Library Automation with E-Granthalaya Software

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ABSTRACT

The effect of ICT has changed the "Traditional Libraries" in to "Automated Libraries". Libraries were served as "Hybrid Libraries" and new forms of libraries are "Digital Libraries" & "Virtual Libraries". This paper is concentrated on the Library Automation its requirements and various components needed with special reference to E-Granthalaya software.

KEYWORDS: Automation, Cataloguing, Circulation, OPAC, E-Granthalaya software version 4.0.

INTRODUCTION

Automation is a way to make the system automated. ""Automation is the automatic control of an apparatus, process or system by mechanical or electronic devices that take place in human organs of observation, effort or decision"".

According to "McGraw-Hill", the Encyclopedia of Science and Technology (1982) 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 system"." "From the above definition, we can observe that "Automation is the application of machine to perform a task automatically"."

"According to Oxford English Dictionary, Automation "is the application of automatic control to any branch of industry or science by extension, the use of electronic or mechanical devices to replace human labour"."

Need For Automating the Library

A Computer has revolutionised all fields of Knowledge. The need for automation is emphasized because of the following reasons:

- It can manage quantity of facts and records.
- Speedy processing and its retrieval. Provide Bibliographical manipulate at "Local/Regional/National and International Levels".
- Heavy Bulk of information may be saved with inside the PC and thus, sure troubles which rise up with storing records in wooden shelves are avoided.
- Decrease repetitious pastoral work.

- Allow bibliographical manipulate, checking and updating.
- Retrieval of information in user-defined format is easy.
- The library on this globe is self-enough and consequently to meet to the user's demand, the term "resource sharing" is coined. In resource sharing the library's resources are lent to another library for a stipulated period. As a result, "Library automation encourages resource sharing by saving both library and users time and efforts.

Library Automation Basic Requirements

- Proper Collection of Books
- Hardware
- Software
- Well Qualified Staff
- User Training
- Maintenance and development

The NIC's Contribution in Library Automation

The National Informatics Centre was established in 1976 by Late N Sheshagiri. It is an Indian government organization under the "Ministry of Electronics and Information Technology", "Government of India for Library Automation and Networking of Government and Semi-Government Libraries". "The Platform Provides a complete ICT solution for Library computerization with integrated Library Management Software, Digital Library Module, Cloud hosting environment and a Library Portal (OPAC) with NICSI empanelled Roll-Out Services and Support".
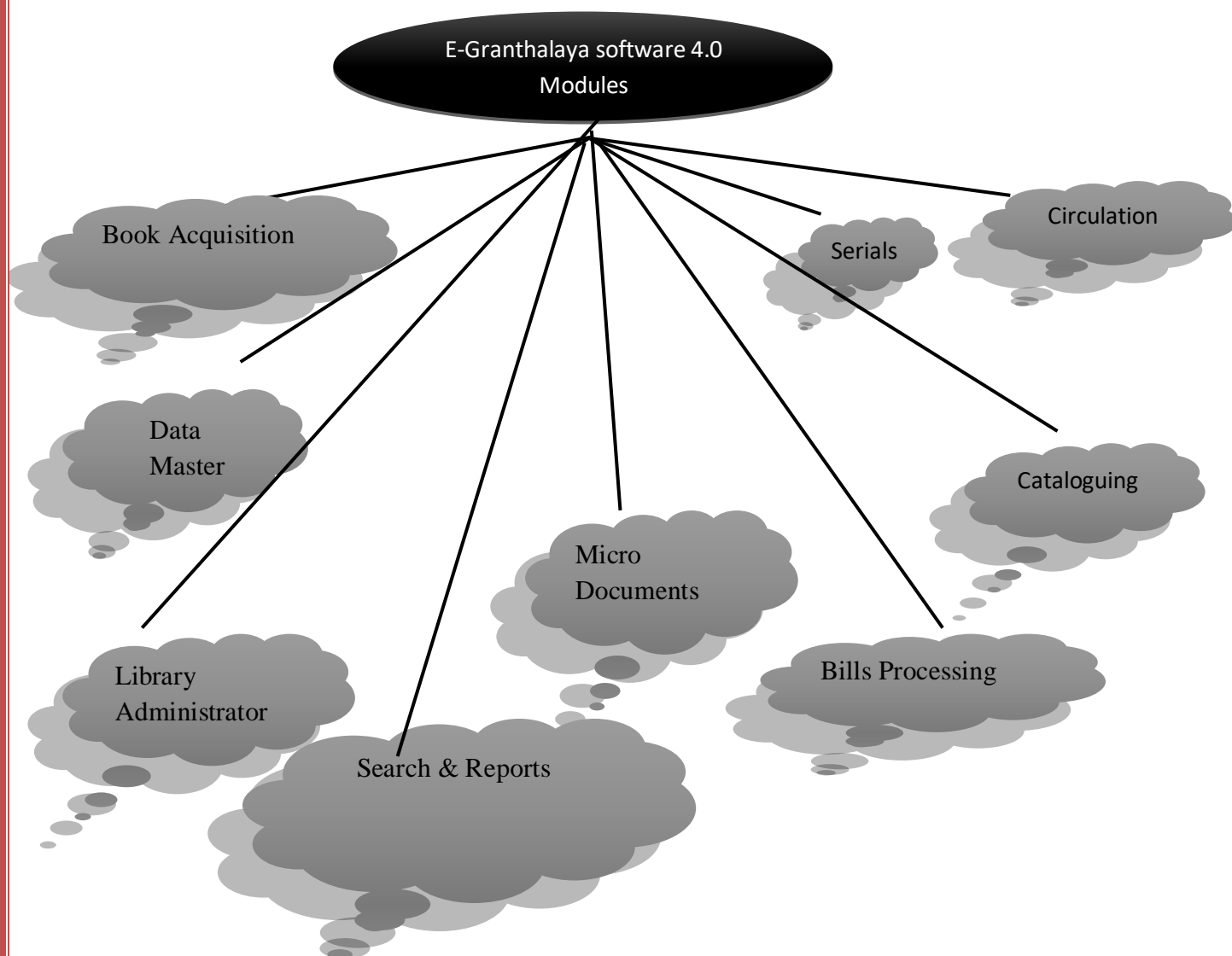
"E-Granthalaya" Software

National Informatics Centre (NIC), which is part of the "Ministry of Electronics and Information Technology of India", devised and developed the E-Granthalaya programme. The E-Granthalaya programme is used to convert "traditional libraries" into E-libraries with digital library services, as well as to provide a variety of online member services through the Single Window Access System. E-Granthalaya 4.0, the most recent version, is a "Cloud-Ready Application" that offers a web-based enterprise solution with a centralised database for a cluster of libraries. With the use of the most up-to-date ICT technology and Cloud hosting, the ICT solution is fully compliant with international standards in libraries. PostgreSQL is used in "E-Granthalaya 4.0".– "an Open Source DBMS as a back-end database solution and is made available in NIC National Cloud (Meghraj) for Government Libraries on a request basis with hosting of applications and databases for online access".

"E-Granthalaya 4.0" Module

"E-Granthalaya 4.0" Module has the following modules

1. Library Administrator
2. Data Master
3. Book Acquisition
4. Cataloguing
5. Circulation

6. Serials
7. Micro Documents
8. Bills Processing
9. Search and Reports

Library Administrator

The Library's Personnel can use this module to manage the following primary functions:-

- Update "Library Profile"
- Manage Library Users
- System Data
- Data Entry Format
- Library Team
- Notice Board
- Photo Gallery Manager
- Receipt Manager

- Export Records
- View Visitors Log
- Send Messages in Email
- IIL Request Manager
- Internet Resources Approval
- Data Entry Statistics

Master Data

The Library's staff can use this module to do the following tasks:-

- Update my Profile
- Manage Library Committee
- Committee Members Detail
- Holiday Calendar
- Publishers Directory
- Vendors Directory
- Library Section
- Subject Directory
- Letters Templates

Book Acquisition

This Book acquisition Module manages the library orders placed with vendors and manages the purchase budgets. It enables the library employees to handle the following primary functions connected to library item acquisition:

- Add New Title
- Manage Approval
- Manage order
- Accessioning

Cataloguing

This Cataloguing module is used for book retro conversion, book processing technology obtained from acquisition, printing a variety of records to be verified, with title and accession number searches and so on. This module provides several frameworks which help in the cataloguing of books, monographs, serials, e-resources etc. It allows searching with various fields like title, author, ISBN, ISSN etc. It includes:

- Retroconversion
- Change Copy Status
- Stock Verification
- Generate Bar Code
- E-Resources Manager
- Update Holdings
- Authors Directory
- Internet Resources

Circulation Module

The module is responsible for all Circulation-related functions. This module has been designed with great attention, starting with member management, library item maintenance and status, issue/return reminders, circulation transactions, and overdue charges based on item status. The Circulation Module's main functions are as follows:

- Member Management
- Issue Return
- Circulation Transactions
- Receipt Manager
- Import Members Data

Serial Module

Managing Serial is the most complicated task in the library. The serial module assist in managing serial subscription for journals, magazines and newspapers. Major functions of the Serial Module are:

- Add Serial Title
- Manage Approval
- Manage Orders
- Manage Subscription
- Manage Schedules
- Receive Loose Issues
- Generate Reminders
- Bound Journals

Micro Documents

The module Deals with the :-

- Newspapers Clipping services
- Article Indexing Services

Bills Processing

The Modules deal with the budget-related aspects and the bill processing areas. It includes:

- Budget Analysis
- Add Budget
- Bills Processing

Search and Reports

This module consists of the following:-

- Accession Register
- Faceted Search
- Search from NET
- Documentation Bulletin

- Bibliographies
- Acquisition Queries

CONCLUSION

Automation has transformed traditional libraries into automated libraries. Now-a-days automation has become a most essential part of libraries. In the era of information explosion, Where everything is going to be digitized and getting automated. Everyone needs speedy access to all the resources but with the increasing dissemination of knowledge, so for that purpose, Integrated Library Management Software plays a very important role in providing speedy access to the users as well as information professionals. E-Granthalaya software has become a very good software which is easy to learn and simple to use and provides access to various governmental organizations.

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