

Research Article: **Advance Digital library Information system for Kuvempu University at Karnataka : An analytical study.** *DATED 26-04-2017*

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ABSTRACT

The project goals are to enhance electronic access and improve data management, information System, information retrieval, library sciences, and document management, web image Processing, artificial intelligence and human computer interaction. The project implications and Significance are profound in potentially changing the library service. Advance Digital library information system provide suitable assistance to fulfil their users basic objective of providing Relevant information. The digital library information system access, storage and dissemination of Information is in the digitalized form. The project briefly describe the planning, resources, Maintenance, responsibility role of librarian, stage etc., al information are provide digitalized Form. The overall objective is to digitalize the Library information system.

Keywords: Digital Library , Advance Digital Library , Digital Library on cloud, Advance Digital literacy

Introduction:

Why Digitization?

There are many purposes and ways to create the digitized images, depending upon the uses, needs and users demand. Digitization assures high quality of information of wide varieties of resources to wide varieties of users, possible any time, any where simultaneously. However, digitization is used and advocated for:-

- 1) Preservation of quality.
- 2) Multiple referencing. Access of information to several users at a time.
- 3) Accessible to users at any distance and at any time.
- 4) Security Measures.
- 5) Restoration of rare and out of print material i.e. preserve and conserve material.
- 6) Increasing their customer base by making older and rare or heavily used documents available to a much wider audience.
- 7) To provide quality services in a difficult but hopeful environment.
- 8) It enables change in the individual & group behavior. Hence, it is a powerful instrument of change.
- 9) It evolves into an active medium of communication which effect social & work practices.

Key Benefits of Digital Library

Easy & Efficient Management

Proper & Updated Information to the Patrons

Keep a check on the obsolete and less useful resource

Motivate Patrons

Increase usage of the available resource

Source the right resource

Right Information at the Right Place and at the Right Time

Changing Roles of Librarian

PROJECT AIMS AND OBJECTIVES

The project Advance Digital Library Information System for Kuvempu Univeristy At Karnataka aims and objectives that will be achieved after completion of this project Creation of Cloud Computing and Fog Computing. ,Implementation of RFID

- ✓ Online book issue
- ✓ Request column for librarian for providing new books
- ✓ A separate column for digital library
- ✓ Student login page where student can find books issued by him/her and date of return.
- ✓ A search column to search availability of books
- ✓ A teacher login page where teacher can add any events being organized in the college and important suggestions regarding books.
- ✓ Online notice board about the workshop.

Digital library Software Overview :

The main component in the whole digitization process is the software used to store and retrieve the digitized document. With advent of open source era we have got three options in this space:-

Greenstone is

- **Widely accessible :** Collections are accessed through a standard web browser.
- **Multi-platform:** Collections can be served on Windows and UNIX, with an external Web server or (for Windows) a built-in one.
- **Metadata-driven:** Browsing (and, if desired, searching) indexes are built from metadata. Metadata may be associated with each document or with individual sections within documents.
- **Extensible:** Plugins can be written to accommodate new document types. Classifiers can be written to create new kinds of browsing indexes based on metadata.
- **Multi-language:** Unicode is used throughout and is converted on-the-fly to an encoding supported by the user's Web browser. Separate indexes can be built for different languages: a plug-in allows automatic language identification for multilingual collections.
- **International:** The interface is available in multiple languages: new ones are easy to add.
- **Large-scale:** Collections containing millions of documents, and up to several gigabytes, have been built. Full-text searching is fast. Compression is used to reduce the size of the indexes and text

- **Z39.50 compatible:** The Z39.50 protocol is supported for accessing external servers and (under development) for presenting Greenstone collections to external clients.

Greenstone provides

- **Flexible searching:** Users can search the documents' full text, choosing between indexes built from different parts. Queries can be ranked or Boolean; terms can be stemmed or unstemmed, case-folded or not.
- **Flexible browsing:** Users can browse lists of authors, lists of titles, lists of dates, hierarchical classification structures, and so on. Different collections offer different browsing facilities, determined at build time.
- **Zero maintenance:** All structures are built directly from the documents themselves. New documents in the same format can be merged into the collection automatically. No links need be inserted by hand, but existing hypertext links in the original documents, leading both within and outside the collection, are preserved.
- **Phrases and key phrases:** Standard classifiers create phrase and key phrase indexes of text — or indeed any metadata.
- **Sustained operation:** New collections can be installed without bringing the system down. Even active users rarely notice when a collection is updated.

DSpace support the types of content

DSpace accepts all manner of digital formats. Some examples of items that DSpace can accommodate;

- Documents, such as articles, preprints, working papers, technical reports, conference papers
- Books
- Theses
- Data sets
- Computer programs

- Visualizations, simulations, and other models
- Multimedia publications
- Administrative records
- Published book
- Overlay journals
- Bibliographic datasets
- Images
- Audio files
- Video files
- Reformatted digital library collections
- Learning objects

DSpace support the types of file formats

- Text ,Images,Audio,Video etc

Institutional Repository

DSpace is a digital library system to capture, store, index, preserve, and redistribute the intellectual output of a university's research faculty in digital formats.

- (i) DSpace is organized to accommodate the multidisciplinary and organizational needs of a large institution.
- (ii) DSpace provides access to the digital work of the whole institution through one interface.
- (iii) DSpace is organized into *Communities* and *Collections*, each of which retains its identity within the repository.

LIBRARIAN is a next generation LMS designed for small to large libraries.

LIBRARIAN uses established thoughtfully created design and development principles. It showcases library's individual strengths, while freeing staff from routine functions. This .net - based solution uses Web and MS-Windows client software to offer an array of services and features.

Powerful Multilingual Support based UNICODE :

LIBRARIAN allows users to store and retrieve record in any language available globally using advanced UNICODE technology. The support phonetic keyboard enables users to input data

Powerful Resource Management :

Over & above managing library resources Books, Journals, Articles, CDs, DVDs, Cassettes, Films etc., LIBRARIAN - an advance Library Automation & Management Software from CR can also manage resources like Documents, Technical Drawings, Maps, Annual Reports, Standards, Permits, Licenses, Agreements, Contracts, Tenders, Physical Assets etc. One also create different list of resources by using Category Master. Creation of Digital Archive is a

Chosen by all sizes and types of libraries :

Over 750+ Libraries, spreaded across various domains, have chosen LIBRARIAN®.

Libraries choose LIBRARIAN because it features :-

- Simple and Elegant User Interface
- All International Standards Complied
- (MARC21, MARCXML, Z39.50, AACR2, FRBR, NCIP 2.0 for RFID)
- Minimal system administration
- Automatic Email Management
- Streamlined technical services
- Article Indexing
- In-built Barcode & Smart ID-Cards with Barcode and Photo for the Patrons
- RFID Ready
- 150+ Reports, Real Time Inv

Library Automation Solution



<http://www.librarysoftware.in/>

<http://www.cybrarian.in>

<http://www.mobopac.com/>

CYBRARIAN- Asia's first revolutionary Library Management Software System based on Cloud model was launched by CR2 Technologies Ltd., Ahmedabad during LIBRARIAN Users Meet held in the city on . A group of librarians across the country, who are using LIBRARIAN a Library Management Software, assembles once in a year to share & discuss their problems & experiences with the software. The experience of each librarian is unique and they come out with new ideas to improve & to add new features to the software to make it more functional, user friendly & effective.

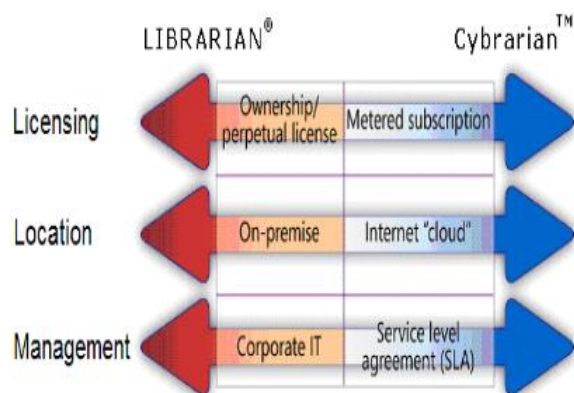
CYBRARIAN-allows the librarians to access & run the software with the help of an ordinary low cost PC having a web browser and they can carry out on line all the transactions like Acquisition, Cataloguing, Circulation, Periodicals Management (PMS), Article Indexing, Reports Management etc. as if the entire application is running on their desk. One can access the application anytime (24x7x365) from anywhere, & from any machine where the webOPAC facility is already built in. At a very low hosting fee, CYBRARIAN provides users facilities like Software Usage, Secured Data Storage, Virus Protection, Backups, Patch Management, Product Updates, Technical Support, Maintenance etc. CYBRARIANTM follows all the international standards like MARC21, Z39.50, AACR2, MARCXML, ISO 2079 etc. and is having UNICODE (Multilingual) facility. The most attractive feature of CYBRARIAN is that librarians

or Resource Centre Manager can customize the application as per his requirements without the help or need from the software vendor. Moreover, the reports can also be self-customized.

Cybrarian^{IM}

Functional Components:

- Online Public Access Catalog
- Cataloging
- Authority Management
- Serials Management
- Circulation
- Scheduling
- Reporting : Standard & Custom
- Z39.50
- Reservations
- Acquisitions

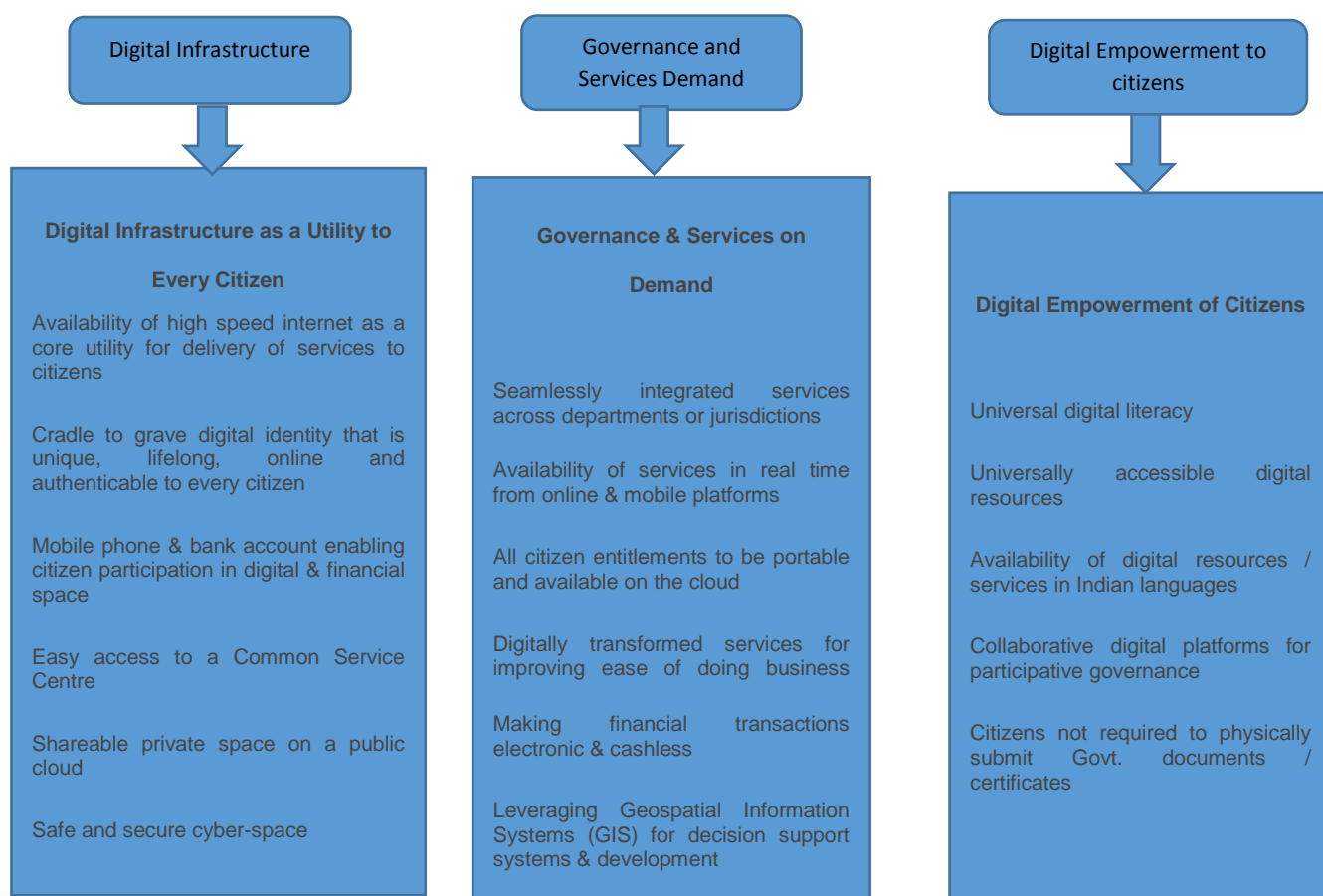


Vision of Digital India:-

DIGITAL LITERACY IS THE LONG TERM SOLUTION FOR DIGITAL INDIA MISSION

The vision of Digital India programme is to transform India into a digitally empowered society and knowledge economy.

Digital India programme is centered on three key vision or Pillars:-



Modern Laws of Digital Library

- ❖ Digital Resources are for use
- ❖ Every user it's Digital Resources
- ❖ Every Digital Resources its user
- ❖ Instant time savings of user
- ❖ Digital Library and Digital literary are vision of Digital India

LIST OF FREE JOURNALS - DATABASES - DIGITAL LIBRARIES

Free Online Resources are across various disciplines are listed below:

1. Internet Public Library - <http://www.ipl.org>
2. Virtual Learning Resource Center - <http://www.virtualvc.com>
3. Complete Planet - <http://http://aip.completeplanet.com>
4. Medline Plus - <http://www.nlm.nih.gov/medlineplus/>
5. ERIC (Education Resources Information Center) - <http://www.eric.ed.gov>
6. PubMed Central - <http://www.ncbi.nlm.nih.gov/pmc/>
7. Intute - <http://www.intute.ac.uk>
8. Library of Congress : American Memory Collection - <http://memory.loc.gov/ammem/browse/index.html>
9. Library of Congress : Digital Collections - <http://www.loc.gov/library/libarch-digital.html>
10. New York Public Library Digital Gallery - <http://digitalgallery.nypl.org>
11. Directory of Open Access Journals - <http://www.doaj.org>
12. Google Scholar - <http://scholar.google.com>
13. Google Books - <http://books.google.com>
14. Highwire (Stanford Univ) - <http://highwire.stanford.edu/lists/freeart.dtl>
15. Unesco Database - <http://www.unesco.org/new/en/unesco/resources/online-materials/publications/unesco-database>
16. Scholarly Journal List - <http://info.lib.uh.edu/wj/webjour.html>
17. Project Muse : Article Search - <http://muse.jhu.edu/>
18. JournalSeek - <http://www.journalseek.net>
19. JURN (academic journal search engine) - <http://www.jurn.org>
20. Journal TOCs (Tables of Contents) - <http://www.journaltoocs.hw.ac.uk>
21. Lexis Nexis Free (LexisOne) - <http://law.lexisnexis.com/webcenters/lexisone>
22. US News Archives on the Web - <http://www.ibiblio.org/slanews/internet/archives.html>
23. Social Sciences Research Network - <http://www.ssrn.com>
24. MagPortal - <http://www.magportal.com>
25. New Jersey Digital Highway - <http://njdigitalhighway.org>

Conclusion:-

An attempt is made in the present study to conclude something about four selected library management software, which a library can select as per to the suitability of their needs and economic conditions for automating their different activities and Digital Library services. As far as the survey of the Digital libraries is concerned, Many Libraries are using CYBRARIAN cloud package as its complete details were not available on its site and in other literature. But evaluation and ranking of the software needs more observation, hence this study can be elaborated further by taking survey of Existing library software being used in other libraries in a particular region or the state level tie-up with International and National University.

However, the present study surely will provide a basis to the librarians to go for opting a good library management software. Equally this study can also be used as a base to explore further possibilities of evaluation of Digital library management software system in Kuvempu University At Karnataka

Cost Estimation for Digitalization:-

The total cost of the project is estimated various from Rs. 40-50 lacs depending upon the equipment's selected by the experts. We are hopeful to get finance for the implementation of this project from various agencies like Ministry of HRD, Government of India, UGC, RRLF, and Contribution from Library Fund and Alumni students

In future proposed 'Digitalized Library Information Centre' will also take digitization work from Libraries, Institutions, etc.. Hence, there will be maximum utilization of equipment & other resources as well as expertise.