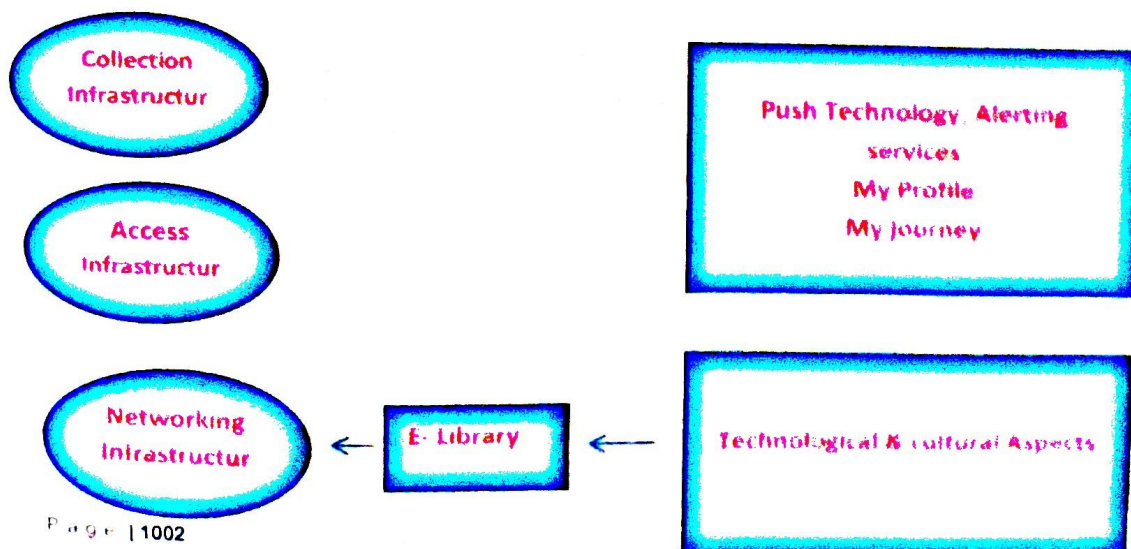
Digital Resources Origination

Manpower Training

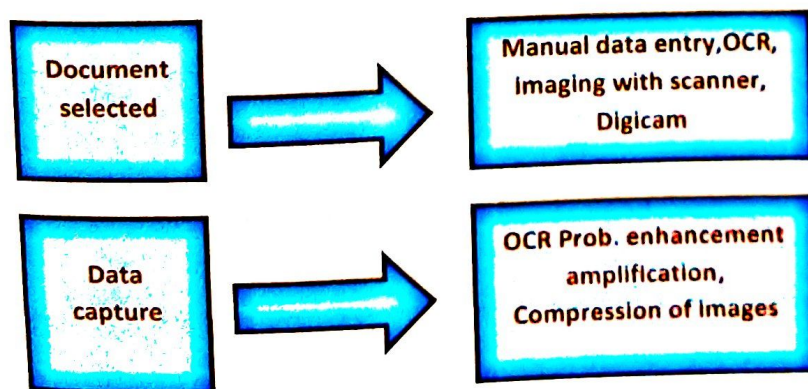Pull Technology Web OPAC Web Based User Education

Digital Library:

"Digital library is where the past meets present to create the future "Dr. A.P.J. Kalam.

Digitalization is a process of translating a piece of information such as books, sound recording, picture or video in to bits. Digital library does not contain by-born digital material but the hard copy material or books converted in digital. There are steps involved in digitalization.
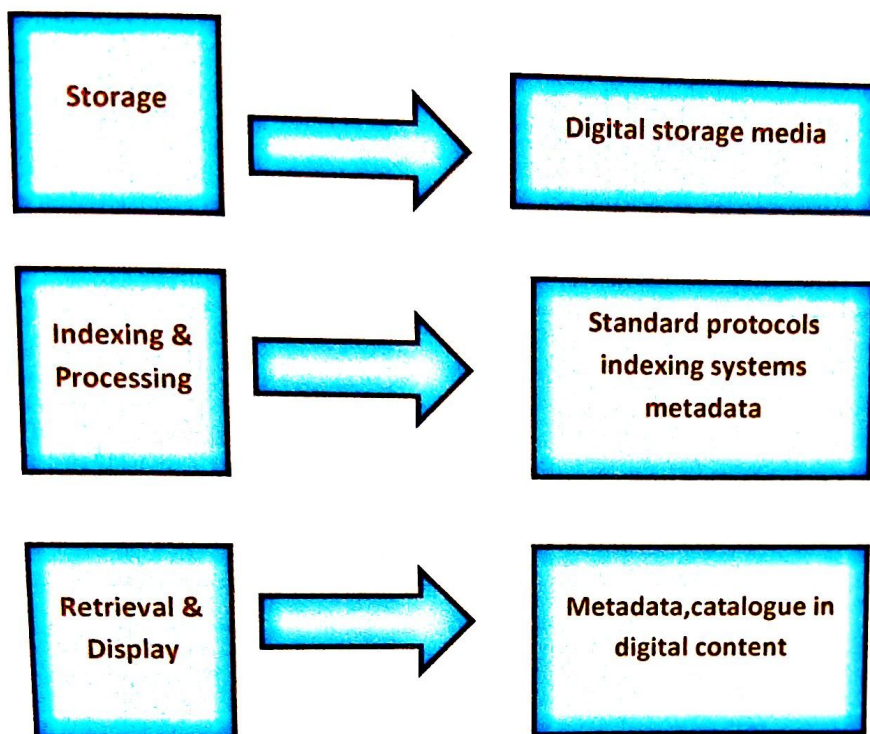
1. Selection
2. Conversion
3. Preservation
4. Retrieval of digitized information.

The following figure shows steps involved in conversion of hard copy material into digital.

Document selected → Manual data entry,OCR, Imaging with scanner, Digicam

Data capture → OCR Prob. enhancement amplification, Compression of Images

| Storage	→	Digital storage media
Indexing & Processing	→	Standard protocols indexing systems metadata
Retrieval & Display	→	Metadata,catalogue in digital content

Data capturing devices for digitalization process

- Manual data entry
- Scanners
- Digital cameras

Scanners are bar code scanners, flat bed, planetary, shit fed, drum, V shape scanner. Digital cameras are still camera, handy cam, and video cam.

Preservation strategies of digitalization are migration, emulation, refreshing metadata attachments, trustworthy digital object,Normalization, Bistreame copying, technology preservation, digital archeology, Analogue and encapsulation. Subject gateways essential system software for digital library are VISTA ,Windows XP ,LINUX,UNIX .Application software required is MS office ,browser –Webserver, Software – APACHE,PLUS.IIS after that database software – My SQL,ORACLE,MS ACCESS, Antivirus – NORTON , AVG and LAN internet is essential.Digital software required are DSPACE, e-print, Greenstone.

Digital library provides disseminates digital material, archives, preserve digital material, rare books. Important digital libraries are
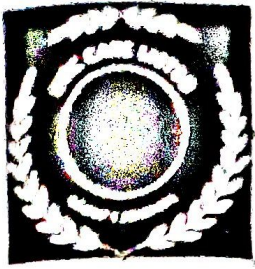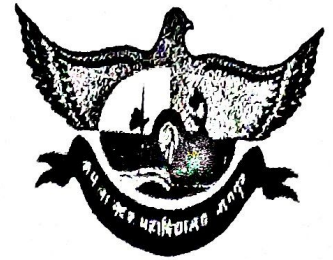
- New Zealand digital library
- Network Computer science
- technological reference library
- ArXIV.org
- Science Direct

Thus we cleared difference between electronic library and digital library .electronic libraries are to be said as hybrid libraries, because these contain hard copy of books as well as electronic material. All these modern libraries are also called as virtual libraries, cybrary, ebrary. All these advancements are boon for the society.

References :

1. Atta-Ur-Rahman, 2017. Disruptive innovations. The News, October 4, 2017. Accessible at: https://www.thenews.com.pk/print/234425-Disruptive-innovations.

2. Christensen, Clayton M. The Innovator's Dilemma: When New Technologies Cause Great Firms to Fail. Boston, MA, Harvard Business School Press, 1997.

3. Gauder, Brad (ed). Perceptions of Libraries, 2010: Context and Community. Dublin, USA, OCLC, 2010.

4. Lewis, David W. (2007). A strategy for academic libraries in the first quarter of the 21st century. Accessible at: https://scholarworks.iupui.edu/bitstream/handle/1805/953/DWLewis_Strategy.pdf.