

**AUTOMATION OF LIBRARY USING OPEN SOURCE SOFTWARE'S**

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**QR Code****INTRODUCTION**

Computer has gained its importance in every field of human activity because of its, Speed, Accuracy, Storage, Versatility, Automation and Diligence. The main of Library is to provide access to proper information explosion, due to growing demands of the user and shrinking of financial resources, library cannot able to maintain all the reading materials on

demand the only way to overcome from these problem is sharing resources through consortia, and Internet. Library automation reduces the drudgery of repeated manual efforts in library routine by use of library automation collection, storage, administration, processing, preservation and communication etc. (**Shabana Tabusum et. Al.**)

The first application of automatic data processing equipments in libraries can be traced back to 1936 when the University of Texas adapted a mechanical system for its circulation function. In the first half of the 20th century, i.e. in the early 1960s library automation began especially in the U.S.A. after the World War II. During this period, many libraries in North America and in the U.K began to experiment processing of information by using computers. Many techniques were introduced in the universities and national libraries. Several of these systems were like tabulators, sorters; punched cards were used for circulation i.e. for providing books on loan, serial control, acquisition, cataloguing etc. (Laxminarayan, 1986).

Library automation, stated in single term, is the application of computers and utilization of computer based product and services in the performance of different library operations and functions in provision of various services and production of output products. There is a great impact of computers and information technology and its application on the libraries due to which a process of great change is taking place in libraries. Modern technology is tending to alter radically the nature of our society and affect the prevailing economic, political and social values and libraries are also in the process. Industrialized countries were the

first to realize that in the context of stock of knowledge, classical approaches relating to storage, retrieval and utilization of the information were no longer adequate and effective and that the solution lay in making fullest use of new developments in electronics, computer, telecommunications and micro-recording etc. Our country is very much behind in computer application in library operations and services. The reasons could be many; however, the situation is changing fast. Conditions are turning to be favorable and also the government is laying great emphasis on modernization, which covers libraries as well. Above all library 76 professionals are getting motivated and showing keenness to get trained to take up computer based work. (Harinarayana, 1991).

#### **DEFINATION**

According to McGraw Hill Encyclopedia of Science and Technology It defines automation as “a coined word having no precise generally accepted technical meaning but widely used to imply the concept, development, or use of highly automatic machinery or control systems”. (McGraw, 1982)

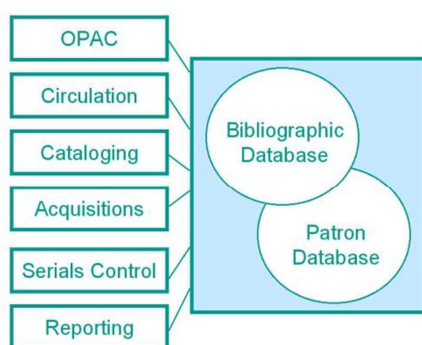
Library automation refers to the use of computer to automate the typical procedures of libraries such as cataloging and circulation.(Wikipedia)

According to Encyclopedia of Library and Information Science, “automation is the technology concerned with the design and development of process and system that minimize the necessity of human intervention in operation”. (Kent, 1977)

## **LIBRARY                      AUTOMATION OPERATIONS**

Library has to perform number of basic operations. These operations are referred to as “Library Automation”.

- Acquisition
- Circulation
- Cataloging
- Serial Control
- OPAC



### **AUTOMATED LIBRARY SERVICES.**

Information services are provided to assist people and enable them in solving their problems and decision making. Modern libraries and information providing a variety of documentation and information services

to support research and development, marketing and trade, management and all other programmes related to the development of institution.

**Mahapatra (1985)** has given the following automated services are: 1. Current awareness Service (CAS) 2. Online Search Service 3. Printed Indexes 4. Selective Dissemination of Information (SDI) 5. Inter Library Loan 6. Stock Verification 7. Reference service

## **ADVANTAGES      OF      LIBRARY AUTOMATION**

**Improved Customer Service**

**Cataloging Improvements**

**Easier Access**

**Collections**

**Lasting Effects**

### **OPEN SOURCE SOFTWARE**

Open-source software (OSS) is computer software with its source code made available with a license in which the copyright holder provides the rights to study, change, and distribute the software to anyone and for any purpose.

## OPEN SOURCE SOFTWARE FOR LIBRARIES

### Digital Repositories

- DSpace
- Greenstone

### ILS

- Evergreen
  - Koha
  - OpenBiblio
  - NewGenLib (NGL)
  - SOPAC (Social Online Public Access Catalog)
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