Chapter No. 4

LIBRARY MANAGEMENT SOFTWARE PACKAGES

4.0 INTRODUCTION:

Prior to the 1970’s, library automated systems were dedicated to a single function designed for a single-purpose operation. The circulation function was the first library operation to be automated due to its repetitive, routine and time consuming, multitasks (eg. Check-out, Fines, Notices etc.) In the last 1970’s and early 1980’s, vendors of automated systems introduced the Online Public Access catalogue systems, those that combine circulation, OPAC’s and cataloguing had became widely accepted in large libraries. These systems operated on mainframe & miniframe computers. The high cost of these computers and of the automation software were beyond the reach of many media centers and small libraries.

The proliferation of microcomputers in the early 1980’s provided an incentive to automate media centers and small libraries. Computer Cat, an Apple II microcomputer based on line catalogue was the first automated system to be introduced in a media centre. Developed by Colorado computer systems in 1981 for mountain view Elementary school in Colorado the system comprised three main components: OPAC, Cataloguing and Inventory. Computer catalogue was a replica of the card catalogue; it provided author, title and subject searching capabilities.

Further chapter consists with to describe library management commercial and open source softwares developed in India.
4.1 Software for University Libraries (Soul):

University Libraries are complex entities, having large collections and serving a huge clientele. To carry out various operations in a library effectively, there is a need for automation. Computer and Communication Technologies have brought revolutionary changes in the information acquisition, processing, storage, retrieval and dissemination. Keeping in view the latest friends information technologies (IT), INFLIBNET Centre has developed a windows based Library Management Software ‘Soul’, which provides a total solutions for Library Automation. Soul is design using Client-Server Architecture, which imparts extra strength to storage capacity, multiple access to single data base, various levels of security, backup and restorage facilities etc. This software has been designed after a comprehensive study of different library related functions, practiced in university libraries. It has MS-SQL Server 6.5 RDBMS as the back end. This user friendly software is quite easy to work with. The software comprises following modules.

a) Acquisition  
b) Catalogue  
c) Circulation  
d) OPAC  
e) Serial Control  
f) Administration  

(Nair, Raman R. 1992, pp.142-156)
OPAC Module

Catalogue Module
The in-built network features of the software will allow multiple libraries of the same university to function together of the same university to function together as well as access distributed databases installed at various university libraries and union catalogue mounted at INFLIBNET using VSAT network.

4.1.1. Acquisition Module:

Acquisition Module
Acquisition modules enables library to procure new books from different publishers. SOUL covers all the function under acquisition module to enhance the collection development of the library. Titles can be procured either by through request from member or sent by suppliers on approval. The bibliographic information are stored in the request form, which provides maximum bibliographic to place the order. SOUL keeps the track of library’s annual budget and its further allocation to different heads. SOUL gives the library staff to generate number of reports and letters, which helps the librarian to streamline the acquisition process and farther increase the efficiency in work. SOUL has user friendly menus to order, receive and process the payment of books whole module is divided in to following seven sub-modules.

1. Suggestion Management
2. Order processing
3. Receiving
4. Payment
5. Master database
6. Reports

4.1.2 Circulation

Circulation Module

Circulation module is heart of the library it deals with all the transactions between member and library entities. SOUL provides user friendly and enhanced
circulation module and reports. It takes care of all the functions that come under circulation module. Function of circulation can be broadly categorized as follows:

1. Membership Management
2. Transaction Management
3. Inter Library Loan
4. Fine Management
5. Reminder
6. Search Status
7. Reports
8. Maintenance

4.1.3 Serial Controls

Overview

The serial control system maintains data about journals, annual reports, newsletters which the library receives periodically. Module covers proposals for journals, approval of journals for subscription, raising subscription orders, follow-up of the arrival of loose issues, Binding of loose issues. It also keeps track of the history of journals like title change, title split, title merge, title holding. It covers journals obtained on donation or exchange as well.
SOUL minimizes data entry required for serial controls. Once a bibliographic detail is entered in the system, all further processing refers to this record and updates it from time to time. It generates the arrival schedule for the loose issues of journal.

Soul’s serial control module helps librarian to streamline the monitoring of periodicals by generating a large number of originating and follow-up letters and reports required for various purpose. It uses the data entered to generate numerous letters of default text. Library can modify individual letters text if required. Each module of serial control has reports facility such as title bibliographic, issues not received, accession register, stock verification etc.

(Vasanta and Mudhol 2000, pp.97-119)

4.2 LIBSYS SYSTEM

Libsys is an integrated library management s/w package designed and developed by Libsys corporation New Delhi. It was initially developed in COBOL language but now converted into C language and covers all the activities of library related to acquisition, circulation, cataloguing, serial control, articles indexing, abstracting, OPAC etc. Libsys follows international standards such as CCF, MARC etc. Libsys has been installed at about 70 libraries in the country. It has following special characteristics; Interactive and screen oriented, menu driven, powerful editing
facilities, user defined security, help and multilingual etc. the package available under UNIX, VMS, PCAT and minis.

(Nair, Raman R. 1992, pp.142-148)

LIBSYS is built around its own bibliographic database following ANSI Z-39 format. It supports variable field length for different types of documents in the database. The acquisition system deals with ordering of library material, receipt monitoring, invoice processing and accessioning. It also maintains expenditure and budget analysis by respective account head.

The cataloguing system makes available various catalogues/index’s online for instant references. It has powerful data entry facility which also provides option to accept data in standard machine readable format such as CCF (ISO : 2709), MARC (ANSI-Z39), etc.

The circulation system maintenance up to data membership records and the latest status of collection meant for circulation. It performs all the functions related to circulation providing suitable checks at every stage. It takes care of infrequent but routine functions such as bindery record management, display of recent additions, and so on.

The Serial system provides control of periodical subscription and subsequent of the schedule arrival of individual issue. It maintains record of budget sanctioned for serials under different categories, amount encumbered and expended, thus providing complete budgetary control. This also handles serials which may be received on grants or exchange.

The article indexing and abstracting provides facility to create, separate article database. Apart from addition, modification and deletion of article records in the database it has option to provide different services like SDI, documentation, bibliographies etc. from article database.

The OPAC (online public access catalogue) provides online facility to search the bibliographic databases extensively, which also includes word based search facility using Boolean operations. The OPAC also provides the periodic list of recent additions to library collection and allows users to find material issued out to them as well as put material on reserves etc.

(Vasanta,N and Mudhol,M.2000, p.121)
4.2.1 Circulation System

Various functions related to circulation system include:

- Members records
- Collection updates
- Front desk operations
- Recall/follow-up
- Inter library Loan
- Serial circulation
- Fine collection

The circulation system of LIBSYS in the following sections.

- Members records
- Collection updates
- Front desk operation
- Inter library loan
- Serial circulation
- Fines collection
- Reports
- System set-up
- House keeping

For entering LIBSYS system, one needs a valid user ID and its password. Secondly, the user should have access to circulation system and it functions. From system prompt, an exciting LIBSYS and entering user ID and password following main menu of LIBSYS appears.

<table>
<thead>
<tr>
<th>LIBSYS system</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acquisition</td>
</tr>
<tr>
<td>systemCataloguing</td>
</tr>
<tr>
<td>systemCirculation</td>
</tr>
<tr>
<td>systemSerial system</td>
</tr>
<tr>
<td>Articles indexing</td>
</tr>
<tr>
<td>OPAC</td>
</tr>
</tbody>
</table>
On selection of circulation system, following two windows appear:

- Member records
- Collection updates
- Check-out
- Check-in
- Renewal
- Reservations
- Recall/follow up
- Inter library loan

- Inquiries
- Reports
- System set-up
- House keeping
- Serial circulation
- Fine collection

( Saxena and Srivastava 1998, pp. 9-17)

**House Keeping**

On selection of appear , providing for this function, another window specific selection for flushing our transactions. Log file, fines file, cancelled records, reservations etc.

**Serial Circulation**

There is user interface of circulation of accessioned learned volumes/loose series without any accession number or computer recognizable control number, as described in serials system. The functions for accessioned serials include check-out, check-in and renewal. For circulation of loose series, there are 2 functions namely, check-out and check-in and renewal.
Fine collection
The fines are computed while rate checking in or renewal of a document and members record updated with respect to fines. The subsequent fine collection is based on member ID which accepts the amount collected against any fines for the members.

4.2.2 Acquisition System
On selection of acquisition system, following four windows appear.

<table>
<thead>
<tr>
<th>Ordering</th>
</tr>
</thead>
<tbody>
<tr>
<td>Enter title</td>
</tr>
<tr>
<td>Request to Vendor</td>
</tr>
<tr>
<td>Approval form</td>
</tr>
<tr>
<td>Approval status</td>
</tr>
<tr>
<td>Return</td>
</tr>
<tr>
<td>Update title</td>
</tr>
<tr>
<td>Place order</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Gifts/Grants</th>
</tr>
</thead>
<tbody>
<tr>
<td>Entertitle</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Invoicing</th>
</tr>
</thead>
<tbody>
<tr>
<td>Receiving</td>
</tr>
<tr>
<td>Invoicing</td>
</tr>
<tr>
<td>Payment requisition</td>
</tr>
<tr>
<td>Payment details</td>
</tr>
</tbody>
</table>
Records Keeping:

This selection gives following window allowing for the selection of various records keeping used in the acquisition process.

<table>
<thead>
<tr>
<th>Record keeping</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vendor record</td>
</tr>
<tr>
<td>Budget head</td>
</tr>
<tr>
<td>Budgets</td>
</tr>
<tr>
<td>Currency code</td>
</tr>
<tr>
<td>Exchange rates</td>
</tr>
<tr>
<td>Notice text</td>
</tr>
<tr>
<td>Accession details</td>
</tr>
</tbody>
</table>

System Steep

On selection of this function, following window appears providing selection for library appears and system.

<table>
<thead>
<tr>
<th>System set up</th>
</tr>
</thead>
<tbody>
<tr>
<td>Library parameters</td>
</tr>
<tr>
<td>System options</td>
</tr>
</tbody>
</table>

The library parameters enable entering defaults for national currency, vendor, budget head, discount, etc. Some of the parameters enable selecting procedural option applicable for the installation.

4.2.3. Cataloguing System:

On selection of cataloguing system, following tow windows appear:
Maintenance:

This is used for maintaining the bibliographic database comprising different types of document in the library. On selection of this function, following menu appears.

Maintenance
Titles-in-processes
Enter title
Update title
Update holdings
Remove title
subject update
Cataloguing entities
List by Accession No.
Change Accession No. 1
Retrospective conversion
Change type of document
Online Searches:
LIBSYS provides extensive searching on the bibliographic database. One selection of this function, following menu appears:

<table>
<thead>
<tr>
<th>Catalogue/Index</th>
</tr>
</thead>
<tbody>
<tr>
<td>[ ] Title</td>
</tr>
<tr>
<td>[ ] Author</td>
</tr>
<tr>
<td>[ ] Classified</td>
</tr>
<tr>
<td>[ ] Subject</td>
</tr>
<tr>
<td>[ ] Place</td>
</tr>
<tr>
<td>[ ] Publisher</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Searches</th>
</tr>
</thead>
<tbody>
<tr>
<td>[ ] Boolean</td>
</tr>
<tr>
<td>[ ] KWIC</td>
</tr>
</tbody>
</table>

Current Awareness
On selection of this function, following menu appears:

<table>
<thead>
<tr>
<th>Current awareness</th>
</tr>
</thead>
<tbody>
<tr>
<td>Display</td>
</tr>
<tr>
<td>Check list</td>
</tr>
<tr>
<td>New arrivals</td>
</tr>
<tr>
<td>Develop file</td>
</tr>
<tr>
<td>Bibliographies</td>
</tr>
<tr>
<td>Remove file</td>
</tr>
</tbody>
</table>

(Vasanta and Mudhol 2000, p.137.)

Bibliographies
LIBSYS provides facility for developing bibliographies on specific subjects. The titles for the bibliography selected while searching catalogues are automatically tagged to user defined BIBLIO file. System allows updating the BIBLIO file by removing titles from there prior to generating bibliography list. On
selection of this function, the following menu appears.

<table>
<thead>
<tr>
<th>Bibliographies</th>
</tr>
</thead>
<tbody>
<tr>
<td>Searching</td>
</tr>
<tr>
<td>Update ‘Biblio’</td>
</tr>
<tr>
<td>Print list</td>
</tr>
<tr>
<td>File maintenance</td>
</tr>
</tbody>
</table>

Selective Dissemination Indexes (SDI)

On selection of this function the following menu appears.

<table>
<thead>
<tr>
<th>SDI</th>
</tr>
</thead>
<tbody>
<tr>
<td>Strategies</td>
</tr>
<tr>
<td>Interest Profile</td>
</tr>
<tr>
<td>SDI (New additions)</td>
</tr>
<tr>
<td>Develop file</td>
</tr>
<tr>
<td>SDI (File based)</td>
</tr>
<tr>
<td>Remove file</td>
</tr>
</tbody>
</table>

System allows defining various interest strategies by combing subject headings and keywords using Boolean operations ‘OR’, ‘AND’, etc. these subject related strategies can be assigned to members defining their respective interest profiles. The SDI can be generated by matching interest profiles with the titles in the ‘New additions’ file. The interest profile can also matched with the user developed list of titles selected based on accession number.

**Import / Export**

LIBSYS provides for comprehensive import/ export of bibliographic data in standard MARC as non-MARC formats. On selection of the function, the following menu appears:
The ‘Import and Export’ functions allow defining field structure in ANSI Z39 as well as fixed record ASCII files formats. The data export could either be for all the titles in the additions list or for titles selected based on accession numbers and tagged to a user defined file.

4.2.4 Serial System
Various functions related to serial system are:

a) New subscription
b) Subscription renewal
c) Invoice processing
d) Receiving issues (issue registration)
e) Claims monitoring
f) Bindery management
g) Circulation

Subscription Renewal
The process of renaming subscription of current serials involves the following functions.

- General renewal request/approval form
- Enter approved serials
- Ordering
- Update subscription details
- Status of renewed serials
- Receiving

Claims monitoring
There are following functions used for monitoring of issues:

- Schedule updates
• Reminder notices
• Received status inquire
• Display reminders

Circulation
Following functions are used to keep track of loose issues of serials tent to borrowers.
  • Borrowers records keeping
  • Checking-out
  • Checking-in

Enquires :
The enquiries of serials are based on the following :
  • Titles
  • Vendors
  • Budget heads
  • Checked-out loose issues
  • Miscellaneous

Reports :
Various reports generated by the system have been listed out here. There are following serials based reports:
  • Alphabetic list of serials
  • List of current serials
  • Serials by special issues
  • List of duplicate issues
  • List of missing/overdue issues

Forms/Notices :
• There are following notices generated:
  • Approval form
  • Subscription order form
  • Payment requisition form
  • Cheque delivery notice
  • Bindery order

Checks-out :
• borrower wise
• serial wise
Miscellaneous:

Other serials related reports include:

- Vendors directory
- Recent arrivals
- Bill register
- Binding register
- Specimen request
- Location wise serial
- Bound volumes

Records Keeping:

- Serials details
- Update loose issues
- Update history status
- Vendor/Publisher record
- Budget heads
- Currencies
- Exchange rates
- Budget updates
- Serial language
- Serial types
- Types of bindery
- Subscription modes
- Text updates

System set-up:

There is facility to define the default values of the following which is taken automatically whenever not entered:

- Vendor ID
- Currency
- Budget head
- Discount
- Subscription mode
- Mode of delivery
• Approval authority
• Overdue grace period
• Reminders interval
• Issue period

**House-keeping:**
- Producing receipt file
- Remove invoice record

( Saxena and Srivastava 1998, pp. 14-17)

4.3 SANJAY

( THE NISSAT SPONSORED LIBRARY MANAGEMENT SOFTWARE)

4.3.1 Introduction:

Today we have quite a large number of software packages specifically designed for library automation. The features, capabilities, the platform in which it can work, cost, maintenance support, training facilities etc. of these packages vary. And hence the choice often becomes rather difficult. If the cost factor is given due weightage, one’s choice is likely to be in favor of ‘Sanjay’, a package developed by a team of experts with the support of the National Information System for Science And Technology (NISSAT), India. But then it becomes necessary to be aware of the various housekeeping and information retrieval facilities available in the software and also its limitations.

Kashyap (1989, pp.111-123) stated that CDS/ISIS is basically meant for database management and therefore can be effectively used for storage and retrieval of bibliographic information in a library. In order to handle library housekeeping operations such as acquisition, circulation control and serials control, it has to be augmented with other suitable programmes. From version 2-3 onwards the CDS/ISIS has the facility to interface programs written in Pascal language as per requirement. This provision was found adequate to develop an integrated package suitable for performing the various routine operation in library. Attempts have been made to develop program for circulation, acquisition control etc. using this provision. The NISSAT awarded a project to Desidoc, Defence Scientific Information and Documentation Centre, for developing appropriate modules in Pascal for the library house-keeping operations. Accordingly, modules were developed for operations such as acquisition, control, catalogue sorting and printing, circulation control and serial
control. Technology Bhavan library, of the Ministry of Science and Technology, Government of India was taken as the model while formulating the procedures and practices. The CDS/ISIS package augmented with the modules prepared for the various housekeeping operations was named ‘Sanjay’, may be after Sanjay, the minister of Dhrtarashtra. The main role that Sanjay of Mahabharatha has played is that, remaining in the palace, with a devine inward eye he could see all the events in the battle field and narrate them to Dhrtarashtra. The first version of Sanjay was released in 1992 and was distributed to selected libraries in the country free of charge and performance was assessed. Lacunae reported by the users were rectified and the version 2, incorporating additional provision and was released subsequently. The latest one today available is the version 2.0 and it can be had from any regional centre of NISSAT along with the manual at a cost of Rs 1500oo/o . It is an interactive and menu driven packages and permits instant access to information from multiple databases which is essential for carrying out functions in acquisition, circulation control and serial control. It is more user friendly in the sense that it provides predefined display formats and print worksheets.

### 4.3.2 Hardware Requirements

The minimum specification of the hardware needed to run ‘Sanjay’ is as follows:

- PC-XT or PC-AT or a compatible equipment with
  - IBM RAM (Minimum)
  - Mb hard disk
  - Mb floppy disk drive
  - Monochrome or colour video
  - Printer
  - MS-DOS operating system ver. 3.2 or above.

### 4.3.3 System Features of SANJAY

In order to have data security and to provide access to the required files on a selective basis, Sanjay has been organized into two modules namely user module and maintenance module. The user module helps library staff to carry out the routine operations like circulation control, acquisition control and serial control and assists
library users to have online access to catalogue. The maintenance module restricts the access right to a limited set of users as authorized by the data base administrator. The data bases essentially required to computerize routine operations of a library are: the book data base, member database, acquisition data base, vendor database, budget data base and serials data base.

The special features of package are:

- It is made up of a set of 70 Pascal programs and 25 special menus
- Response is faster, response time is about 1 minute for a query on 12000 documents
- More user friendly, because the CDS/ISIS menus are modified to perform more operations on a key press
- Provides effective inter linking of data bases.

4.3.4 Main Menu

The main menu of SANJAY is shown in figure I

<table>
<thead>
<tr>
<th>SANJAY Main Menu Ver. 2.0</th>
</tr>
</thead>
<tbody>
<tr>
<td>D - Acquisition Control</td>
</tr>
<tr>
<td>S - Catalog-Information retrieval service</td>
</tr>
<tr>
<td>P - Catalog-Report generation Service</td>
</tr>
<tr>
<td>A - Circulation Control</td>
</tr>
<tr>
<td>X - Exit (to MS DOS)</td>
</tr>
</tbody>
</table>

Enter Your choice-

(Kashyap M M 1989, pp. 92-107)

4.3.6 Catalogue-Information Retrieval Service

The catalogue information retrieval survey option in the main menu is used for activities related to the searching of catalogue database. It includes searching of catalogue data base, display of catalogue information and printing of searched information. Figure 3 shows the sub menu of this.

Specific search can be carried out using ISBN title, name of author, publisher, keywords and descriptors and accession number. Searching is also possible using the master file number. Another option is to examine the terms dictionary and select any specific term or combination of terms and carry out the search. After completing the search records retrieved can be seen using provision for displaying search results.
There is also provision to change the display format of records, to view the search expressions created during the current session and to save search result.

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>S</td>
<td>Specific Search</td>
</tr>
<tr>
<td>B</td>
<td>Brows Master File</td>
</tr>
<tr>
<td>A</td>
<td>Display Terms Dictionary</td>
</tr>
<tr>
<td>D</td>
<td>Display Search Result</td>
</tr>
<tr>
<td>F</td>
<td>Change Display Formal</td>
</tr>
<tr>
<td>R</td>
<td>Recall Query Formulations</td>
</tr>
<tr>
<td>P</td>
<td>Save Search Result</td>
</tr>
<tr>
<td>H</td>
<td>Help</td>
</tr>
<tr>
<td>X</td>
<td>Exit (Main Menu)</td>
</tr>
</tbody>
</table>

Figure 3. Sub. Menu of catalogue information retrieval service.

The help menu gives about 20 pages of text interactive help which indicate the various topics on which help is available. the user can select the topics whichever is applicable. Here instructions are available for browsing records, viewing terms dictionary, formulating search expression, displaying search results, executing a previous search again, changing display formats, recalling query formulation and saving search results.

**Catalogue Report Generation Service**:

Using the catalogue report generation service option, one can retrieve the holdings list sorted under author, subject, accession number etc.. The list can either be of the entire holdings or on a selective basis. While working with this option all the reports generated will be stored in SANJAY/work directory.

One attractive feature of this menu is the facility to print catalogue cards. Standard size 5” X 3” stationary should be used for this. If the user wants to have any desired format for the reports, it can be made using user defined worksheet option. figure 4 shows the sub menu in full.
4.3.7. Circulation Control

The primary functions of circulation control are charging and discharging documents, handling reservations, maintenance list of members, answering queries about issued documents, recalling documents on loan, handling overdue charges etc. to carry out these functions Sanjay has menu driven provisions in it. the option in the sub menu for circulation are shown in figure 5.

Two types of query search are possible: member queries and document queries. Member query can be made using member code, surname/name of the member, documents issued to the member, documents reserved by the member etc.
for document queries Boolean logic can effectively be used while searching. For issuing a book the system will ask for the member code and accession number of the book. While entering these, the details of the member and document will be created. Similarly, for returning a book, the system will ask for the accession number and while furnishing it the necessary information will be incorporated in the loan record. In case there is any reservation to the book, it will also print the necessary notice to the member who has reserved it. There is also provision to print reminder notices, document recall notices and no due certificates. A separate provision is there for formulating library rules, in the circulation control menu.

4.3.8. Serial Control

Serial control is in fact the most complicated function in a library. Serial exhibit a lot of complexities such as change in periodicity and frequency, change of sponsoring body, change of title, splitting, merging, suspension of publication, publication of special issues and supplements etc. A module for serial control, therefore, has to incorporate suitable provisions to handle the problems arising out of these complexities. In SANJAY a separate module is given in figure 6.

Order Process:

The sub menu for order process is as follows:

- **D** Data Entry
- **S** Search
- **R** Report
- **M** Maintenance
- **X** Exit (Main Menu)

Data entry option is for adding new entry such as vendor details, bills details and currency rate.

The search option enables searches on order process and budget details such as total budget, commitments, total expenditure and balance available. The present
status of a particular journal can also be ascertained through this menu. Report option is to generate orders, reminders, status report of all journals etc. In the sub Menu for maintenance, option is given to download from serial database, merge to serial monitoring and initialize for a new financial year. The option to initialize for every year, accepts new budget amount for the new year. The package assumes that budget amount is a onetime allocation.

Serial Monitoring:

The sub menu for serial monitoring is as given below:

| E | Data entry |
| R | Report     |
| S | Searches   |
| X | Exit (main menu) |

(Saxena and Srivastava 1998, pp.16-17)

The main function of this is entry of new data, modification etc. The main menu of this module is as given:

| C | Select a database for maintenance |
| E | Data entry and updating |
| I | Inverted file service |
| D | Database initialization |
| M | Database back up service |
| X | Exit (to MSDOS) |

This module has provision to safeguard data against accidental losses or sabotage attempts. The database manager will be responsible for the activities connected with online catalogue such as entry of new records, modification of record, updating inverted files and back up of the database at regular intervals.

The activities connected with circulation control such as enrollment of new members, deletion of membership records and the work related to acquisition such as modification of vendor and budget databases, deletion of vendors, updating etc. can be taken care of by this module. There is provision for separate databases in this module for acquisition, budget, catalogue, members, vendors bill aid.
4.3.9 Limitation of the Package

SANJAY has been developed using the version 2.3 of the CDS/ISIS as the basis. This version had a number of limitations; the major one is that it will not work in a network environment. Accordingly, the available version of Sanjay too does not work in a network system. A Permanent machinery does not seem to exit to look after the package and to rectify the limitations reported by users and to effect timely revisions. The manual should also be made more user friendly.

(Vasanta and Mudhol 2000, pp. 168-179.)

4.4 LIBMAN LIBRARY MANAGEMENT PACKAGE

LIBMAN is a versatile, user friendly package designed for in small and medium libraries. The number of books / periodicals and number of members it can handle is limited only by the capacity of the storage media. There is a two level access to library information - a restricted one for members an unrestricted one for the librarians. LIBMAN is a package which is useful for the efficient functioning of libraries. It is completely menu driven with relevant support for task completion. The package is supported with complete standard documentation including how to use package and test examples.

Functional Features

a) LIBMAN is menu-driven package, selection of various phases is through menus after which the necessary task details are presented.

b) Built in installation facility for customizing for a specific user need.

c) Automatic retrieval of data files that may occur due to power failure.

d) Can handle about 60000 books/periodicals.

e) Two level access to library information.

f) Up-to-date information on status of any books/periodicals/members of the library is available online.

g) Facilities for keeping complete catalogue of books/periodicals (books data bank) and report generation.

h) Facilities for keeping complete details of members (membership data bank) and report generation.

i) Ease of additions and deletions to the books / periodicals banks and to the membership bank.
j) Loan register facility.
k) List of overdue books/periodicals can be generated at any instant for reminders and for other processing.

1. 
   Enquiries based on:
   ISBN/Periodical No.,
   accession No.,
   Title
   Author
   Subject
   Combination of the above are possible

n) Branching during search

o) Boolean search based on:
   Author and subject
   Title and subject
   Two subjects

p) Cross references

q) Order processing of new books/periodicals

r) A built-in data editing facility is provided

4.5 MAITRAYEE

(LIBRARY COMPUTERIZATION AND NETWORKING SOFTWARE)

Library computerization is an age-old concept. At present a number of good package are available abroad as well as in India. Computer networking is also a well established field. However, in India, both these fields are still in a developing phase. MAITRAYEE, the software package, is an attempt to bring both these aspects on an integrated platform. It is a complete solution towards library computerization and brings the participating libraries into a network of its own kind. Commissioned by ISSAT, CMC Ltd did the complete feasibility study and came out with a well defined functional specification. Finally it was designed, coded implemented and packaged to deliver one of the most sophisticated packages to make the concept a reality.

The Philosophy Behind MAITRAYEE:

• Library computerization
• Resource Sharing
• Standardization
• Connectivity
• Modularity

At present MAITFRAYEE has been implemented in several libraries in Calcutta (CALIBNET project).

4.6 LIBRARIAN

This library management software is developed by M/S Mudra Electronics, New Delhi. This package may be utilized in the following areas, viz.

1. Receipt and issue of books.
2. Check the availability and quantity of books.
3. Search the books (Author, Title)
4. List the overdue books
5. Trace the borrower, etc.

Its features include

• Capacity to handle 5000 transactions per day.
• Accommodate 10000 members and 150000 books data
• Operates under LAN.

4.7 NIRMALS : LIBRARY MANAGEMENT SOFTWARE :

NIRMAL. Institute of computer experts, Trichi has introduced NIRMAL, a library management package. The software has 5 sub systems- acquisition control, bibliographic control, circulation control, desktop, information services and serials control.

(Vasanta and Mudhol 2000, p. 84.)

4.8 GRANTHALAYA

It is complete library automation package designed and developed in Foxpro by the Indian National scientific Documentation Centre (INSDOC), New Delhi. This package is available in MSDOS. Salient features of the package are as follows:

• Modularity: The package comprises 7 modules (data administration, query, circulation, acquisition, serials control, technical processing and library administration) designed to handle all functions of a library and information
centre, Since the package has different modules, the library can implement complete package or acquire stand-alone module(s) depending upon the needs of library to implement, and remaining modules can be implemented and integrated with the existing module(s) as and when need arises.

- Object Oriented Design: The packages has been developed based on object-oriented design which offers qualitatively superior and product.
- CCF Compatibility: The package adopts common communication format (CCF). It incorporate all mandatory fields of (CCF) which facilitate import / export of data from / to Granthalaya to / from various flat forms. Export and import of data to and from ISO:2709 and ASCII format is possible.
- Dictionary Concept: Dictionary facility is provide in the package for data elements like publishers, keywords, accompanying materials, etc.
- Powerful Query and Search Facilities: The package is provided with sophisticated tools for retrieval of information by different search parameters. Search can be conducted by using Boolean logic operators, Search terms can be types or selected through dictionaries.
- Ease of Use: The package is easy to learn and use. It provides on screen messages to help users.

INSDOC is marketing and promoting this package for library automation in India. The package has already been implemented at National Scientific Library, INSDOC, New Delhi, its UNIX version has been implemented at the Nuclear Science Centre Library, New Delhi.

(Kashyap M M 1989, pp.108-117)

4.9 SUCHIKA (VER 1.0)

SUCHIKA is an integrated software package for library automation, designed and developed during 1996 by the defence scientific information and documentation Centre (DESIDOC), Delhi for its defence science library and other libraries / technical information centres (TICs) or Defence research and development organization (DRDO), scattered all over India. The purpose of developing this software is to automate all the DRO libraries / TICs, to create and maintain a DRDO libraries holdings database and help the libraries to follow uniform standard practices. The package has been developed in C++ language in MSDOS and UNIX versions keeping in view the requirements of big and small libraries of DRDO. The package is
menu driven and user friendly. The package conforms to international standards like CCF, ISO-2709, AACR II and allow data conversion from CDS/ISIS, etc.

SUCHIKA has powerful search facilities. Search can be conducted on any field by specifying the fields or through the various indexes like author, subject, keywords, report No., patent No., etc. Query may be types or selected by using the concerned index. Boolean search operations can be used. Suchika also provides facility for free text searching. Search results can be displayed according to desired formats and after selecting the relevant records, print outs can also validation and data duplication checking. This package has been developed in modular form, such as acquisition, circulation, OPAC, serial control modules. Therefore, its implementation is quite easy. Either all the modules may be implemented at one time, or module-wise implementation can also be made depending upon the needs of library. The package (both DOS and UNIX versions) has been implemented at Defence Science Library and it is under implementation in other DRO libraries / TCIs. DESIDOC, being a government agency, has decided to offer this software package to non – DRDO libraries also at nominal price to help them in their automation.

(Vasanta,N and Mudhol,M.2000,pp.86-87.)

4.10 DEISIS

DEISIS is a fully menu driven package developed by the Delhi Library Network (DELNET). This software is basically a networking software developed on Basis plus. The features of this software are OPAC facility, provision to search by full or part of name of author, corporate body, editor, joint author, title, series etc., duplicate checking and allowing Boolean search. Delsis is having a powerful indexing technique. All DELNET databases, online Inter-Librar5r Loan facility etc are based on the Delsis. Index is generated automatically and there is online help for every operation.

4.11 DEL-DOS

This package is developed by the DELNET for DOS environment. The specially of this package is its ease of use. The MARC records of book in English as well as in other Indian languages can be created using GIST card. Salient features of the software include deletion and printing of selective range of records in MARC format and user friendly data inputting. Editing of records is very simple fast global values can be defined during worksheet design. Export / import can be done is ISO 2709 format.
4.12 DEL-WINDOWS

This is the third software developed by DELNET. As the name implies it is basically for windows 95 platform. It can generate MARC details of books published in English and other Indian languages using GIST card. Another feature of this package is that online help facility is available and data errors. OPAC facility as well as duplicate checking is also there.

4.13 ILMS

Integrated Library Management System (ILMS), in an automated library management system developed by the INFLIBNET in collaboration with DESIDOC for university libraries. The package is developed in COBOL to work on DOS/UNIX platforms. The DOS version of the package consists of six main module namely circulation, catalogue, acquisition, OPAC, reports and serial control. All these modules have further sub-modules covering most of the options and functions dealt with in the respective areas. This requires DOS Ver 5.0 or higher. ISO 2709 is taken as the base for data exchange, and efforts are on to make the OPAC module Z39.50 compatible. This package is specially suited for University Library environment. Its Windows version is called SOUL.

4.14 KRUGER LIBRARY MANAGER :

Kruger Library Management is developed by Blitz Audio Visual, Pune. This is a user friendly menu driven package, As in other packages it supports searches by author, subject, etc. It runs on PC XT / At compatibles.

(Vasanta,N and Mudhol,M.2000, p90.)

4.15 LIBRA :

This library automation package developed by M/s. 'Ivy system Ltd. Pune, provides the house keeping operations namely, acquisition, circulation and cataloguing and handles online retrieval also. This can be linked with Dialog and similar services. The package has multi-user and multilingual facilities.

4.16 LIBRARY MANAGER :

This is a library automation package developed by the System Data Control Pvt. Ltd., Bombay. The package runs in DOS environment. This package supports circulation control. Catalogue generation, card printing, serial control etc. Library Manager is a user friendly menu driven package.
4.17 LIBRIS:

LIBRIS is a library package from Frontier Information Technology Pvt. Ltd., Secundrabad. One with a title knowledge of computer can easily use this package. LIBRIS covers acquisition, circulation, serial control and help in library administration. This package supports bar coding facility as well.

4.18 LIBSOFT:

LIBSOFT is an integrated library package designed by C. O. Alex and colleagues in Thiruvananthapuram. The software runs in windows platform. It is menu driven and provides online help at every point, and therefore is very much user friendly. The package uses Microsoft Access for database design and RDBMS to avoid duplication in data entry. Data protection is ensured through passwords. Database already prepared in CDS/ISIS can be directly imported in Libsoft. The software takes care of all routine housekeeping operations and information retrieval functions of library or information centre. Different types of reports can be generated as per the requirements of the library. The search facility is very powerful and has a number of options including Boolean search and use of options including Boolean search and use of wild cards. The authors claims that it can handle more than 10,00,000 records without any problems. Y2K problem has been solved. The package is sold at a fairly reasonable cost.

(Vasanta, N and Mudhol, M. 2000, p91.)

4.19 SLIM:

System for Library and Information Management (SLIM) is a single user as well as multi user library software, developed by M/S. Algorithms, Pune, India. It is a user friendly, menu driven software, which helps to catalogue books, films, audio-video materials etc. It has five modules, namely, acquisition, circulation, serial control, cataloguing and OPAC. Acquisition module supports the entire range of activities from the time of proposal or recommendation to acquire an item, until it is finally paid and accessioned, Serial control system helps to achieve an efficient utilization of periodicals budget. OPAC offers powerful online search facilities. The scope of SLIM is very exhaustive, and a lot of attention is paid to the details of library management function and its design. Different kinds of reports can be generated using the software.

(Vasanta, N and Mudhol, M. 2000, p91.)
4.20 THRISHNA:

THRISHNA is developed by NISTADS under the contract from NISSAT. This is a CDS/ISIS version that supports data creations, storage and retrieval in major Indian language.

(Rajashekar, T. B. 1998, pp.231-237)

4.21 ARCHIVES

The library management systems. The computer solution for computerization of any library/ documentation centre, irrespective of size and type removes the drudgery of doing mundane and repetitive work and helps to keep all records and information up to date. It has facility for storage and retrieval of information, Acquisition and processing of books and periodicals. It includes feature like selective dissemination of information, circulatory and budgetary controls etc. System comes complete with microcomputer with software and also extensive user training is given to the client.

Outstanding features of ARCHIVES

a) Custom built

This package can be tailored to fit the needs of any library irrespective of the type and size. The range of its use will vary from the small in-house document unit of organization to the giant national libraries.

b) Menu driven packages

ARCHIVES is simple to learn and use. you do not have to be a librarian or a computer expert to handle it. To provide a user friendly environment, the user is guided through all procedures with simple menus and prompts.

c) Modularity

The modularity of the package ensure that each module can work independently and that the package can with your needs. Addition of further modules can be done without any modifications of existing modules.

d) Security

Multilevel security is a major advantage of this package. its password security restricts unauthorized access to the use of certain parts of the package.

e) User training:

Efficient and systematic training will be provided thus ensuring that you do not face any problem in operating the system.
f) Documentation

Documentation which comes along with system is comprehensive, properly structured and in simple language. This makes understanding of how to use the package very easy.

2. Reports from ARCHIVES

- Vendor file
- Purchase order/ Reminders
- Books on order
- Accession register
- Printed library catalogue
- Catalogue cards
- Periodical subscription orders/ reminders
- Periodical on order I
- Periodical holding
- Claims for missing issues/ remainders
- Periodical subscription
- Renewal notice
- Subscription renewal
- New acquisitions list
- Material acquired by specific period
- List of subject headings
- Member profiles
- SDI Notice
- List of library member
- Books due by date
- List of material issued to members
- Remainder for overdue books
- Notice for book held on reserve
- Circulation statistics. (Ray, Shynu and Ray 1999, pp.53-65)

4.22 ULISYS

A library of any size is basically an information system involving

a) Acquisition, circulation and maintenance of books and periodicals
b) Reference and enquire services.
The WIPRO library information system has been devised to provide the right solution for the efficient handling of all these operations of a library. This system is designed to meet the requirements of the library of a college, University, any educational institution, a research laboratory or any other enterprises. The benefits to be gained by the users of this system are:

1. Improved control over library operations. Improved management a control of the information and
2. Improved and new services for the users to prevent duplication of efforts.

(Rajashekar, T. B. 1998, pp.238-242)

4.23 UNILIB:

It is a library management software package developed by M/S Hindustan computers limited, Bangalore, for medium/large size libraries. It’s feature include:

i) It is a menu driven package.
ii) It runs under UNIX / XENIX environment.
iii) It ensures maximum productively minimum data entry requirements, efficient search query facilities.

(Kashyap M M 1989, pp.92-93)

4.24 DELMS:

Defence library management system (DELMS) is a COBOL based software package developed by defence scientific information and documentation centre (DESIDOC) for automating acquisition, circulation, serials and online catalogue. It is supported on UNIX operating system.

4.25 ILMS

Integrated Library Management System (ILMS), in an automated library management system developed by the INFLIBNET in collaboration with DESIDOC for university libraries. The package is developed in COBOL to work on DOS/UNIX platforms. The DOS version of the package consists of six main module namely circulation, catalogue, acquisition, OPAC, reports and serial control. All these modules have further sub-modules covering most of the options and functions dealt with in the respective areas. This requires DOS Ver 5.0 or higher. ISO 2709 is taken as the base for data exchange, and efforts are on to make the OPAC module Z39.50 compatible. This package is specially suited for University Library environment. Its Windows version is called SOUL.

(Vasanta and Mudhol 2000, p.90)
4.26 TROODON:

Troodon, an integrated software for library automation is developed by Comtek Services Pvt. Ltd., New Delhi. This is a fully integrated multi user software designed to run on a variety of platforms, Troodon 1.0 developed on DOS and UNIX platform and Troodon 2.0 is proted and developed on windows 95 under client server architecture. Based on the feedback from users, many new features have been incorporated. It uses CCF to facilitate resource sharing among libraries. There are five modules in this package. They are OPAC modules in this package. They are OPAC module, Database maintenance module, circulation module, acquisition control and serial control modules. The OPAC module allows searching by words, phrase, with right truncation, previous search set or by Boolean, statement. The database maintenance uses CCF to store bibliographic data and is based on ISO 2709. The report generation facility is also there. The package has an extremely user friendly interface with very good search facilities and has online help and validation during data input. The hardware requirement for a single user system is an Intel based Pentium / 486 DX with 16 MB RAM, 256 KB Cache, 1 GB HDD and for a multi user system LAN with Ethernet, Novel Network or Windows/ NT server having minimum Petium /486 DX with 32 MB RAM, 512 KB Cache, ‘/z GB HDD 32 bit Ethernet card etc.

(Rajashekar, T. B.1998, pp.246-248)

4.27 CDS/ISIS

The mini-micro CDS/ISIS [Computerized Documentation System / Integrated Set of Information System is a menu driven generalized information, storage and retrieval system designed specifically for the computerized management of structured non numeric text oriented database. CDS/ISIS is able to manipulate an unlimited number of databases each of which may consist of completely different data elements. CDS/ISIS is a entirely different software package used by all over the world.

(Sehgal and Behi 1996, pp. 143-145)

Until the popularization of CDS/ISIS, the major hurdle in computerization of information retrieval was difficulty in obtaining a suitable s/w package Packages although available were vefy few and costly. There a handful of libraries which embarked on library automation by developing their own programs based on popular
program compilers like dBase, Pascal, c, C++, PL/I programming. In most of the cases these programs were not developed by persons trained in librarianship. Naturally these programs could not comply with the true nature of information management. Further the system developed in one library was entirely different from that developed in another library. Therefore it was almost impossible to exchange database between libraries and merge data files of different databases.

CDS/ISIS overcomes all these problems. It is program developed and updated on the basis of requirements ascertained from a group of expert libraries drawn from different geographical areas. It satisfies the professions requirements and available to all libraries free of cost. In India this program is made available to institutional users through the National information system for science and technology (NISSAT).

(Vasanta and Mudhol 2000, p.145)

System Functions :

CDS/ISIS is a more sophisticated and versatile package which enables following functions:

- Definition of data bases with user selected data
- Entering new records into defined data bases.
- Editing, modifying, deletion, addition of records in the databases.
- Creation and maintenance of fast access inverted and index files from specified data elements.
- Selection of search terms from the inverted/ indexed file and/ by keying -in to form a search terms through sophisticated search language.
- Retrieving of records on the basis of search expressions formed using Boolean expressions of search -tenns.
- Displaying of records according to user defined formats.
- Sorting of records in any desired sequence.
- Printing partial or full catalogued and/ or indexes from the data bases.
- It allows to develop specialized applications using cds/isis pascal programming Facility.

(Kashyap M M 1989,pp.72-117)
Application of computer in libraries is becoming very common these days. This has made enormous changes in the operations of the libraries in our country. CDS/ISIS is the most popular library automation software package in our country as per the statistics available. One of the reasons for this popularity is its availability at a nominal price compared to other software packages.

The level of software support is the basic difference between CDS/ISIS and the commercially available packages, while Unesco can not match the software support provided by the higher prices software companies in Europe and North America, its support is much higher than for software produced in the rest of the world. Hence the lower level of support in comparison to North American Commercial software is available either free of change or at a nominal price and it operates on microcomputers. The possibility of designing complex databases and the powerful data retrieval procedures make it a very effective databases management software. The provision for variable length fields in contrast to the fixed length fields which is used in other DBMS packages is an added attraction of CDS/ISIS. This feature along with the provision for repeatable fields and sub fields best suit the requirements of a bibliographic databases. Hence this software is finding more and more users in the field of librarianship and information science all over the world.

(Sehgal and Behi 1996, pp. 143-145)

4.28 KOHA

Koha is the most advanced open-source Integrated Library System in use today by hundreds of libraries worldwide. The development of Koha is steered by a growing number of libraries throughout the world. These libraries, either on their own, or collaborating in groups, sponsor the development of new features to support their workflows. Koha's impressive feature set continues to evolve and expand to meet the needs of its sponsoring libraries. Everyone may not use the same features. This freedom to pick and choose from features, through the administration of system preferences, offers librarians the opportunity to tailor their Koha instance to match their specific workflow needs. Since the original implementation in 1999, Koha functionality has been adopted by thousands of libraries world wide, each adding features and functions, deepening the
capability of the system. With the 3.0 release in 2005, and the integration of the powerful Zebra indexing engine, Koha became a viable, scalable solution for libraries of all kinds. Koha is built on this foundation. With its advanced feature set, Koha is the most functionally advanced open source ILS on the market today.

- Easy-to-use circulation policies, strong patron management, intuitive navigation, and extensive permissions for staff accounts.
- Parent-child relationship for patron records, as well as a 'copy' patron feature to quickly add families.
- A Clubs and Services feature that allows libraries to manage reading groups, book clubs, and other other community outreach programs. This feature is easily managed by library staff.
- Extensive support for holds, including an option to 'suspend' and 'reactivate' a hold, an option to place holds from a patron's OPAC account, an option to allow staff to re-organize the holds queue, and an option to place holds at either the title or item level.
- Enhanced matching policy rules for the 001 and 035 tags, allowing libraries to update older records with a newer version.
- Libraries to 'undo' entire import batches from the catalog in a single click, rather than having to delete on a one-by-one basis.
- SIP2 configuration for a wide variety of vendors and their products, including ITG, 3M, Envision Ware, Talking Tech, Overdrive, Tech Logic, and Librarica. Koha also works with Ez Proxy as a dual authentication source for remote database access.
- OPAC, staff, administrative features and self-checkout interfaces are all based on standards-compliant World Wide Web technologies--XHTML, CSS and Javascript--making Koha a completely Web-based solution.
- Support for industry standards and guidelines - Z39.50, SRU, and SIP2 XML-tagged MARC record storage provide quick access to data
- Fully developed ILS functionality - including Course Reserves, Acquisitions, Serials Control, etc.
- Support for third party Debt Collect, Telephone Notices, etc.
New Features

- SIP2 differentiation between item-level and title-level holds
- Enhance SIP2 for ITG communication to pass messages regarding 'Lost Item' status
- Enhance SIP2 to pass message regarding shelving location
- Improvements to holds management within a bibliographic display
- Implement Talking Tech customer 43/44 message pair
- Retain Last borrower regardless of patron reading history retention.
- Expand creation of authority records created upon bibliographic import
- Provide local customization of zebra relevancy rankings

(www.koha.org/Visited17aug2012)

4.29 E-Granthalaya:

E-Granthalaya is a library automation software from NIC, Ministry of Communications and Information Technology, Government of India. The software has been designed by a team of experts from software as well as Library and Information Science discipline. Using this software the libraries can automate in-house activities as well as user services. The software can be implemented either in stand-alone or in client-server mode where database and WebOPAC are installed on the server PC while the data entry program is installed on client PCs. The software provides LAN/Web based data entry solutions for a cluster of libraries where a centralized/ Common database can be created with Union Catalog output. The software provides Web OAPC interface to publish the library catalog over Internet/Intranet. The software runs on Windows platform Only, UNICODE Compliant, thus, supports data entry in local language.

e-Granthalaya was started as an in-house project at 'Karnataka State Centre of NIC, Bangalore' and first version of the software was designed for the Public Libraries in the State. Later, NIC HQs 'Library and Information Services Division' took over the designing of the software where library professionals were involved in the designing process and, thus, improved the software with enhanced user interface and simplify the work-flow of library functions so that it can suit all kinds of libraries. Following table shows the release of various versions of the software:
Components:
e-Granthalaya contains following components, some of these are installed in
the Server PC while rest of these are installed in the Client PCs:
2. Web OPAC - on Server PC
3. Data entry program - on client PCs

Features:
- Runs on Windows Platform Only (Win XP/vista/7/Server 2003/2008)
- Provides Local/LAN/WAN based Data Entry Solution
- UNICODE Compliant, supports data entry in local language Module - Wise
  Permission to the software Users.
- Work-flow as per Indian Libraries
- Retro-Conversion as well as Full Cataloging Modes of Data Entry
- Authority Files/ Master tables for Authors, Publishers, Subjects, etc
- Multi-Vol, Multi-Copy and Child-Parent Relationship pattern
- Download Catalog Records from Internet
- Z39.50 Client Search Built-in
- Exhaustive Reports for Print
- Export Records in CSV/Text File/MARC 21/MARC XML/ISO:2709/MS
  ACCES/EXCEL formats
- Merger databases of eG3 into Single Database
- Common/Centralized Database for N Number of libraries, minimize data
  entry
- Main/Branch Libraries Acquisition/Cataloging
- Print Accession Register
- Search Module built-in with basic/advance/boolean parameters
- Library Statistics Reports
- CAS/SDI Services and Documentation Bulletin
- Updated Regularly with enhanced Features
- Compact/Summary/Detailed Reports Option
- Generate Bibliography
- Data Entry Statistics Built-In

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• News Clipping Services Built-in
• Digital Library integration with uploading / downloading of pdf/html, etc documents
• Micro-Documents Manager (Articles/Chapter Indexing)
• SERIALS Control System for Subscription with Auto-Generate Schedule
• Budget Modules with Bill Register Generation, manages Multi-Budget Head
• Import Data from any structured Source
• Well exhaustive Web Based OPAC Interface with separate Membership module

System Requirements :
For Stand-Alone Mode (All the Components to be installed on a Single PC) :
Hardware: Pentium or above with backup device, Min 1 GB RAM, 40GB HDD
OS: Windows XP(SP2)/Vista/win 7 DBMS: MS SQL Server 2005/2008 (Express Ed) – FREE Connectivity: LAN/Internet Connectivity

For Client-Server Mode:
Server PC:
Hardware: High-End Server / Rack Server with 4GB RAM, 80GB HDD
RDBMS: MS SQL Server 2008 R2 (Standard Edition)
Connectivity: LAN/Internet Connectivity
Barcode Printer (Any Model/Make) with Barcode Reader

(eгранthalaya.nic.in/at 17,aug,2012.)

4.30 NGL :
This program is for libraries which are planning to automate their libraries in just 4 days. This is time-bound program. The duration of this program is 32 hours (4 - days). And it is very simple. There are schedules for this program. If you strictly follow the schedule you will fully automate your library in just 4 days. You will be visually observing your users (and management) satisfaction and praise for library services.

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Features:

- Functional modules are completely web based.
- Uses Java Web Start Technology.
- Compatibility - Complies with international metadata and interoperability standards: MARC-21, MARC-XML, z39.50, SRU/W, OAI-PMH
- Uses chiefly open source components Scalable, manageable and efficient OS independent - Windows and Linux flavours available z39.50 Client for federated searching
- Internationalized application (I18N)
- Unicode 4.0 complaint
- Easily extensible to support other languages
- Data entry, storage, retrieval in any (Unicode 3.0) language
- RFID integration
- Networking – Hierarchical and Distributed networks
- Automated email/instant messaging integrated into different functions of the software
- Form letters are configurable and use XML-based OpenOffice templates
- Extensive use of set up parameters enabling easy configuration of the software to suit specific needs, e.g., in defining patron privileges
- Supports multi-user and multiple security levels
- Allows digital attachments to metadata

Technical Processing (Cataloging)

- Import Bibliographic data
- From other libraries' OPACs
- Primary or Original Cataloging
- Provides 3 different templates for Cataloging: Simple, General and MARC21 Templates
- Compliant to MARC21 for Bibliographic, Authority and Holdings Data
- Supports all material types (By MARC21)
- Open Archive support (OAI-PMH protocol compliant)
- Attach digital content along with catalog record
- Customizable MARC21 templates and Search indexes
• Search catalog-Search catalog through various system defined Indexes
• Library can also define custom indexes
• Cross walks available meta data standards like MODS 3.0 and Dublin Core
• Technical Processing of items received through Acquisitions and Serials Management

Circulation
• Check out (Issues)
• Check in (Returns)
• Reserve items
• Recall items on loan
• Renew items on loan
• Inter Library Loans management
• Process items lost
• Weed out process
• Binding management
• Automatic overdue notices and reminder for renewals
• Emails and SMS facility

Acquisitions
• Request process (suggestions from users)
• Process On-approvals from Vendors
• Raise Orders
• Receive orders (Invoice and Item processing)
• Accession received items
• Process payments
• Budget management
• Record payment details
• Claims for items not supplied
• Solicited and Unsolicited gift processing
• Quotation process (Request for quotations, Generate comparative statements)
Serials management:

- Process subscription list
- Raise firm order
- Receive Invoice
- Register (Check-in) serial issues (manages even Combined issues, Supplement issues, Special issues, out-of-turn receipts, Indexes, Delayed issues, No longer available issues)
- Binding Management
- Preparation of Logical lists and Physical lists
- Raising binding orders
- Accessioning Bound Volumes
- Auto-claim (Reminder) generation for 'Not received' issues

Web OPAC:

- Various types of searches
- Free text (Google like search), Basic, Advanced, Expert
- Reserve items on line and Cancel reservations on line
- Renew items on line
- View circulation transactions transacted and user privileges by the user on line
- Top stories (View headlines through RSS feeds configured)
- Define SDI (Selective Dissemination of Information) profile
- List of new arrivals
- Suggest new books to be acquired on line
- View special collections in the library.
- Supports Vufind OPAC system (http://www.vufind.org)

(www.verussolutions.biz/web/visited17aug2012)
REFERENCES:


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