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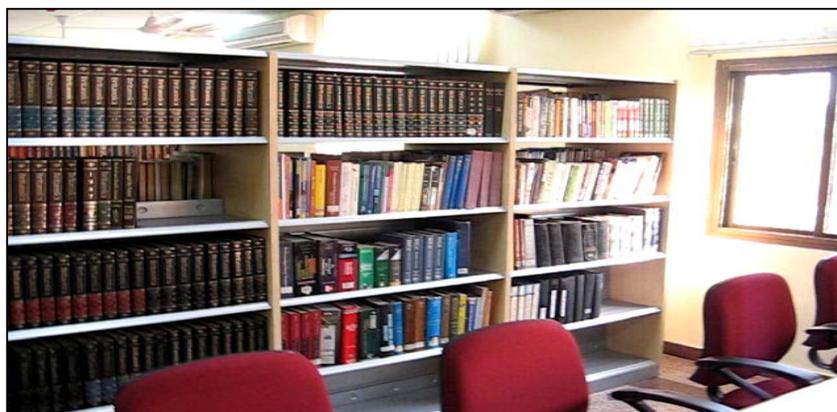
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Volume 4, Issue 4

October – December 2007

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OAI - COMPLIANT INSTITUTIONAL ARCHIVES

Introduction:

As we know more and more people are now getting engaged in research work. These researchers want to know the work that was performed on the same subject before. Also a researcher want to disseminate his or her work to a larger mass, the one possible solution is the open archive. The OAI – based E-print archiving can not only increase the visibility and accessibility of one's research but the usage and impact of one's work. The purpose of self archiving is to make the full text of the peer- reviewed research output of scholars/scientists and their institution visible, accessible, harvestable, searchable and useable by any potential user with access to internet. To self archive is to deposit a digital document in a publicly accessible website, preferably an OAI Compliant E-Print archive. All OAI Compliant E-Print in OAI-Compliant archives are interoperable. This means distributed documents can be treated as if they were all in one place and in one format. Thus the documents can be searched across the various archives by just using the metadata tags.

Self-Archiving:

Self-Archiving is nothing but depositing a digital copy of document in an easily accessible website preferably an OAI Compliant E Print archive. In self archiving the depositor copy/paste in the metadata (title, author, subject etc) and then attaches the full text document with it. Just some typing is needed to do the work. In some institutes services are

provided where the person are provided to do the keystrokes.

E-Prints:

E-prints are the electronic copies of papers. The E-prints allows the researcher to make their preferred pre-prints, refereed and post-refereed (published refereed) freely available to the world scholarly and scientific community.

Open Archive Initiative (OAI):

Open Archive Initiative is the method of building an interoperable system in which various archives (Institutional repositories) containing digital content can share their data. In OAI based services there is a common code for metadata tags. OAI allows the harvesting of these metadata and then the whole document can then be searched and retrieved as if they were in one place no matter in whatever format and wherever the document is located. OAI is therefore, closely related to the open access publishing movement.

OAI PMH (Open Archive Initiatives Protocol for Metadata Harvesting):

OAI-PMH is the protocol developed by the open archives initiatives. It is used to harvest the metadata from the records of archive so that services from different archive through metadata tags are provided.

The OAI-PMH uses XML over HTTP. The current version is 2.0 updated in 2002. The OAI-PMH version 1.0 was introduced in January 2001 and another in February in Berlin, Germany.

Subsequent modification to XML standard result in version 1.1. The current version 2.0 was released in June 2002. The OAI is based on client-server architecture in which “harvester” request information on updated record from repositories. The data can be provided in XML metadata in Dublin core format, and May also provided in other XML formats.

OAI-Compliance:

OAI Compliance is nothing but which allows its metadata be easily harvested and thus making the document easily accessible. OAI Compliant archive or repository allows their metadata easily harvested by the metadata harvester thus making all the archives and the records contained in them interoperable, which means that OAI Compliant document appears as if they are located in the same place and written in same format. By creating OAI Compliant E- print archive in different location they can function as if they are located at same place.

OAI E-Print Archive:

E- Prints are the electronic copies of the research paper. An e-print archive thus is a collection of digital documents. OAI – Compliant E-print archives share the same metadata, making their contents interoperable with one another. Their metadata can be harvested into global “virtual” archive such as OAIster that can be searched by any user. Free e- print software has been designed so that institution or even individual can create their own OAI – Compliant e-print archives.

Advantages of E-Print Archive:

- 1) **Increase in visibility:** - With the wider reach of the e-print archive and free access more and more researchers can consult it and thus increases its wider access and visibility.
- 2) **Increase in citation:** - The freely access e-print archives makes paper more visible. Papers are freely available for others to consult and cite. There is evidence which shows that works which are freely available are in fact cited more.
- 3) **Institutional Output:** - With building an institutional repository, an institute can shows its research output. Mainly result of a public funded work can easily be accessed by the public.

Conclusion:

By building an OAI-Compliant E-print archive for an institute or research institute, one can easily made his/her research work available to a large mass. And hence can increase the visibility and accessibility of his/her research work. The open access made in this manner will certainly benefit the whole world of researchers.

References:

Ghosh, S.B. and Das, Anup Kumar, Open Access and Institutional Repositories – a developing country Perspective: A case study of India, IFLA Journal, Vol.33, No.3, 2007, pp.229-249.

LIBRARY AUTOMATION SOFTWARES

In the present era, information is becoming a key resource. Hence quick access to reliable and up-to-date information is becoming necessary. So to keep pace with increasing information demand of society Library and Information Centres needs to modernize their services. They need to automate their housekeeping operations to speed up their services because Library Automation saves effort, time and resources involved in the manual operation of libraries. Hence by automation, library activities such as acquisition, circulation, serial control, Information retrieval, cataloguing and indexing can be mechanized by using library soft wares.

A software is generally a package. It is invisible and unverifiable till it is acquired. Now a days many library management software packages both foreign and Indian are available in the market. Details of some of the library management software's are given below:

Autolib

Autolib developed by M/s Autolib Software Systems, is a Detailed and Symbol Library database manager with search capabilities that will help us to manage standard details as well as drawing symbols. AutoLib has been designed by working professionals to provide an intuitive interface that allows the user to begin

realizing the benefits of the utility almost immediately.

CDS/ISIS

CDS/ISIS is a Computerized Documentation Service and Integrated Set of Information System. It is developed by UNESCO since 1985 to satisfy the need expressed by many institutions, especially in developing countries, to be able to streamline their information processing activities by using modern (and relatively inexpensive) technologies.

It is one of the most versatile microcomputer based information storage and retrieval system and is mainly supporting bibliographic information some of its important features are as follows:

1. Take care of textual as well as alphanumeric data, required to describe any bibliographic information/document.
2. Flexibility in almost all its operations.
3. Powerful search capabilities via an index.
4. Can accommodate an unlimited number of databases, each of which may consist of completely different data elements.
5. Provides a high-level PASCAL programming interface.

6. Capability to handle repeatable fields.
7. Has a versatile report generation facility.
8. Powerful security control assigning a password.

SANJAY

This software is based on CDS/ISIS (Ver. 2.3). It has been developed by DESIDOC under a NISSAT project to meet the requirements of library management activities. A team of software professionals from DESIDOC developed 35 PASCAL programs and 25 additional menus with CDS/ISIS to form SANJAY package. To make the software user friendly, a number of predefined display formats, print worksheets, and sort worksheets have been provided.

SANJAY is a low-priced library management software that runs on the personal computer and can support textual information in Indian scripts. It has successfully implemented in the automation of Technology Bhawan Library, New Delhi.

DELPLUS

Software designed and developed by DELNET exclusively to work under all kinds of libraries. It follows internationally recommended standards and formats such as MARC 21 and best for small and medium size libraries which have collections upto one lakh holdings. Its Salient features are:

- 1) The desirable formats worksheet, i.e. CCF or MARC worksheets can be chosen for data storage purpose.

2) The MARC worksheet consists of two levels, viz. fixed field entry and variable field entry. To save the user's time and also the system space, the required field tags along with the indicators can be chosen.

3) The online assistance is available for data inputting through the help menus.

4) Data validation check is possible in order to avoid the data errors.

5) Provision for duplicate checking is available while inputting or import record into a database.

6) The authority database is maintained.

7) Data Import/Export into and from MARC as well as CCF is made possible.

8) The option for printing the desired records is also available.

E-Granthalaya

E-Granthalaya, the library package developed by National Informatics Centre, New Delhi, is aimed to suit the requirements of different classes of library.

E-Library (Formerly F.I.L.M.S.)

E-Library (formerly F.I.L.M.S) is a comprehensive library management system developed by Functional Solutions, scales easily from small educational libraries to very large public libraries. The system features and functionality are totally customizable in a live, real-time

environment. The product it is designed to fit any library.

Libman

Libman software for managing library developed by RS Enterprises. This software is a comprehensive and based on the single screen concept which provides ease to the user. By only one scanning, issue-return, renew can be done. Even the stock taking, locating the shelved books easier for the librarian. Correct shelving barcode is the effective solution for Library maintenance.

LibSys

LibSys developed and marked by LibSys Corporation, New Delhi is an integrated & multi-user library information management system. It runs on various platforms such as UNIX, NOVELLAN, Windows NT etc. LibSys is completely a menu driven system in all of its functions. Menus are used to prompt the operator through the option available in each stage in the process. This design of course gives the novice user confidence & reduces the amount of memorizing the command or checking of manuals to a minimum.

Its continuous growth for the last 12 years, has made LibSys a defacto standard for libraries in India. Its acceptance in global market further strengthens its popularity across the country as the most field proven library system in a wide spectrum of libraries with unmatched depth in functionality and features. LibSys handles Indian languages/scripts using ISM Publisher and GIST of C-

DAC. There is an additional 'Unicode' support in LibSys that facilitates handling of both International and Indian languages/scripts.

LSEase

LSEase is an offshoot of LibSys, the most popular and widely used Library software in the country. LSEase has a mixed blend of functionalities and technology that abundantly meet the automation requirements on any growing library which may not need some special functionality required in large universities, public libraries and special libraries. LSEase covers all the operations of libraries of different sizes including Web-enabled search facility. It continues to be outstanding in this market segment because of carrying over international standards such as options for MARC implementation, Client-Server architecture, facility to run on various operating systems, support on multi-media files such as images, videos, music, etc. from its parent system-Libsys.

LSmart

LSmart is a suite of applications harnessing RFID technology for use in libraries. It is the result of integrating efforts of LibSys software with various RFID products of France based TAGSYS (former division of Gem Plus, world's number one smart card solution provider). LSmart, having Security System through EAS gates as its core component, can be implemented in phased manner enhancing operational efficiency at every stage.

NexLib - Library Management System

NexLib is designed with a consistent, intuitive interface familiar to anyone who has used Microsoft Office. One can explore the entire system with just a few mouse clicks, yet behind the simple interface lies a powerful database engine capable of maintaining millions of records.

NexLib is designed to meet the needs of all information seekers. Academic researchers can search the entire library collections like, books, magazines, research reports, Company annual reports, CD materials etc. For the librarian, NexLib provides simple interfaces to catalog new books manage users, create reports, and control budgets & acquisitions.

SLIM++

SLIM++ is integrated, multi-user, multi-tasking library information software for the Windows environment. It is developed by Algorithms. SLIM++ helps to catalogue books, films, sound recordings, drawings, clippings, articles, reports, letters, pamphlets, serials publications... all those things that contain information so vital to any organization. SLIM++ cataloguing adheres to popular international standards. This means one can exchange data with the world. Retrieval of the data is simple, fast and efficient. Even a catchy phrase in the description of the catalogued item can be used for searching.

Softlink Alice

Softlink Alice is developed by Softlink Ashia pvt.ltd. It is a fully integrated library management solution, with modular components. It can be configured to suit libraries ranging from small primary schools up to National Libraries. The multilingual nature of the software allows new languages to be supported with a minimum of effort. At present Alice has been translated for English, French, Spanish, Chinese (simplified) Chinese (traditional), Japanese, Thai, Vietnamese, Malaysian and Hebrew. Arabic and Urdu will soon be available. Softlink Alice is designed to operate on industry standard hardware using Microsoft Windows.

SOUL

For the automation of in-house functions of participating university libraries, INFLIBNET Centre has developed a user friendly state of the art GUI based software named ' SOUL' Software for University Libraries. This is based on Client/Server Architecture. It uses an robust RDBMS as back end tool. This works on Windows and Windows NT environment with a number of new features.

VTLS

Visionary Technology in Library Solutions meets and exceeds the needs and expectations of libraries worldwide. It is developed by VTLS Inc. VTLS helps libraries, museums, and archivists organize their content ergonomically, so that visitors can more easily sort through it to see what they like. Its dedicated staff of over 120 talented professionals includes librarians with years of

hands-on experience, and expert software engineers. Based in Blacksburg, Virginia, VTLS also has offices in Brazil, Canada, France, India, Malaysia, Spain and Switzerland.

MINISIS

MINISIS developed by MINISIS Systems group is a bi-lingual (English and French) relational integrated library system offering acquisitions, cataloging, circulation, serials, and WEB OPAC modules. It also offers the ability to manage and retrieves data in the language of the user, i.e., Arabic and English. MINISIS Management for Libraries (M2L) is designed for installation and use "right out of the box," with little or no customization necessary, although the company provides customization consulting services. MINISIS does appear very flexible. A library can design worksheets, query forms, and reports for each module's functions that define local needs. MINISIS modules include acquisitions, cataloging, circulation, serials, and Web OPAC

Web Clarity Software

WebClarity Software Inc. is a market leader in information search and retrieval tools and services for librarians, catalogers, researchers, and students. WebClarity offers a suite of products utilizing the powerful Z39.50 standard, including BookWhere, a market leading bibliographic search client for Windowstm, and Resource Gateway, a customizable web based portal for publishing multiple information resources. WebClarity also e-publishes The Resource Registry, the definitive on-line directory of Z39.50 databases and LibJobs, a popular

online job board for the library industry.

Therefore, for doing automation, first one, that is expected, is software. Thought there are many library need-based software packages today in the market, It is quite difficult for a librarian to select a suitable software package for a particular type of library. Hence before selecting an appropriate package for library librarians should consider some of the parameters in mind these are as follows:

Essential Parameters for Integrated Library Management Software:

1. Software should be able to handle both the bibliographic, full text and library management functions including images and multi-media interface.
2. It should support single user and multi user environments and should be an integrated package covering all the library functions and services.
3. Library software should also support modules like those of acquisition, circulation, serial control, etc., independently.
4. Must have capability of using authority files for different subject fields.
5. Must have option for CCF or MARC implementation.
6. Possibility of importing data from different formats e.g. ISO 2709, text, etc.

7. Data must be exportable in ISO 2709, preferably UNIMARC/CCF format.
8. It should be able to handle multiple Indian languages.
9. Must have web/internet interface.
10. Must have capacity to implement Z39.50 both as client and server.
11. It should have provision for add-on modules such as bar coding, fine system, etc.
12. It should have strong after-sales technical backup support.
13. Vendor must provide customization of software at the Library.
14. Must provide training to the library staff free of charge.

These are the parameters which guides, to select the appropriate software package for libraries and to automate the library housekeeping operations successfully and effectively.

NEWS

1. Institute of Health Management Research in association with SALIS -Delhi NCR is organizing a National Workshop on "**Building Digital Libraries Using GSDL and DSpace**" on 14th and 15th of March, 2008 at Institute of health Management Research, Sanganer Airport, Jaipur.
2. DELNET announces an Interactive Workshop on "**Koha An Open-Source Integrated Library System (ILS) :An ideal opportunity for Indian Libraries**" on March 10-13, 2008 at DELNET, New Delhi.
3. Special Library Association will hold its Annual Conference in **Seattle, WA, USA, 15 - 18 June 2008** at the Washington State Convention & Trade Center. The conference will create an environment for networking, communication, learning and other developmental opportunities for information professionals. Available sessions will highlight strategies used in organizations that reflect the Association's vision and missions.
4. International Federation of Library Association and Institution will organize its 74th Annual Conference In the year 2008.

World Library and Information Congress: 74th IFLA General Conference and Council Québec, Canada, 10-15 August 2008.
