INNOVATIVE AUTOMATED SOFTWARE-SARAL

MISS. AWANTIKA VISHAL WANKHEDE

LIBRARIAN

Sheeladevi college of education

Sainik chowk, Dattawadi, Nagpur

Abstract: Today is the information Era and the concept of digital libraries is the revolution by Information and communication technology (ICT). Every Libraries are getting automated. Automation of Libraries are given easy service to computerized collections and saving the time of librarian and users also. The traditional closed access libraries are shifting towards automated e-library. Digital Libraries saves a lot of time as very little effort is sufficient to collect proper details about collections. And also provide charts and graphs depicting data for various years so that they facilitate easy comparison one of the impacts of the digital revolution on Digital Libraries has been to bring about changes in the utilization of physical space. Every Library is getting Digital today and many software programs are available in the market. Saral-Lib is one of the best software for libraries. Saral-Lib is a simple, easy-to-access and copyrighted software. It is available at a small price and provides full automation facilities. Currently more than 70 colleges using this software for automated their libraries.

Keywords: - Automation, Software, Library, ICT.

I. INTRODUCTION

SARAL-LIB Library Automation Software it used to maintain the whole Record of the library. It is developed by Saral Software Services. It established in 2021. According to Radhakrishnan commission 'Library is heart of institution. Today's world is undergoing rapidly change from the world and information is very important part of everyday of our life. Library management system is very essential part of manual Library. Saral-Lib Software that uses to maintain the library record, like: Total number of books in library, category of books, which book are present in library, issued book, renewed books, binding books, withdraw books, how many visitors visit in the library whole day. It also late recorded late fine charge. etc…
SARAL-LIB Library automation System is very helpful to reduces the manual work of librarian. It is very easy to maintain a database of library like: CIRCULATION – It is a main section of library without this section library is no value. It provides lending services and facilities for return of loaned library materials. It is showing the issue-return chart. Its software beneficial for librarian as well as library users. Because it's very helpful and following the 4th law of library science 'save the time of reader' which given by S R Ranganathan.

> ➢ **DEFINITION OF LIBRARY AUTOMATION:**

1. Library automation may be defined as the application of automatic and semiautomatic data processing machines (computers) to perform traditional library housekeeping activities such as acquisition, circulation, cataloguing and reference and serials control. Today "Library Automation" is by far the most commonly used terms to describe the mechanization of library activities using the computer. (Uddin, 2009).

2. "Library Automation is the use of automatic and semiautomatic data processing machines to perform such traditional library activities as acquisitions, cataloguing, and circulation. These activities are not necessarily performed in traditional ways, the activities themselves are those traditionally associated with libraries; library automation may thus be distinguished from related fields such as information retrieval fields such as information retrieval, automatic indexing and abstracting and automatic textual analysis" (Kent, 1977).

➢ **OVERVIEW: SARAL-LIB LIBRARY AUTOMATION SOFTWARE**

The overview of software is explained so much with below image:
Visitor's details, Issue return details, Books details all details shown in dashboard in the pie diagrams.

Image No.1

1) USER CREATION:

Image No. 1.1

2) BOOK MASTER:

2.1)   MASTERS: –

1) **Location Master: -**This feature shows exact location of books and other materials it can be help to library staff and users also for finding of books easily.
2) **Register Master: -** Register master given facility to show all details as like Register entries.
3) **Budget Master: -** Budget showing yearly budgets previously expenses etc.
4) **Currency Master: -** It is given all currency symbols.
5) **Language Master: -** It's also given the facility of multilingual language and easy to work in our native language.
6) **Book Master: -** In book master section software shows the all-books entries, e- book, journals these three columns as per our requirements we click on this icon and enter the name of books.
7) **Author Master: -** It is given in simple format all authors list in alphabetically.
8) **Shelf Master: -** It's showing the list of books for which book kept on which shelf. It is also helpful for stock verification.
9) **Vendor Master: -** It can be shown vendors list and also showing full details regarding which book purchase from which vendor.
10) **Publisher Master: -** It is related to vendors but the publisher list shows as per our requirements.
11) **Subject Master: -** In this section we have to add new subjects as per our departments.

2.2) BOOK ACCESSIONING: -It can be easily done automatically accessioning to all books or other materials after entries.

2.3) Change Accessioning Details: -When we make entries If we put some information wrong, or if we want change same details so we can easy change detail by change accessioning details. In simple words alteration of details.

2.4) Loss Book: - Some Books Damaged or in in bad condition then we enter in lost section.

2.5) Missing Book Entry: -At the time of stock verification we are not found some books then we make entries on this section Some books damaged or in in bad condition then we enter in lost section.

2.6) Write Off Book: - Some books are withdrawn from our collection by any reasons then we make entries in write off book section.

2.7) Dissertation Entries: - Here also facilities off Dissertation entries for thesis and other materials.

2.8) Delete Accessioning: - Wrong accessioning given to some books then we delete the accession number.

Image No. 2

3) BORROWER MASTER: -
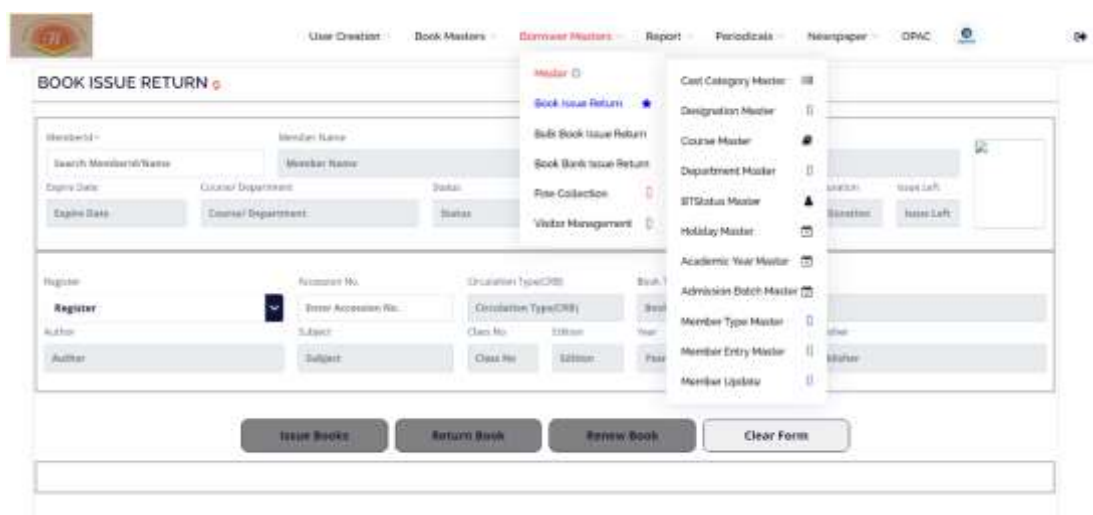
Image No.3

3.1) Cost category master: - Cost category master showing costing of particular books and expenses of particular head.

3.2) Designation master: - It showing the designation of users and creating a designation to individual users.

3.3) Course Master: -It showing how many courses are given in your college.

3.4) Department Master: - In this section we add many departments which are available on our college.

3.5) BT Status Master: - In this section we check students I'd status.

3.6) Holiday Master: - Holiday master given details about how many holidays in the calendar year for library.

3.7) Academic year master: - It showing details particular year wise all records.

3.8) Admission Batch Master: - Batch wise students details contained on this section.

3.9) Member Type Master: - Member type means which type of member Is use our facilities is show.

3.10) Member Entry Master: - In this master we make user database or details.
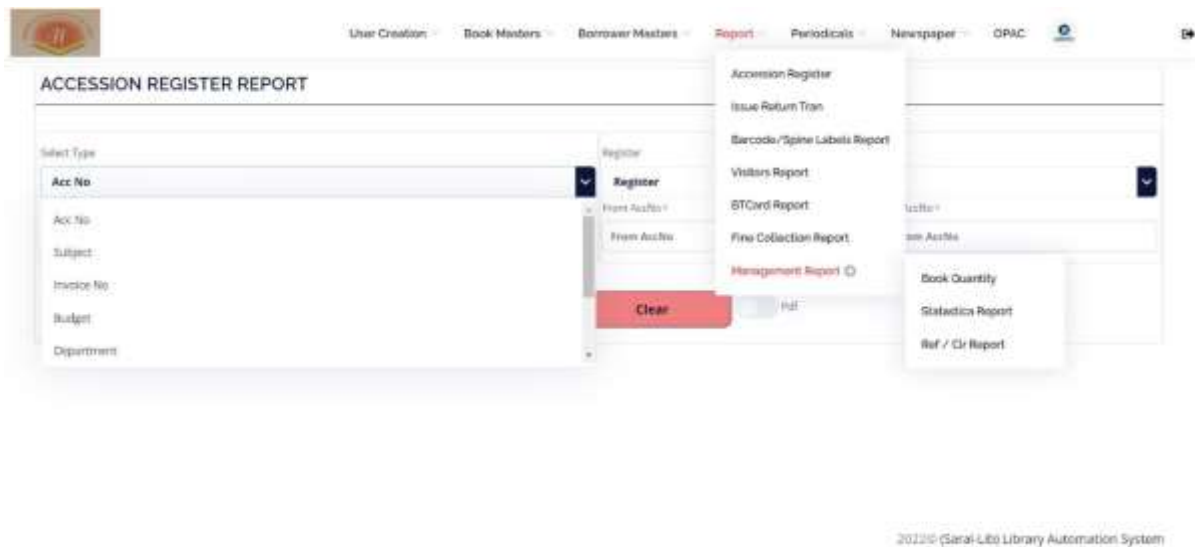
4) REPORTS: -

A well-designed system provides a variety of reports required for day-to day, as well as occasional work/decision making process. The system should provide both statistical as well as management report.

Some Reports are given below:

1) Budget wise, department wise, date wise, vendor/publishers and requester wise, etc. as the case may be.

2) Module enables to generate report by budget head, department, suppliers/publishers, currency, title payment status, payment history, payment refund, membership and all correspondence letters to the accounts and vendors/publishers, invoice register, etc.

3) One can generate various report namely issues received, not received issues, missing issues and status wise issues by filtering the list by using various options like titles, subject wise, publishers wise, date wise, etc.

4) ILMS has provision to take out report using any of the following options to generate the report under each head:

➢ Accession number

➢ Departments

➢ Budget Head

➢ Subject
➢ Invoice No.

Image No. 4

Many report as given from Saral-Lib software in simple format in a fraction of seconds. all report shown in image number 4 described as follows:

4.1) Accession Register - It is the permanent record of library materials which is sequential enter in library in that register maintain to all details about library materials. Its maintaining a manual register that has been going on for year was a very difficult task for librarian but Saral-Lib library automation software It make easy to maintain and also decrease the work of librarian.It is not only helpful or useful librarians but also helpful to the student because they will also use this system for checking of books status. They will also know to   various type of books in the library. (Other than text book).Thus, it's very helpful and useful to all manual work of library.

4.2) Issue Return Report: - The feature that can be included in the library book issue and return system are as follows:
1) Book I'd: this is a unique I'd through which the book can be tracked.
2) Borrower: It is the person who will borrow the book from the library.
3) Date of Issue: It is the date that will be recorded on which the book will be issued.
4) Date of Return: It is the date on which the particular book will be returned.

4.3) Barcode/ Spine Labels Report: - It helps to the library staff can identify the membership status of a user. For that barcode is to be printed on the library membership card, the card will be scanned by the barcode scanner and the data will be transformed through library. It also used to spine label books, magazines, journal and CD-DVD and other documents.

4.4) Visitors Reports: - Its facilities manage huge number of visitors. It helps to ensure proper safety and security of the library visitors. who comes in and out the library along with checking availability of active members details.

4.5) BT Card Report: - This report showing members details course wise, member type separately.

4.6) Fine Collection Report: - It calculates the fine due for non-return or lost and damaged books as well as late fine (due fine)

4.7) Management Report:

4.7.1) Book Quality
   4.7.2) Statistic Report
   4.7.3) Reference Report
   4.7.4) Circulation Report

5) **Periodicals: -** Periodicals are any type of publication that is published in a series, or periodically (hence the name). Daily newspapers, monthly magazines and journals, and annual newsletters are all periodicals, and the articles inside them are periodical article

5.1) **PERIODICAL ENTRY:** Many Facilities are given for this section all details and image shown below:

   5.1.1) Periodical Entry: - This feature gives us facilities to make entries of Periodicals.
   5.1.2) Periodical category: - Categorized all periodicals from old serial to new serials.
   5.1.3) Periodical Type: - In this feature we enter type of periodicals for easy finding of same titles.
   5.1.4) Frequency: - We also maintain the periodicals frequency wise in this software.

   Periodicals Accessioning: - Particular periodical entries maintain in this software and all have an accession number.

Image No.5

6) **Newspaper Master: -** Newspaper entries are being made in this software separately.

   6.1) Frequency Master: - In this section Frequency of newspaper is showing...monthly, weekly, Daily, etc.
   6.2) Newspaper Master: - In this section showing all details of Newspaper like name, Rate, copies, etc.
   6.3) Newspapers Transactions: -Transactions shown in this feature like Amount, how many copies received, payment details, etc.

Image No. 6

7) **OPAC: -**

Online Public Access Catalogue is a Library Catalogue it's a Digital/Online Bibliography of Library Materials Such as Text Book, E-Books, Journals held by Library that is available to the Library Users/Readers.

Image No. 7

➢ **OBJECTIVE:**

1) Save the time of librarians and readers:

   ➢ This law presents the biggest challenge to library administration.
   ➢ A library users must be assumed as a busy person.
   ➢ So that policies must be formulated according to the needs of the readers (users).

2) Implications: -

   ➢ Open Access: - open access, the readers can themselves go to the shelves to search their book and save their time.
   ➢ Classification and Cataloguing: -
   ➢ Proper classification schemes should be used in the library for arrangement of books. The library catalogue should aim to provide different approaches to the users. It should include analytical entries for composite books.

> ➢ Charging System: -
> ➢ Modern charging system like photo charging system. Ticket system. Computerised charging system, barcode system and radio frequency identification (RFID) system should be adopted.

3) Gain valuable experience in the handling of the material.
4) Preserve information in electronic format for subsequent use end recycling. Shorten the time required for parallel operation of both manual and automated systems.
5) To know the impact of IT in library software
6) To Find out the problem faced by the users while accessing and using the libraries.
7) To study about the management of software.
8) To find how to reduce the burden of library.
9) How to search easily in library stacks.
10) Remote accessibility facilities.

➢ **SAMPLE:**

Samples collected from software manuals, official site of Saral software and also details collect from associates who connected with Saral software provider.

➢ **METHODOLOGY:**

The Investigator combined survey method to collect primary data and secondary data.

➢ **ADAVANTAGE OF LIBRARY AUTOMATION SYSTEM: -**

1) It saves the manpower.
2) It saves the time of reader and librarian
3) It is very user friendly and easy to handle the system and maintain the record of library.
4) It is very easy for students they can easily search and find the book and all library material if they want.
5) It is reducing the burden of librarian.
6) It reduces the all-manual work though the software and it give the correct information of library materials that have been recorded automatically.
7) Remote accessibility facilities.

➢ **DISADAVANTAGE OF LIBRARY AUTOMATION SYSTEM: -**

1) Online system requires high speed internet connectivity.
2) Risk of computer virus.
3) The automation feature is not available in offline.

➢ **CONCLUSION:**

The paper will help other libraries that are considering the possibility of using source integrated library automation software in determining the most suitable one.

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