Research Article

Library Automation of Prof. Bhubaneswar Behera Central Library Using e-Granthalaya: A Proposal

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Abstract

The concept of automation in libraries has changed the scenario of library management. It is a recent trend in the development and growth of library. Using of e-Granthlaya, Library Automation of has changed the library operation and its functionality in to a fast to faster mode. Clients need not to visit shelf to shelf to find out a document. They just get their documents sitting in front of a desktop. e-Granthalaya is a Library Management Software facilitates to automate not only the in-house activities of the library but also the user services .Automation has eliminated the man power. It is providing automatic service. Now every Government institution has setup library internally as a service and resource centre which meets the information need of the staff for efficiently performing their duties. It converted to a Knowledge Base Centre by implementing ICT tools and technologies. NIC has taken initiative to computerize Indian Libraries by implementing e-Granthalaya software Here this article will discuss about the concept of automation, its requirement and various components helps to automate library. A brief dissection has undergone about software package which are available for automation purposes.

Keywords

e-Granthalaya,
Library Automation,
OSLMS,
Bhubaneswar Behera
Central Library

Introduction

Library automation, which started in India in late 1970s in few special libraries, has now reached most of the academic libraries. Computerization was started in the libraries to increase the efficiency and effectiveness of the library operations and services. They have also provided information management for taking effective decisions. Today in our professional field the user's services within minimum time within maximum satisfaction has been accepted as goal of library services. We are living in the Cyber age where everything is being converted to e'or traditional system to automation in the field of Railway, marketing, banking now in this 21st Century, ICT is being used in all sphere of our life, libraries are not the exception of this change "Libraries are the social institutions that play vital role in the over-all development of a nation by providing information services to the citizen of a country. In the modern education system, libraries have become integral parts which support learning and research activities in the higher education level**.** In the present era, every Government Organization has setup library internally as a service and resource centre which meets the information need of the staff for efficiently performing their duties. There are over lakhs of libraries in the country that can be converted to a Knowledge Base Centre by implementing ICT tools and technologies.

NIC has taken initiative to computerize Indian Libraries by implementing e-Granthalaya software."

e-Granthalaya: history and evolution

e-Granthalaya was started as an in-house project at 'Karnataka State Centre of NIC, Bangalore' and first version of the software was designed for the Public Libraries in the State. Later, NIC HQs 'Library and Information Services Division' took over the designing of the software where library professionals were involved in the designing process and, thus, improved the software with enhanced user interface and simplify the work-flow of library functions so that it can suit to all kinds of libraries. Following table shows the release of various versions of the software:

Technology/Platform used	Version	Year	DBMS
Visual Basic 6/ASP/HTML	1.0	2003	MS SQL Server 7
Visual Basic 6/ASP/HTML	2.0	2005	MS SQL Server 2000
VB.NET/ASP.NET 2.0	3.0	2007	MS SQL Server 2005
ASP.NET 4.0/AJAX/JQUERY/JSON/SilverLight	4.0	2015	PostGreSQL-an Open Source DBMS

What is e-Granthalaya

e-Granthalaya is a Library Management Software facilitates to automate not only the in-house activities of the library but also the user services. The first version of the Software was developed by the Karnataka State center of NIC, Bangalore. Later, the development was taken over by the Library and Information Services Division at NICHQs, New Delhi. The following table shows the release of various versions of the software.
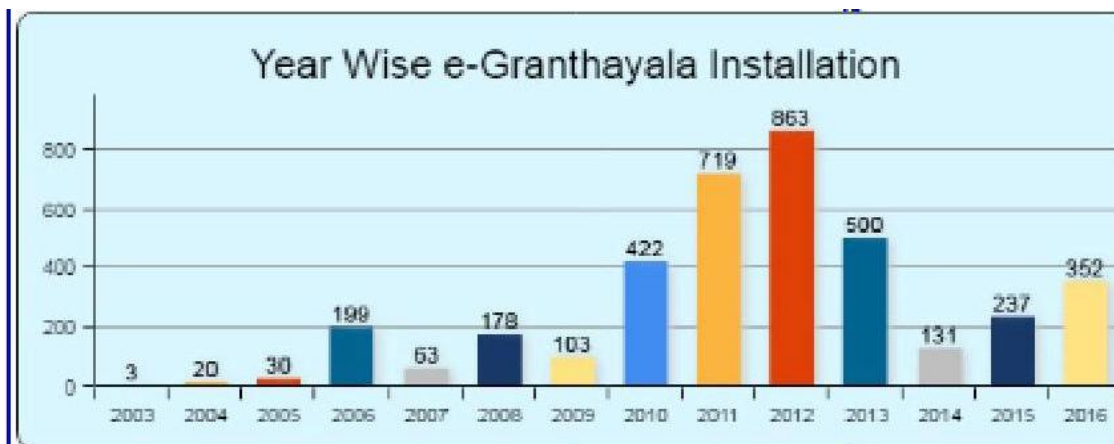
About e-Granthalaya

e-Granthalaya*: A Digital Agenda For Library Automation and Networking* - is an Integrated Library Management Software from National Informatics Centre,(NIC), Ministry of Electronics and Information Technology, Government of India. The software has been developed by a team of experts from software as well as Library and Information Science discipline. The software is useful for automation of in-house activities of libraries and to provide various online member services. The software provides built-in Web OPAC interface to publish the library catalog over Internet. The software is UNICODE Compliant thus, supports data entry in local languages.

- ➢ The current version of the software is 4.0 – a Cloud Ready Application.
- ➢ Provides a Web-based data entry solution with a Centralized Database for cluster of Libraries
- ➢ Hosting charges and services as per Government policy
- ➢ Uses Postgre SQL – An Open Source DBMS.
- ➢ Minimum data entry with integrated modules.
- ➢ User needs working Desktops with Net Connectivity Only to access the application online.

Year wise e-Granthalaya Installation

Why automation in BBC Libraries needed?

In modern day's central library of Sambalpur University are concerned with dissemination of information. They have to ensure that relevant and useful information is communication to the right information right time right users who need it. e-Granthalaya library automation software can help to all Govt. Organizations eligible for FREE Online Access of e-Granthalaya 4.0 on NIC Cloud in the process of efficiently and effectively. Following are the reason in favour of the e-Granthalaya library automation to de done.

1. To have bibliographical control of published literature
2. To provide information quickly to the researchers, who are engaged in R&D activities?
3. To avoid duplication in research work
4. To provide quick library services to the users by utilizing effectively the expertise of professional staff.
5. To share the available resources among the central library.
6. Information explosion has resulted in the production of a large amount of literatures in every field of knowledge .Accordingly the print documents are coming to the library in huge numbers which is not possible for   a library to manage the collection manually.
7. Record keeping activities of library can be done effectively in automated environment.
8. Issue, return and renewal of books can be performed quickly.
9. Online Public Access Catalogue (OPAC) is a powerful tool of library automation
10. Cost effectiveness

What to be automated

All housekeeping works and services of the library can be automated through library automation. Besides in some automation software packages there are provisions for article indexing, abstracting etc. Basically the followings works of library are automated.

a)   Acquisitions related operation such as preparation of list, ordering of books, receiving, accessioning, invoice processing, payment request etc.
b)   Cataloguing of documents such as update title, generation of library cards, generation of barcodes, authority files etc.
c)   Circulation works such as membership registration/cancellation/renewal, issue/return/renewal of documents, fine collection ,reminders etc
d)   Serial Control such as registration of serials, serial details, subscription details, payment details, renewal of serials sec.
e)   Catalogue cards can be held online that is through OPAC

Statement of the Problem

Open source Integrated Library Systems (ILS) are a new phenomenon in library automation industry. Most of the libraries in Odisha are not fully automated including some University libraries. In the present study the researcher has made an effort to implement e-Granthalaya for the Sambalpur University Library named as the Prof. Bhubaneswar Behera Central Library as a proposal. This effort may create awareness among the library professionals in Odisha and provide an idea on how to automate their libraries using e-Granthalaya.

Objectives

- To identify different housekeeping operations and collections of the Prof. B. Behera Central Library.
- To know the existing automated operations and the satisfaction level of library professionals.
- To install e-Granthalaya and examine different modules of e-Granthalaya software.
- To experience the implementation of e-Granthalaya for Prof. B. Behera Central Library

Scope and Limitation

The present study could not identify all the possible functions and requirements of Prof. B. Behera central Library for implementation of e-Granthalaya due to the time limitation.

In this study e-Granthalaya has been implemented as a pilot project, and not practically tested in the real time mode

Methodology

The researcher examined various operations and services of the Prof. B. Behera Central Library through personal visit. The data about the existing system was collected from the library professionals including the librarian through personal discussion. With a complete understanding of the existing system the researcher initiated the implementation of e-Granthalaya as a proposal for the Prof. B. Behera Central Library of Sambalpur University.

Automation of SU Library: Background

PHASE- I

- Period : 2002-2003
- Funding Source: University
- Project type: In house
- No. of computers Used: 8
- Software Used : CDS/ISIS
- No. Of book/ records entered : 1000

PHASE –II

- Period : 2004 – 2006
- Funding Source: UGC-INFLIBNET
- Project type : In house

- No. of computers Used : 8
- Software Used : SOUL 1.0

PHASE- III

- Period -2008
- Funding Source- University
- Project type – Out source
- No. of computers Used-8
- Software Used- E-GOVERNANCE

PHASE –IV

- Period – 2013- Present
- Funding Source- University
- Project type- In house
- No. of computers Used- 8
- Software Used-SOUL 2.0

Existing System

- Software : SOUL 2.0
- Staff :
- Technical/ Professional : 8
- Non Technical/ non Professional : 3
- Computers : 35
- Collection
  - Print-14705
  - E-Resources – 5000+
- Bibliographic Format used – AACR II
- Bibliographic Records Entered- 71829

Requirements for Library automation

The basic requirements for any library automation Programmes are software hardware, manpower and finance. These four basic components are discussed below.

1. Software
2. Hardware
3. Manpower

Implementation of e-Granthalaya Modules

1. Administration
2. Cataloguing
3. Circulation
4. Articles Indexing
5. Serials Management
6. Budget

7. Search
8. Web OPAC

Implementation Modes

➢ Stand-Alone Mode
➢ Client/Server Mode
➢ LAN Based Connectivity
➢ WAN Based Connectivity

Advantages of Library Automation under e-Granthalaya

There are multi-type merits e-Granthalaya library automation. The important of them are the following:

1. It increase productivity in terms of both work as well as in services
2. It extent of library services beyond the library peripherals
3. It allows participation into outside networking systems for the resources sharing of libraries
4. It creates cost effective economy in expenditure
5. It does proper and optimum utility of library materials
6. It effectively and efficiently library services
7. Users services within minimum time with maximum satisfaction of goal of library services

Conclusion

Now a day Library Automation has become the buzz word in library profession and has become a bare necessity for any libraries. It is really very good open software for library with its various features which can only leads to successful networking of Indian Libraries and it provide time to time database progress verification quick assistant by the NIC Nodal centers. Implementation of e-Granthalaya software is highly appreciable. An automated library can provide better library services to their users and can maintain the library more properly which a manual library cannot do. The record keeping activities and various report generation becomes very easy in an automated library system. But the success of any library automation programme depends upon its proper planning and execution. Hence library professionals need to take right initiatives in right direction. In our Prof. Bhubaneswar Behera Central Library they have to purpose e-Granthalaya software for library automation. The University Library through the implementation of e-Granthalaya, users' satisfaction

of quick information access and retrieval, online search for e-resources, OPAC search, client's registration, charging and discharging of resources among others were done with ease.

References

1. http://egranthalaya.nic.in
2. http://egranthalaya.nic.in/egranthalaya1_Brochure.pdf
3. K. Lakpathi(2014) Status of Library Automation in India, International journal of Library and information studies, vol-4(4),77-83.
4. Mulla, K. R. and Chandrashekara, M. (2010) Use of Integrated Library Software: A Survey of Engineering College Libraries in Karnataka, International Journal of Information Science and Management, Vol. 8, No. 2,99-111
5. Ram Kumar Matoria, R.K., Upadhyay,P.K. and Madaswamy Moni, M. (2007) "Automation and networking of public libraries in India using the *e-Granthalaya* software from the National Informatics Centre", Program, Vol. 41 Iss: 1, pp.47 – 58
6. Singh, A.(2003)Library Automation and Networking Software in India: an overview, Information Development, vol. 19, no. 1,51-55
7. Moorthy, A. Lakshmana(2004). Library Automation in lndia, Inamdar Bandhu Prakashan,Pune, pp.288-300