

Innovations in Library Automation and Information Science

Miss Priyanka S. Jaiswal,

Rsearch Schalors, Shri R.L.T College Of Science,
Akola

Mangesh Ubale.

Librarian, Shri R.L.T College Of Science, Akola

Abstracts:

The main purpose of this study is to assess self-estimated overall Information science and library automation. These same disruptive forces are acting on the academic library. Although many have called for a transformation in the library, there is a relatively minimal amount of discussion regarding what the transformation entails. Library automation, Information science is reference, articles, Journals, etc. It is also refers to use of computer to keep tracks of all the books that are added, issue, returned in library. Library automation is the part of management system in information technology era. This system ensure to handling proper book in library by the process of library automation.

Information Science is related to all discipline in knowledge branch. Such as social science, pure science. It is mostly related to library science. Library science is likely to information science. Information is useable. When is use or process, New information is generate by it. Information is generating in data, information, and knowledge. Information Science means processing of information. Library and Information science works like this. In this paper state that innovation of Library automation and information science in all discipline.

Introduction:

Library automation will play a vital role in library management system. Library automation stated in single term is the application of computers and services in the performance of different library operations and function. Technological advance and market demands required the vendors of library automation system to develop new generation of powerful integrated system. There is no need to an annual maintains to open source Library automation software. Libraries, which have completed their RECON projects can transfer their large bibliographic database to the new integrated system and Library automation all their operations. Library users education is need to use the library automation database effectively.

Library automation is a part of management system that is library automation facilities to better utilization library collection, library services, libraries technology work and all possible work in library housekeeping operation. Library automation is a technology that reducing manual execration, duplication of all possible works in library. Library automation concept use in library for right reader, right place, right time, give appropriate information. In this reason this concept came in library science sector. Library automation is a single term that collaborate all work by machine.

It is important to know Library automation concept that widely use in libraries and it is critical and expensive process so if we want to apply it and information Science is related to library Science. Therefore, it is important to know deeply.

Definition

Information Sciences: Information science is an interrelated science that deals with the properties and behaviour of information and control the for and use of information for processing, storage, management and other subject.

Library Automation : Library automation is the application of automatic and semiautomatic date processing machines to performs traditional library house keeping actives such as acquisition, circulation, cataloguing and reference and serials control.

Information Science and Library automation

Information Science concept use in all subject fields. It is related to handling of information, use utilization and processing of information. library automation is on part of in this processes. Information Science could have faster, accuraency to come automation facility. So Automation is a technique which is use in information Science to better utilization information processing and information services. Library and

information centre is centre which is storage, use, utilization and process information. Automation gives it accuracy, speed and mechanism in it.

Prerequisite for Library Automation:

The basis requirement for any library automation program is as below.

- Software packages.
- Hardware
- Program application
- Networking devices
- Database server
- Adequate collection
- Financial assistance
- Maintenance of department
- Knowledgeable manpower.
- Open source software.
- Computer system.

Generation of Library automation software:

In the history of Library automation there are four part generation of Library automation software. This generation are based on their facilities, capabilities and interconnectivity, software of Library automation is a continuous process.

First generation: In the first generation classification, cataloguing, circulation method is the used in this system. It developed to run hardware and software programs for operating system.

Second generation: In the second generation computer system is used in library automation. It offered link between systems, function commands drive.

Third generation: In this generation it is based on open source software & interconnection with open system.

Fourth generation: In this generation computer RFID use for library automation. Internet, web design, facilitates accessing multiple information source.

Necessity of library automation software:

Library have growing organisation is fifth law of library science called us that information is always growth and also growth their storage tools. That why library has needed to mechanism in library housekeeping operations. Library automation best information services in today ICT era.

Nowadays most of libraries have saturated or already have completed the process of computerization such as acquisition, cataloguing, circulation, serial control, OPAC, etc. There are several reason for automation. Considerable saving efforts. Time and resource involved in manual processing can be achieved.

Needs of library automation as below.

- To provide create a report statistic within short time.
- To reduce the duplication of housekeeping operation.
- To promote quality research and share the resource through library networking.
- Improved control covers library collection and library services.
- To provide EDI (Electronic Data Interchanged).
- To provide for quick reservation and materials, booking, web catalogue interface.
- Excellent control over circulation and save time of readers.
- Eliminates human errors, execration, and human willingness while performing routine library work.
- It help to accuracy, speed, fast services all possible work in library.
- To maintain all the records in computerized form.

Implementation of library automation system :

Library automation is a complex process. Library management must develop an implementation plans for the library automation such as project, installation, application programs. Implementing library automation is prepared to a database for library collections and to proper organizing retrieving the information and providing the information to the users. Library automation is used in implementation sector, division of library automation process. It is important for decide method, economical access, other requirement for hardware, software maintains.

- Circulation Section
- Technical section
- Reference Services
- Searching Tools
- Acquisition
- Library Resources sharing
- Serial Control etc

Library automation software packages :

The library automation software activities are develop day by days. Varies software are used in library automation process. Help of software is easy to access library automation. In information science and library automation software increase new version in software which developed software in library.

- SOUL
- KOHA
- E-GRANTHALAYA
- GRANTHALAYA
- SLIM
- LIBSYS
- ALICE for Windows.
- NG-TLMS.
- VIRTUAILS
- LAMP
- AUTOLIB
- TECHLIB PLUS
- WINSANJAY
- LIBSUITE.
- AUTOLIB
- NEWGENLIB
- NEXLIB

Future of library automation :

The development of lib services and library automation in higher learning is complex process to cover up advances of planning for acquisition use of ICT. New technologies library provides several new materials, media, and mode of storing and communication information. The library systems all over the world are going through a process of transformation to address the effects and implications of technological changes. For the future library automation software package are upgraded to users. Library is growing organising, library knowledge is growing rapidly, libraries are procuring the large amount of various collection like books, periodicals, E-resource and non-book materials. To fulfil the needs of the library users.

- RFID: It is smart card based inventory control. Radio Frequency Identification is the technology that is slated to replace barcodes in library application. It is use for library automation such as issue return, Stock verification, Library security etc.

- Web OPAC and M OPAC: Online Public Access Catalogue is versatile search facility; it must be integrated with other modules. By using Boolean operators in all programs. WEB-OPAC: Web-OPAC applications are useful in Public libraries on Android. It is Book Search .it is serving as a gateway to the resource .M-OPAC: is a smart phone based Book search app offers a low cost based platform to all the libraries in world to share book data. It is easy to implement upgraded books data available and their no training required.
- Open Source Software: OSS is software for which the source code id freely available. Anyone can access the sources code and make changes.
- Z-39.50: Information Retrieval Protocol the growth of shared cataloguing and cooperative cataloguing is allow capturing of bibliographic data from remote library serves over the Internet.
- Integrated Access Interface: it is refers to the ability of LMSs to combine multitude of resource and search mechanism.
- Web – centric Architecture: It is based on access for staff and users to ensure platform for library services. It is help to overcome space and time berries.
- FRBP – It is stand for Functional Requirement for Bibliographic Records. It is based on bibliographic data model. It is conceptual model for management of bibliographic databases.
- UNICODE: it is enables the input and display of different language. it is character coding system ,encoding ,representation and handling of text system.

Conclusion:

Information Sciences is generalises field which is use any branch of subject like computer science, social science etc. library and information centre has work to control information. So Library automation is one technique which is use for in it. Library automation is machinery process using by library to perform library housekeeping operations. Many time users did not fulfil their requirement which they want that time library automation fulfil their requirement so it is not giving fully knowledge base services, but support it. Sometime there have been barriers that mismatch all the operation, such as technological error, digital tools, human willingness, human tendency, but there are many advantages of library automation. It gives accuracy in the work as well as speed in work, fast services to library services.

Reference / Bibliography :

- 1) Cooper Michael D.(1996). Design of Library Automation System : New York: Wiley
- 2) Kent Allen(1997). Encyclopaedia of library information science. New York: Marcel Dekkar.
- 3) Boss,Richard W.(1997). The Library Administrator's Automation Handbook, Medford.
- 4) Lloyd, Naomi,ed.(2000).”Library Automation Resources”. <<http://www.escape.ca/automate/re>.
- 5) Yogendra Singh(2004).Library Automation in Academic Library in India: Problems and prospects, Calibre(2003).