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Implementation of Automated Library Management System in MGM Institute of Fashion Designing using Koha Open Source Software

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1. Introduction

Library is a fast growing organism. The ancient methods of maintaining it are no longer dynamic and efficient. For expeditious retrieval and dissemination of information and better service for the clientele, application of modern techniques has become absolutely indispensable. Library automation refers to mechanization of library housekeeping operations predominantly by computerization. The most commonly known housekeeping operations are acquisition control, serials control, cataloguing, and classification and circulation control. Library automation or Integrated Library System is an enterprise resource planning systems for a library, used to tracks items owned, order made, bills paid etc. Since the advent to the term automation in 1936, Plethora's of definitions are found in library literature.. Automation is the name gives to an automation system of working.

Keywords: Open source software, koha, management, automation in library.

1.2. Aim and objectives of the Study

The following are the objectives of this study.

- To develop and updated database of Books and other Resources of the College of MGM Institute of Fashion Designing.
- To implement automated system using Koha Library Integrated Open Source Software.
- To carry out the charging and discharging functions of the circulation section more effectively.
- To provide various search options to know the availability of books in the Library.
- To generate the list of books due by a particular member and also the overdue charges.

1.3. Methodology

Software: Libsys, winisis, easy, ibsoft, vtls, slim++, libasoft, Autolib, librarian, libsuit, rovan lms, nirmals.soul etc., **Free and open source:** newgenlib, koha, evergreen, ssh-tunneled, mysql replication. Database dumps using the mysql dump utility, on the hardware level, the production system utilizes a two-disk raid1 configuration for data redundancy in the event of single-disk hardware failure. The system partitions use the file system, which provides another point of data redundancy.

1.4. Statement of Problem

The present study aims to Implementation of Library Automation for the College Library. The title is "Implementation of Automated Library Management System in MGM Institute of Fashion Designing, Using Koha Open Source Software"

1.5. Plan of Action

1. Visited and observed of the College of Fashion Designing Library.
2. Taking the stock of the situation.
3. Physical exam of the books.
4. Bibliographic Data has been colleted and entered in excel sheet.
5. Classification humanities for all the books general devised and assessment visited



2.2. Administration

Parameters administration is a very important feature of the intranet module of KOHA. Various default parameters can be changed using this functionality. It allows us to define different parameters for the functioning of KOHA like the library branches, book funds, currencies, item types, the categories of borrowers, the charges taken for the different types of items etc. "System Preferences" is the most important module of KOHA. It deals with administration and maintenance part of KOHA Library System. Only Chief Librarian, Chief Administrator or person of similar designation can hold access rights to this module.

2.3. Making new order

Here, the first step is to search for the suppliers who will deliver the book. The module allows us to search for the supplier in the acquisition module itself.

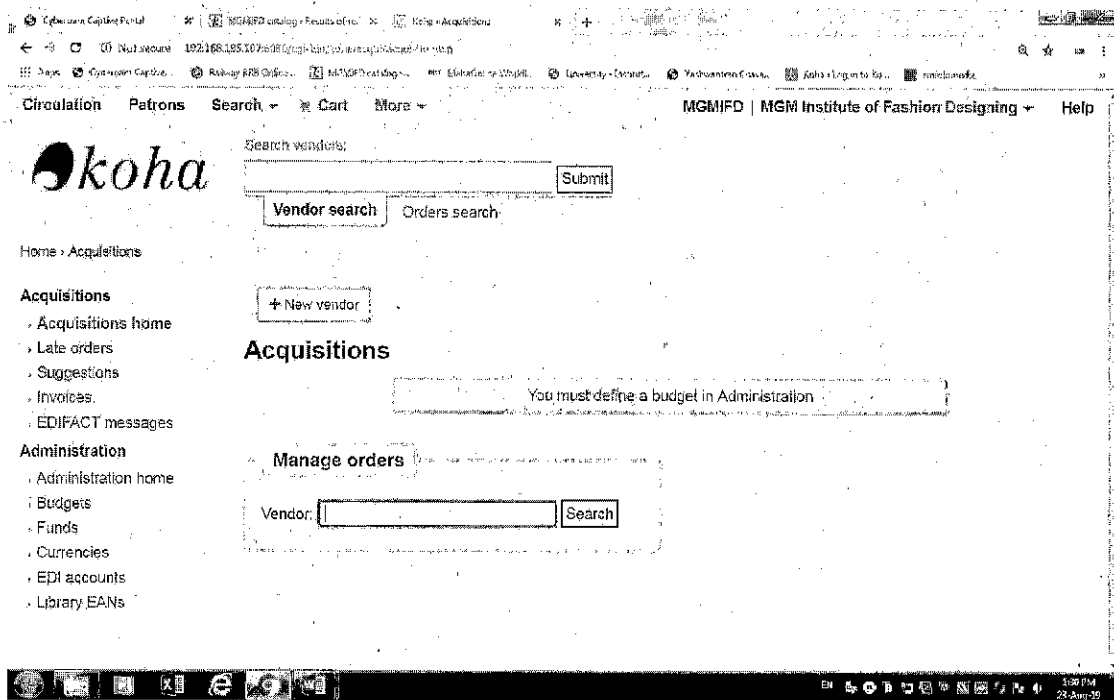


Figure 2: Add New Vendor module

2.4. Adding Bibliography to KOHA

To create Bibliography record of a document, once goes to the catalogue search page and there we find link to add new Bibliography page. If we click on that link we reach the following page. Below screen shows the bibliography screen to enter the details of the book. To ease the data entry work one marc record is divided into 0 to 9. We can click on the respective number to fill into the specific marc tags. For example, 0 will contain tags like 010, 020, 043, etc. This also makes the work of maintaining MARC tags.

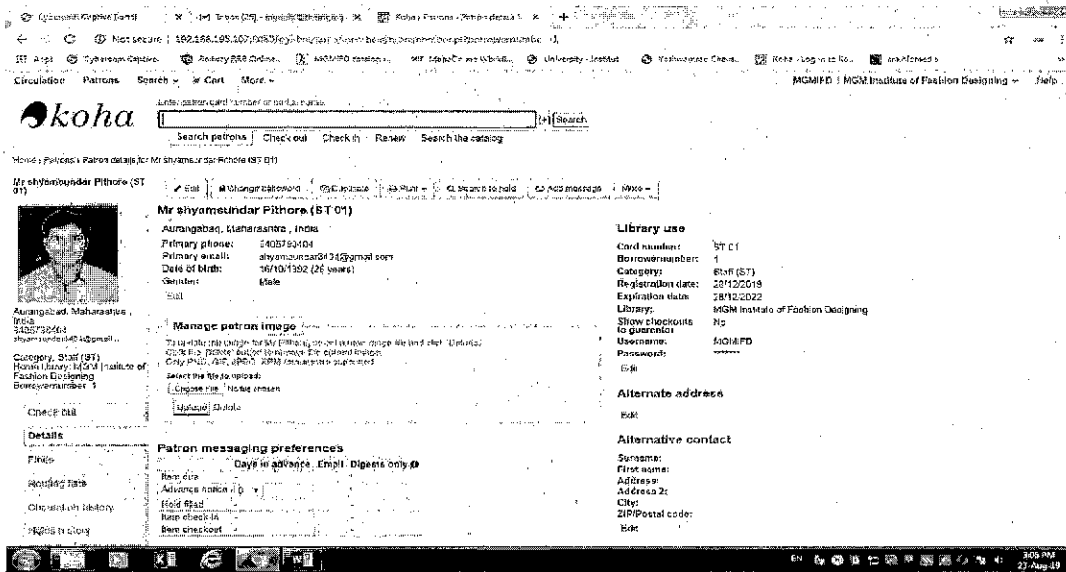


Figure 4: Administrative information about the patron module

2.8. Circulation Module

The next important module is circulation module, here we can assign even the students themselves can renew the issued the documents on their name. Its main window looks like the following figure:

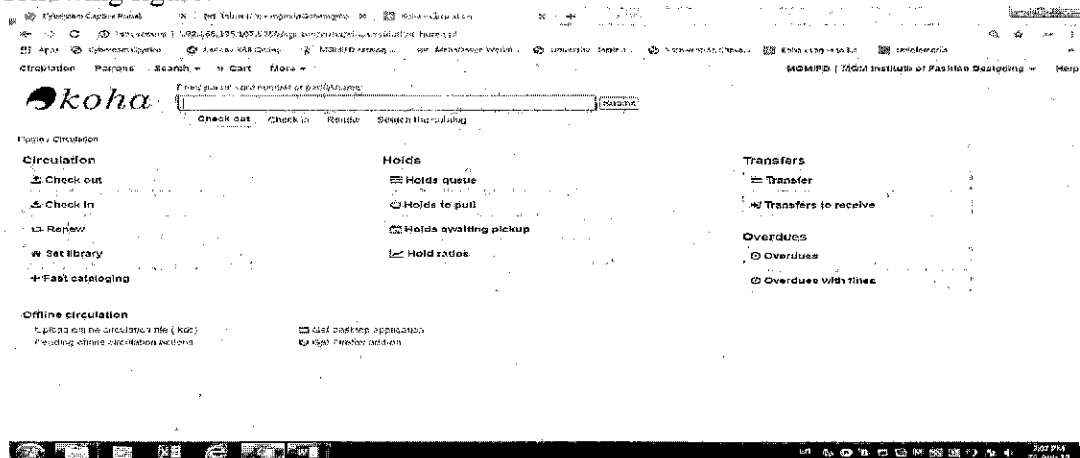


Figure 5: Circulation module

- i) For the process of circulation, we have to enter either the borrower card number or the partial last name of the borrower, as shown in the above picture.
- ii) After entering the above information, it shows the patron information with his/her category and one hyperlink is also available to look into more details of the patron, if required. Along with this, if we want to issue any book, then the barcode of the book should be entered and the date of issue needs to be selected.



library Automation. This project had the basic objective of designing a bibliographic database for the MGM Institute of Fashion Designing library, with which the automation of circulation routines is carried out. From this point of view it may be concluded that Koha is a useful package for the creation of a database and for information retrieval. Koha is an integrated software system with all the required models for small to very large libraries. It is found that this automation projects will serve as a model for any library. Being an open source, any Library wanted to go for automation for their library housekeeping operations can make use of this software. The following problems faced in implementation of automated library management system in the MGM Institute of Fashion Designing library.

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