LIBRARY MANAGEMENT SYSTEM

PROJECT REPORT

Submitted in practical fulfillment of the requirements
For the award of Degree of
M.Sc.[Applied Science] Software Engineering

Submitted by
SHERINA PRASAD
0037S0109

Under the guidance of

External Guide	Internal Guide
Mr.B.Ravindran Pillai	**Miss.Shantha**
LBS Centre	**Department of CSE**

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
KUMAMAGURU COLLEGE OF TECHNOLOGY

(Affiliated to Bharathiar University)

COIMBATORE-641006

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BONAFIED CERTIFICATE

This is a to certify this is the Bonafide Project Record Work done by SHERINA PRASAD , Reg.NO. 0037S0109 in Partial fulfillment for the award of Degree of MSc [AAPLIED SCIENCE SOFTWARE ENGINEERING] , during the academic year 2003-2004.

Prof & HOD   Guide

SUBMISSION

This Project entitled "LIBRARY MANAGEMENT" is submitted for the VII semester of MSc [APPLIED SCIENCE SOFTWARE ENGINEERING] for Bharathiar University Project Viva-voce examinations held on ...27.09.03...

Internal Examinar   **External Examinar**

LBS CENTRE FOR
SCIENCE & TECHNOLOGY
(A Government of Kerala Undertaking)
Extra Police Road, Nandavanam, Thiruvananthapuram-695 033, Kerala.
Phone: 2324396, 2324148, 2324364   Fax: 0471-2337055
email:lbscst@md2.vsnl.net.in. web: lbskerala.com

Date :

Ref:

CERTIFICATE

This is to certificate that Miss. Sherina Prasad ; MSc. Software Engineering student of   Kumaraguru College Of Technology, Coimbatore has successfully completed his project entitled " Library Management System " at our Institution, during the period May 2003 to October 2003 in partial fulfillment of the requirements for the award of MSc. Software Engineering Degree of Bharathiar University under the guidance of Mr. Raveedran Pillai. B, Deputy Director, LBS Centre for Science and Technology.

We tested her work at every stage and are glad to certify that she has developed this functional software in this centre.

DEPUTY DIRECTOR

ACKNOWLEDGEMENT

ACKNOWLEDGEMENT

SYNOPSIS

SYNOPSIS

The project entitled "LIBRARY MANAGEMENT" is a software package developed for the computerization of library at **LBS CENTRE FOR SCIENCE AND TECHNOLOGY, TRIVANDRUM**.

The library management is completely menu driven and is easy to operate. The main form consists of seven menu items. From the main menu we can access different pull down menus for different operations.

The menu item 'Circulation' deals with the circulation procedures of LBS library manily issuing, renewal and returning of books. This package is capable of adding newly purchased books and also fresh members. Call members are automatically generated. 'Deletion" involves replacement of books and with drawal of membership.

The librarian can satisfy queries of the user regarding books. A Facility for listing of books and periodicals according to the options chosen by the user is provided. Provisions for changing due date, fine etc are possible.

This package provides very useful means to make easy the manual operations of the library with the aid of computer. This project is efficiently implemented using the software Visual Basic as front end and Oracle as back end. Visual Basic is a very efficient software for application purposes.

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CONTENTS

APPENDIX

1. Data flow diagrams
2. Screen layout(I/p,o/p)
3. Reports

REFERENCES

INTRODUCTION

INTRODUCTION

1.1 ABOUT ORGANIZATION

The LBS Centre for Science and Technology (LBSCS &T), Trivandrum the premier institute of computer training and constancy, registered under the Travancore-Cochin Literary , Scientific and Charitable Societies Registration Act XII of 1955 was established by Government of Kerala in 1976.

The Centre was started by the Government of Kerala as an Autonomous body with the main objectives that the Centre would act as a link between the industries and technical institutions so as to benefit society through their mutual interactions.

Highly qualified personnel holding PostGraduate and Doctoral Degrees with several years of experience constitute the hard core of our staff structure.

1.1.1 COMPANY PROFILE:

A Governing Body and an Executive Committee administer the Centre. The Chief Minister, Government of Kerala is the Chairman of the Governing Body and the Minister for Education is the Vice-Chairman. The Principal Secretary for Higher Education is the Chairman of the Executive Committee and the Director of Technical Education is its Vice-Chairman.

The Director of the Centre is the Member Secretary of both the bodies. He is the Executive head of the Centre. There are Joint Directors, Deputy Directors, Assistant Directors, Administrative Officer, Finance Officer and other subordinate staff to help the Director in administration and financial matters.

LBS Centre is a recognized research study Centre of Kerala University leading to the award of Ph.D. A few scholars are already making use of the facilities of the Centre for their research programs under the University of Kerala and one person has already obtained Ph.D.

LIBRARY:

A library is a growing Organisation. Library house keeping is a process of book ordering, statastics and circulatory control. Eighty percent of the Librarian time id spends in these houses keeping process.

OBJECTIVE:

The main objective of the library is to minimize the user satisfaction and minimizing the time loss to the user in searching for a book and waiting for book.

By computerising the library. The librarian time can be saved. By increasing internal day to day work. This will leads to increase the service and efficiency.

Among the house keeping function of a Librarian. The circulatory control an important role whose purpose is to make a Library into an efficient place for acquiring, storing and dissemination knowledge and information.

These are the processes that can be automated to increase the service of the Library. Which is provided to its members.

1.1.2 ABOUT PROJECT

This software package named "Library Management" is for computerizing the present procedures to give sufficient information required for the LBS
Library, a department of LBS Centre for Science and Technology, Trivandrum.

The LBS Library is a department of the LBS Centre for Science and Technology, Trivandrum. It comprises about 4000 books for the benefit of students. The beneficiaries include about 1000 members also. The major process involved are the circulation and references of books.

The new system is designed to replace the existing manual system in which data is stored and retrieved using registers and files, which is a tedious and time - consuming process. The aim of the new system is to process the entire job with minimum effort and time. Another objective of the system is to produce timely and accurate reports. The system is designed to do all the operation with the help of a single personal computer.

The whole system has seven main menus. They are,

1. Issuing
2. Returning
3. Renewal
4. Reservation
5. Membership
6. Book Details
7. Security

Circulation of books

There are two types of members viz staff and student members. For having a membership in the library, a student has to pay a deposit of Rs.250/- as caution deposit to compensate the loss incurred by him.

Circulation includes issuing, renewal, and returning of books and periodicals.

Issuing

This is dealing with issuing of books. When a request for issue arises, the system will accept the call number of the document and the member number.Then the system will validate the document number and member number and collects the details about the books and member from their respective files. The system will calculate the due date and dispaly it on the screen. Then the details of the issued book, member and due are written in the issue file.

Renewal

Renewal facility is allowed only for books. For renewal, the system requires call number as input. The system will validate and collect the details of the book from issue file.

Returning

When a member wants to return a book, the system accepts the call number of the book. After validating the call number, system will check whether the due date is over or not. If it is over, the corresponding fine is calculated and displayed. It will then delete the corresponding record from the issue file and update the member and the document file.

Reservation

Books are preserved for reservation. All students are allowed to reserve to any of the books. The accessions number of the book and name of student are entered in to the software kept for this purpose.

Books Details

The system will display a data screen for entering the book details like title, author, publisher name and accession number. The system automatically classifies the book and provides unique call number.

Membership

The system accepts membership number as input and checks whether he has taken any book to pay any dues. The member is deleted only if he has cleared all the dues.

Security

Managers or users with defined privileges shall only use the account management system. Users who have librarian ID shall only use the check-in, checkout and recall system. Users who have librarian ID shall generate The Patron information report. The books sign out report or managers or users with defined privileges shall only generate book purchase report. Database update data shall be committed to the database only after the managers have approved.

SYSTEM STUDY

SYSTEM STUDY AND PROBLEM FORMULATION

2.1 EXISTING SYSTEM

ISSUE:

As soon as reader comes with the book, he hands over the book and borrows ticket to the counter staff. The counter staff checks the validity of the membership and also whether the book can be issue or not.(i.e)Examines the Physical condition of the book, the collection to which the book belongs etc. After ascertaining the issueabality of the book, he/she checks the book cards, and write the membership number and due date on yellow card and write the membership number on the date slip and puts his initial on the date label. Then he writes the membership number and main class number in the statistics register. The yellow card is filled alphabetically by the name of the Author. The book along with borrower's ticket is returned to the borrower.

The Library Assistant at the Circulation desk verifies the accession number and other details of the book. After identifying the borrower. The Counter Staff takes out. The book card from the Book Pocket and inserts the borrowers ticket and stamps the due date on the date label and hands over the book to reader along with an exit pass.

Then the membership number is recorded in the register and the borrower ticket which is coupled with Book Card is field in the charging tray being the due date stamp and membership number. The vigilance staff at the exit checks out the date stamp and convince himself and make a tick mark on the date label which signifies that the book has been duly issued. The vigilance staff collects the exit pass and allows the borrowers to go out with book.

RETURN:

When the reader returns the book, the Counter Staff after ascertaining the due date and membership number from the date label takes out the concerned Book Card from the charging tray and process the due date on the date label, checks whether the book is in good condition, and if so inserts the Book card in the Book Pocket and returns the borrower's ticket to the member and places the book along with other returned books. If there is any reservation. The book is kept separately. If the book is overdue. The

assistant calculates the overdue charges and collects the money from the borrower before returning the borrowers ticket. The books can be renewed for another term is there is no reservation.

RESERVATION OF BOOKS:

New books are released every Monday, which will be displayed at the entrance. The released books will be available for one week later and the readers can reserve the new books. Reservation cards are available at the Counter.

2.2 LIMITATIONS OF EXISTING SYSTEM:

Existing system procedure is very poor and information gathered through existing system is limited, due to manually processed by the library staff according to the use of requirement.

In the manual system the books are not readily accessible. It is very difficult to find out whether a particular book is available or not. During stock verification each book is taken from the rack and marking. The book load involved is another of the existing system. Another points include:

1.Arrangement of the books of similar categories cannot be done.

2.The number of copies of a particular book cannot be determined.

3.It cannot be verified easily whether a particular book is available or not.

4.The accessibility of accurate data from the past records were difficult because of the
   Voluminous work involved in maintaining the information.

2.3PROPOSED SYSTEM:

The proposed system is mainly designed to eliminate the main disadvantage of the existing system. The time spend by the user by waiting in the Que. is eliminated.

The proposed system consists of password security. So the authorized persons can only operate the software. The option is also given to change the password.

The option is given to search a book and reserve a book. Issue a book and to return a book. To view the books of a particular Author etc. the Data Entry option for the New books if also given.

The member options such as adding new members, deleting a member List of members is also given.

The settings are given for the fine and Days. By selecting the fine, the fine will be involved in the project. Otherwise, the Fine will not be displayed.

The cost of maintaining a number of registers can be minimized.

2.3 ADVANTAGES OF PROPOSED SYSTEM:

Nowadays, the books and the readers increased. But the number of library staffs
remains the same. So it has a heavy work to search a book and maintaining house
hold functions. With the help of the computers this workload can be decreased.

Library is a growing organism. The books will be increasing day to day. Difficult to update the information due to the voluminous increase and rise in the degree of specialization involved. Computers are having speed and a lot of space to store. The need for resource sharing has switched to automation.

♦ Offers flexibility
♦ Speeds up processing
♦ Create accuracy, efficiency, consistency and improved work control.
♦ Reduces repetitive clerical work.
♦ Permits case checking and updating

SYSTEM SPECIFICATION

The main objective of this document is to provide the reader with the Software Requirements Specification for the software project entitled **"LIBRARY MANAGEMENT"**. The purpose of this document is to convey information about the application's requirements, both functional and non-functional, to the reader. This document provides (a) a description of the environment in which the application is expected to operate, (b) a definition of the application's capabilities, and (c) a specification of the application's functional and nonfunctional requirements.

The document is intended to serve several groups of audiences:

- First, it is anticipated that the SRS will be used by the **application designers.** Designers will use the information recorded here as the basis for creating the application's design.

- Second, the **client** for the project, the library manager in our case, is expected to review this document. The SRS will serve to establish a basis for agreement between the client and development team about the functionality to be provided by the application.

- Third, the **application maintainers** will review the document to clarity their understanding of what the application does.

- Fourth, **test planners** will use this document to derive test plans and test cases.

- Finally, the **project manager** will use this document during project planning and monitoring.

Hardware Specification:

- Pentium 233 MHz or above with 32MB Ram(64 recommended).
- Color monitor with supports 800X600 screen resolution BAR code reader.
- Ethernet LAN connection with UTP (Unshielded Twisted pair) with HUB.

3.2 Software Specification:

To store details of library management information system, large number of database file are required. For that the software is database system and Graphical User Interface based front end is required for easy operations.And Oracle as back end.Suitbale software is VB. Data control is a powerful tool that gives a complete control of data base. This project is written in Vb.

◆ Visual Basic 6:

Based on basic language learning time is minimal because visual effect of basic language is considered to be one of the last known and simplest languages available.

Programming objects are the applications forms and objects are list boxes, drop down controls, check boxes, scroll boxes,etc.

VB provides developmental environment in which working with such objects and events become structured process.

The tools provided by VB van help you reducing development time. VB is gaining popularity as a prototyping tool because it is possible to develop application faster using tool available.

VB support client architecture, which can share every thing for data processing disturbing the responsibility for process and data integrity to the software and hardware of both client and the server.

◆ Oracle 8:

VB can also modify and query data present database. It can't create a database. To amend this defect VB share the Oracle engine. This software on a normal DBMS allows user to create database.

Its advantage is fully command based.So we can create table very easily and it can be connected with VB through ADODC connection.

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3.3 Features of Software:

The Library Book System is used for Library Manager, Librarian, and Library User. The system is self-contained. However, it is possible to exchange data with other system through external interface if required.
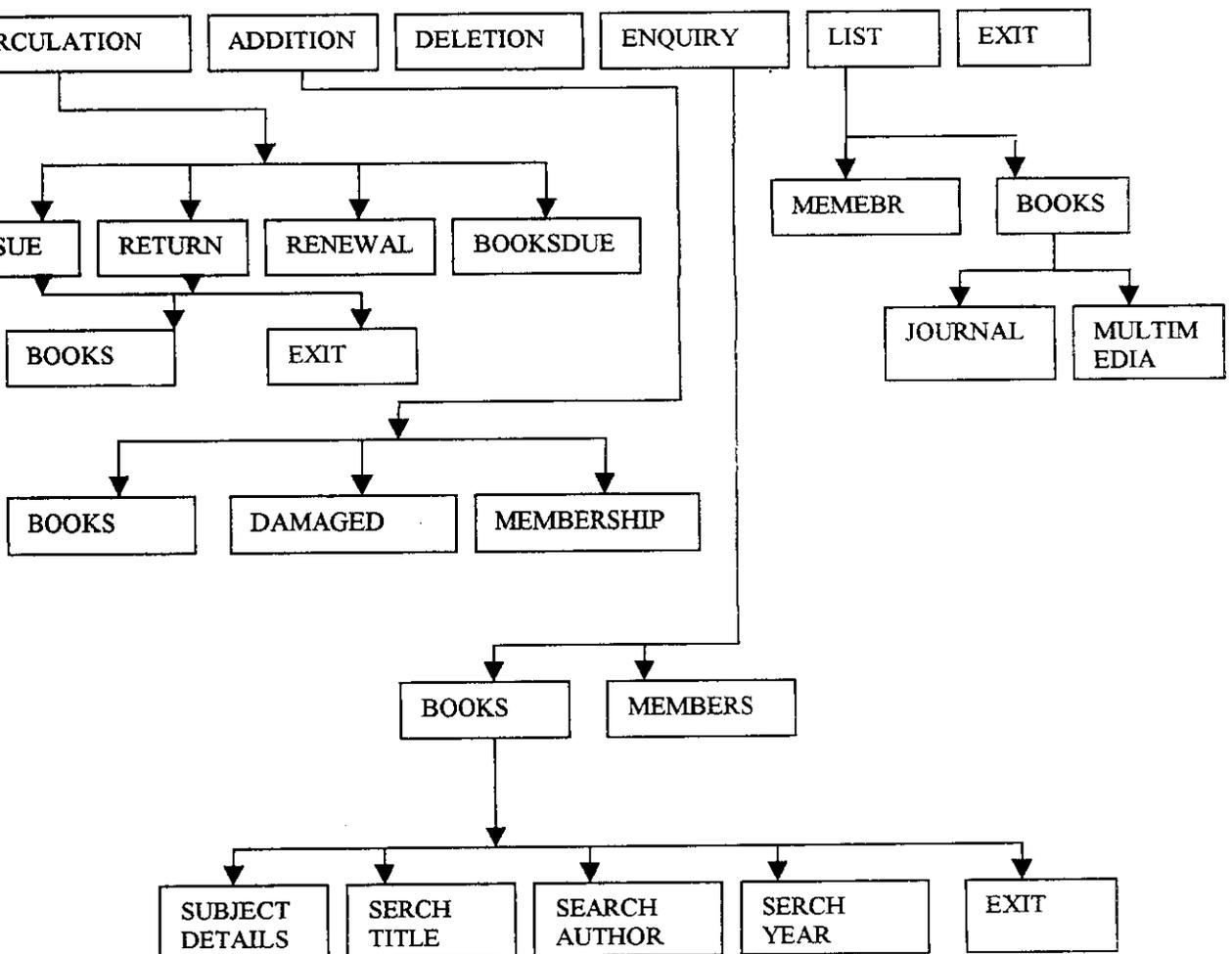
Security is important to library operation. Library user is allowed to use the Library Book System only for searching book records. User should never be able to break into the system and to perform any modification. The time consumed for every operation can be minimized. The human load can be reduced and the computation will be faster. It is very easy to do the enrollment of member and books in the library and the daily transaction of books.

SYSTEM DESIGN

SYSTEM DESIGN AND DEVELOPMENT

4.1 System:

This software package provides facility for manipulating the procedures in the library. Here the registers are replaced by database files. Details of all the books are stored in a file.

4.2 Module design:

RCULATION	ADDITION	DELETION	ENQUIRY	LIST	EXIT

SUE	RETURN	RENEWAL	BOOKSDUE

BOOKS	EXIT

MEMEBR	BOOKS

JOURNAL	MULTIM EDIA

BOOKS	DAMAGED	MEMBERSHIP

BOOKS	MEMBERS

SUBJECT DETAILS	SERCH TITLE	SEARCH AUTHOR	SERCH YEAR	EXIT

4.3 Database design:

1.Create table book(title varchar2(35),
author varchar2(35),
publisher varchar(25),
series varchar2(10),
subject varchar2(25),
accno varchar2(8), year number(4),
callno varchar2(8), edition varchar2(5),
pages number(4), isbn varchar2(8),
daterelease date,
rem varchar2(25),price number(8,2),
billno number(6),contents varchar2(60),
bookstatus varchar2(5),booktype varchar2(10),
resstatus varchar2(10), supplier varchar2(20),reserve varchar2(10))

2.create table journal(issn varchar2(6),
title varchar2(25),publisher varchar2(25),
lastvolume varchar2(5),subject varchar2(15),
accno varchar2(8),price number(8,2),
type varchar2(25),periodicity date,
nation varchar2(25),place varchar2(25),
accmode varchar2(10),renewal varchar2(10))

3.create table multimedia
(accno varchar2(8),title varchar2(25),subject varchar2(25),
producer varchar2(25),language varchar2(15),
duration number(3),details varchar2(15),
colour varchar2(15),format varchar2(15))

4. create table membership(memberno number(7),
name varchar2(25),address varchar2(30),
dob date, phone number(12),
totaldue number(6,2), entrydate date,
category varchar2(25),branch varchar2(20),
sex varchar2(6),email varchar2(30),
expdate date,borrow number(3),
reserve number(3),rem varchar2(25));

5.create table issue
(issueno number(10),accno varchar2(8),

```
memberno number(7),idate date, rdate date,
title varchar2(25),author varchar2(25),
subject varchar2(25),return varchar2(10), rdate2 date);
```

6.create table issue1
```
(issueno number(10),accno varchar2(8),
memberno number(7),idate date, rdate date,
title varchar2(25),author varchar2(25),
subject varchar2(25),return varchar2(10), rdate2 date);
```

7.create table return
```
(issueno number(10),accno varchar2(8),
memberno number(7),idate date, rdate date,
title varchar2(25),author varchar2(25),
subject varchar2(25));
```

8. create table renewal
```
(issueno number(10),accno varchar2(8),
memberno number(7),idate date, rdate1 date,
title varchar2(25),author varchar2(25),
subject varchar2(25),rdate2 date,renewdate date);
```

9. create table reservation
```
(resno number(10),priority number(5),
accno varchar2(8), memberno number(7),idate date,
rdate date,title varchar2(25),author varchar2(25),
subject varchar2(25),status varchar2(10));
```

10. create table reservation1
```
(resno number(10),priority number(5),
accno varchar2(8), memberno number(7),idate date,
rdate date,title varchar2(25),author varchar2(25),
subject varchar2(25),status varchar2(10));
```

11. create table log
```
(username varchar2(15),pwd varchar2(15));
```

4.4. Input design:

The proposed system contains following inputs

1.Book details
  1.Multimedia
  2.Journal
2.Member details

Book details deals with the new entry of books. And this form has to connected with books table through ADODC connection with Oracle.This input form contains Accession number, Title, Author, series, year etc. From this form we can see list of all books, we can search a book author wise, title wise, year wise etc. We can update book details and can delete also.

Member details deals with the new entry of member details. Types of members are Faculty, student, staff etc. This input design also connected with Oracle with ADODC connection. This form has member table.this contains all details about members, like, name, address, email-address, phone number etc.

4.5. Output design:

The proposed system contains data reports are,

1.Book details
2.Member details
3.Fine details

Book report contains details about the books, which are available in the library. This report contains book title name, author name, publisher name, price of the book etc.

Member report contains details about the members, like staff, students, faculty etc.

Fine report deals with fine details, members should issue the book before 15 days. Otherwise fine will be calculated.

4.6 Building the software:

This software has seven modules. They are,

1.Issue
2.Return
3.Renewal
4.Reservation
5.Membership
6.Book details
7.Security

4.1.Issue

In this module we are explaining about verification and updation of member details and book details.

In verification we have two master tables, membership table and book table. In book verification we have issuing and reservation.

In updation we have three tables, member, book and issue.

This is dealing with issuing of books. When a request for issue arises, the system will accept the call number of the document and the member number.Then the system will validate the document number and member number and collects the details about the books and member from their respective files. The system will calculate the due date and dispaly it on the screen. Then the details of the issued book, member and due are written in the issue file.

4.2 Return

In this module we are explaining about calculation of fine , remittance of fine. And also about updation of member, books, issue and for returning.

When a member wants to return a book, the system accepts the call number of the book. After validating the call number, system will check whether the due date is over or not. If it is over, the corresponding fine is

calculated and displayed. It will then delete the corresponding record from the issue file and update the member and the document file.

4.3 Renewal

In this module we are explaining about verification of booking.

Renewal facility is allowed only for books. For renewal, the system requires call number as input. The system will validate and collect the details of the book from issue file.

4.4 Reservation

In this module we are verifying reservation booking, providing priority number and notifying booking information.

Books are preserved for reservation. All students are allowed to reserve to any of the books. The accessions number of the book and name of student are entered in to the software kept for this purpose.

4.5 Membership

In this module we have addition, deletion ,list and editing of member details.

The system accepts membership number as input and checks whether he has taken any book to pay any dues. The member is deleted only if he has cleared all the dues.

.4.6 Book details

In this module two types of books we have.Journal and multimedia. In this module also we can add, delete , find and list books.

The system will display a data screen for entering the book details like title, author, publisher name and accession number. The system automatically classifies the book and provides unique call number.

4.7 Security

Managers or users with defined privileges shall only use the account management system. Users who have librarian ID shall only use the check-in, checkout and recall system.

TESTING AND IMPLEMENTATION

This project is executed successfully and tested using various queries. This project works successfully for all queries.

System implementation is the process of making the designed system fully operational. People, computer equipment and procedures must be equipment and procedures must be coordinated to function properly and smoothly. At least conceptual requirements of the new system are to transform into physical reality.

After this project is checked for various inputs it is finally implemented successfully.

CONCLUSION

CONCLUSION

Computerization of library services would help the organization to manage library operations effectively and there by avoiding duplication of efforts. This package can be implemented for this purpose. It is completely menu driven and user friendly.
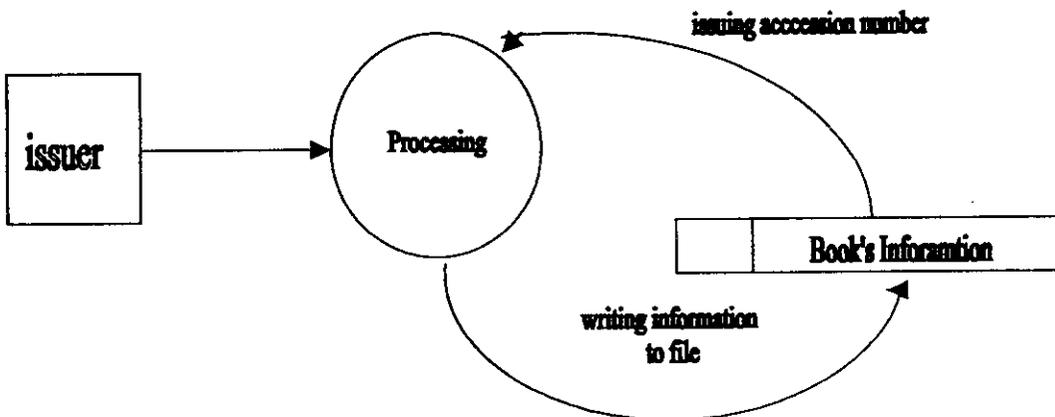
The main program is so developed that we can number options in the menu. For example, we can add options for accounts, book selection etc. Classification and generation of call numbers for the books are also provided in the package.

Our prime object of the project is to make it much more user friendly for which we have used user friendly software package. The software package has the capability to store retrieve data in the database analyzing and viewing of data is very simple have used user friendly software package. The software package has the capability to store retrieve data in the database analyzing and viewing of data is very simple.
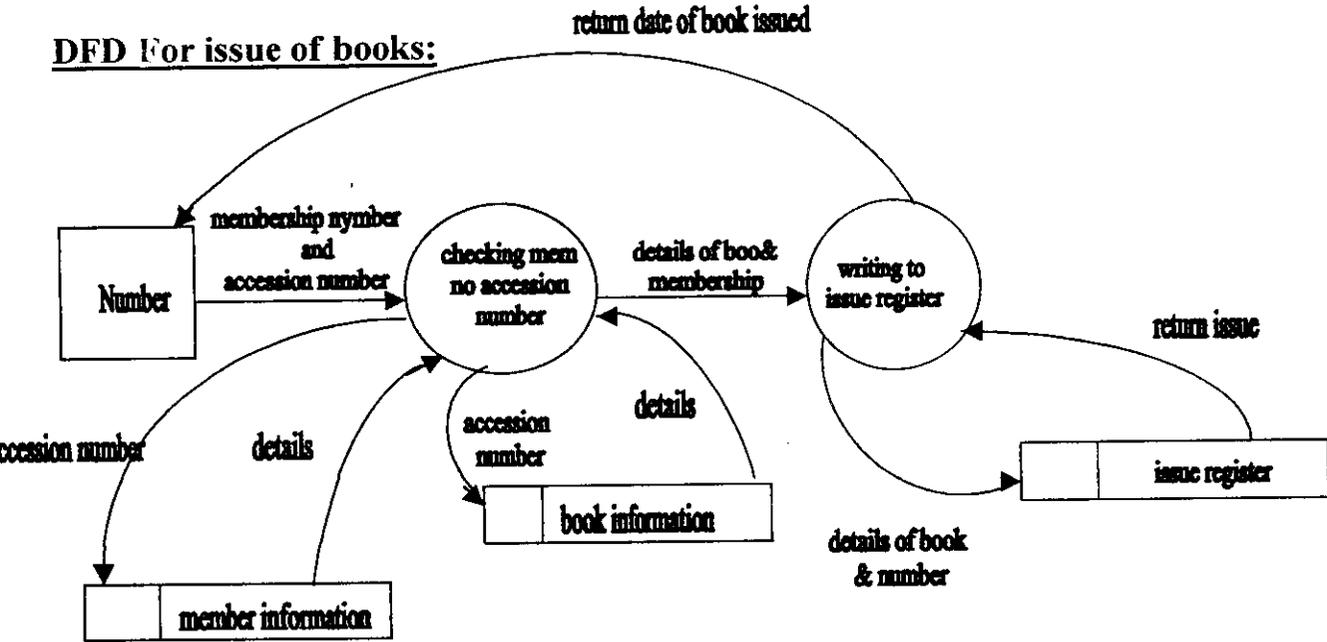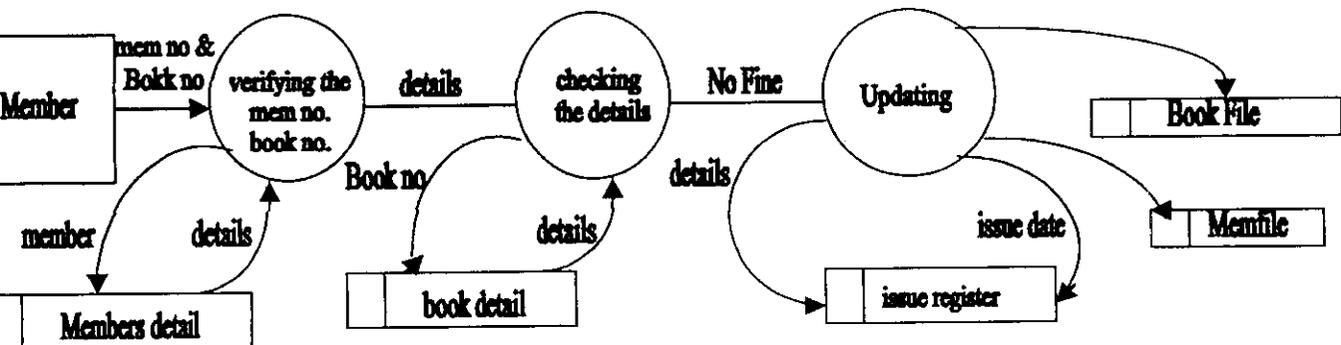
APPENDIX

1. DATAFLOW DIAGARMS:

checking — book information

reply after processing

password — Password checking — if correct — Processing — processing

reply

reply

checking

checking — member informantion

reply

checking — issue register

password not
correct inform the user

DFD For New entry of book:

issuing accession number

issuer — Processing

Book's Information

writing information
to file
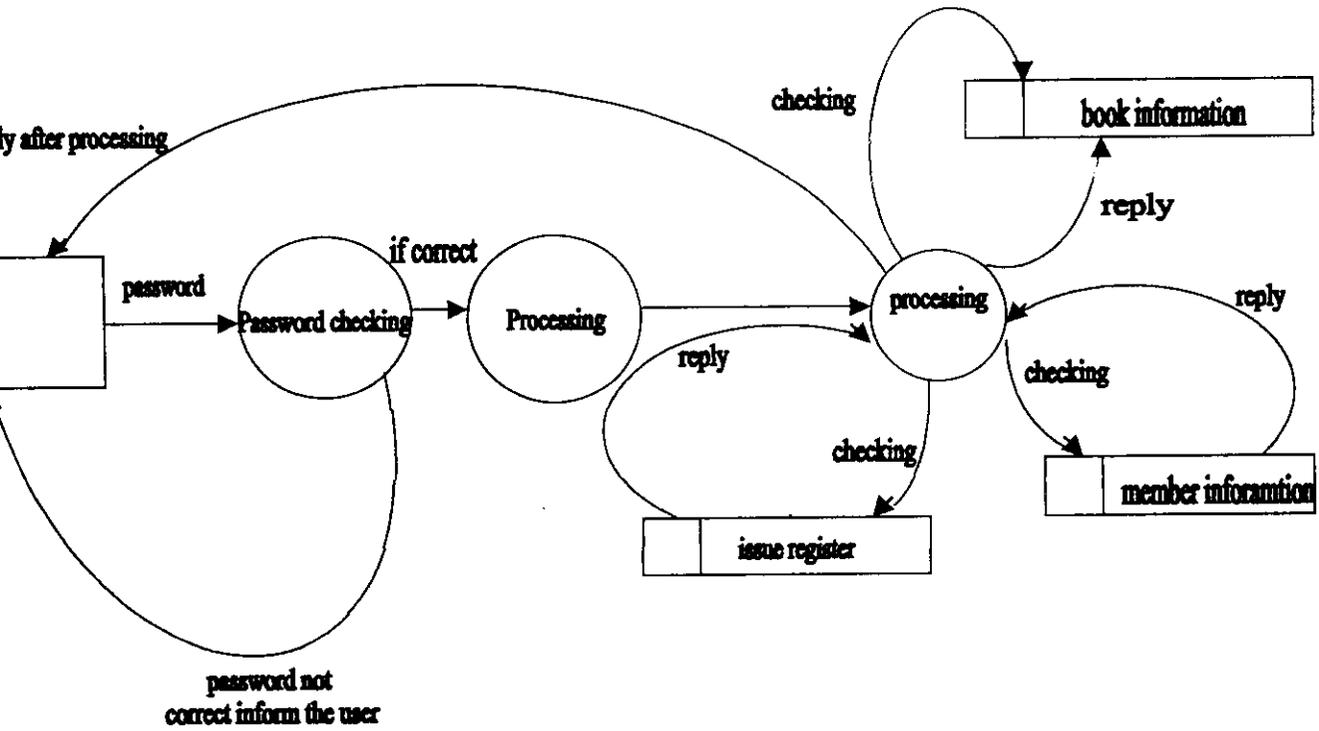
DFD For issue of books:

return date of book issued

membership number
and
accession number

Number

checking mem
no accession
number

details of book&
membership

writing to
issue register

return issue

accession number

details

accession
number

details

details of book
& number

issue register

book information

member information

Return Of Book:

Member

mem no &
Bokk no

verifying the
mem no.
book no.

details

checking
the details

No Fine

Updating

Book File

Book no

member

details

details

details

issue date

Memfile

Members detail

book detail

issue register

Circulation:

mem code

member

book issued

mem code

return process

mem code

wrong

issue process

lib member

not available

memcode book

delete

access code

book code

Check for reservation

stock

verify the book

mem code

reser vation

book issue

delete

display

process book issue

update

SCREEN LAYOUTS(I/P,O/P)

1.BOOK DETAILS:

2.BOOKS LIST:

3.SEARCHING OF BOOKS:

4.JOURNAL DETAILS:

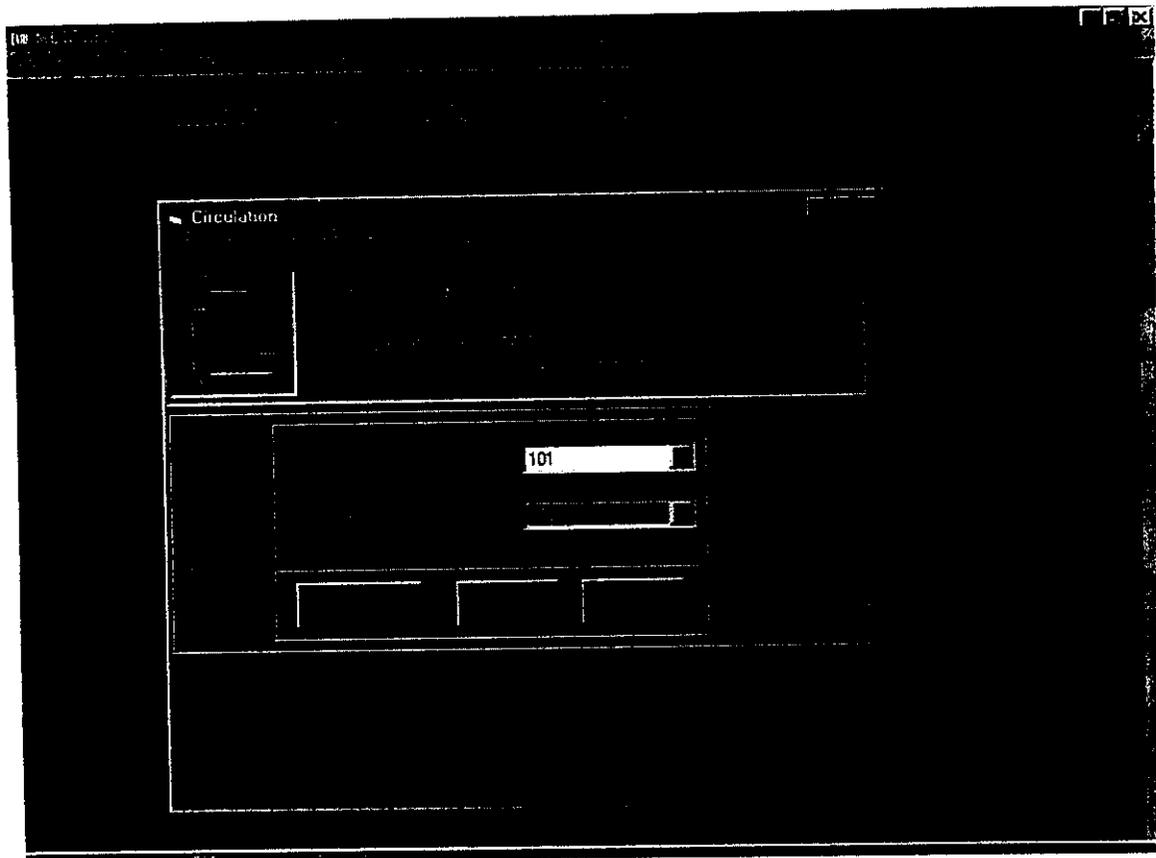|	
122	General
Digital Fundamentals	3/13/03
BPB	Indian
first	Delhi
computer	765
7465	
432	

5.JOURNAL LIST:
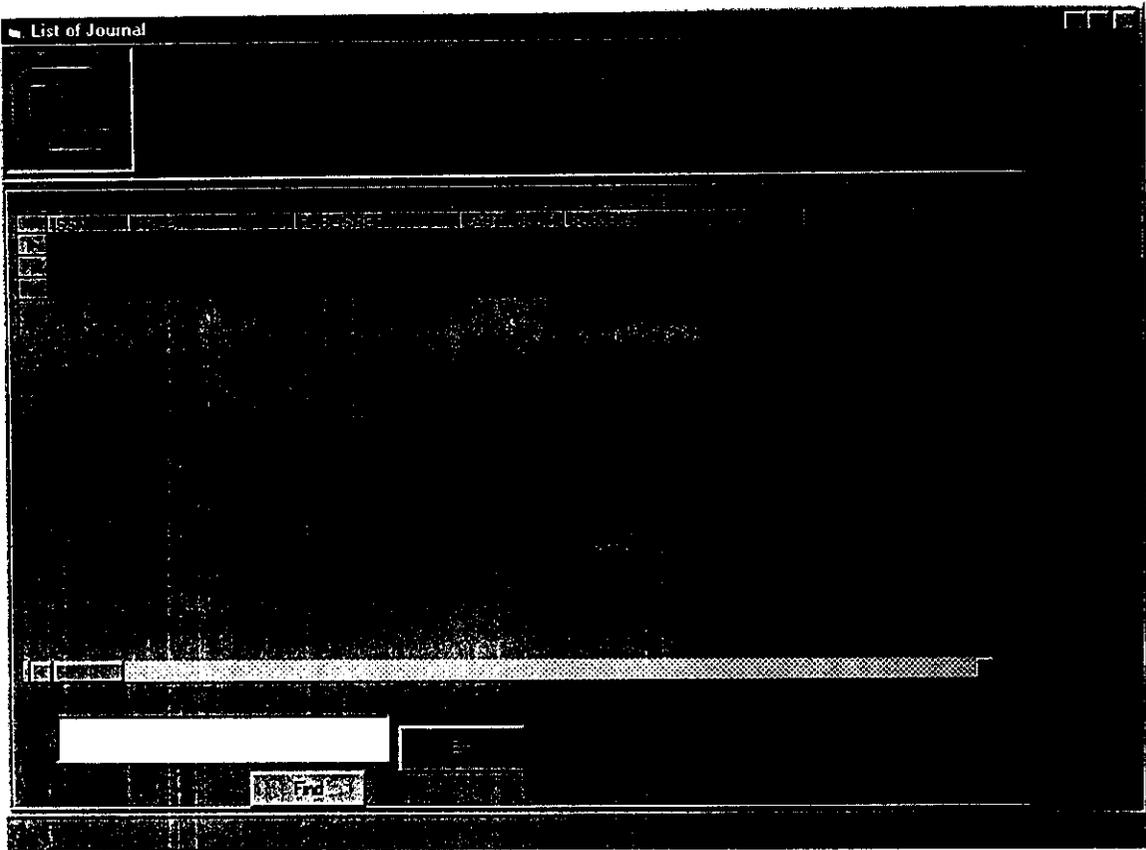
6.LIST OF MULTIMEDIA:
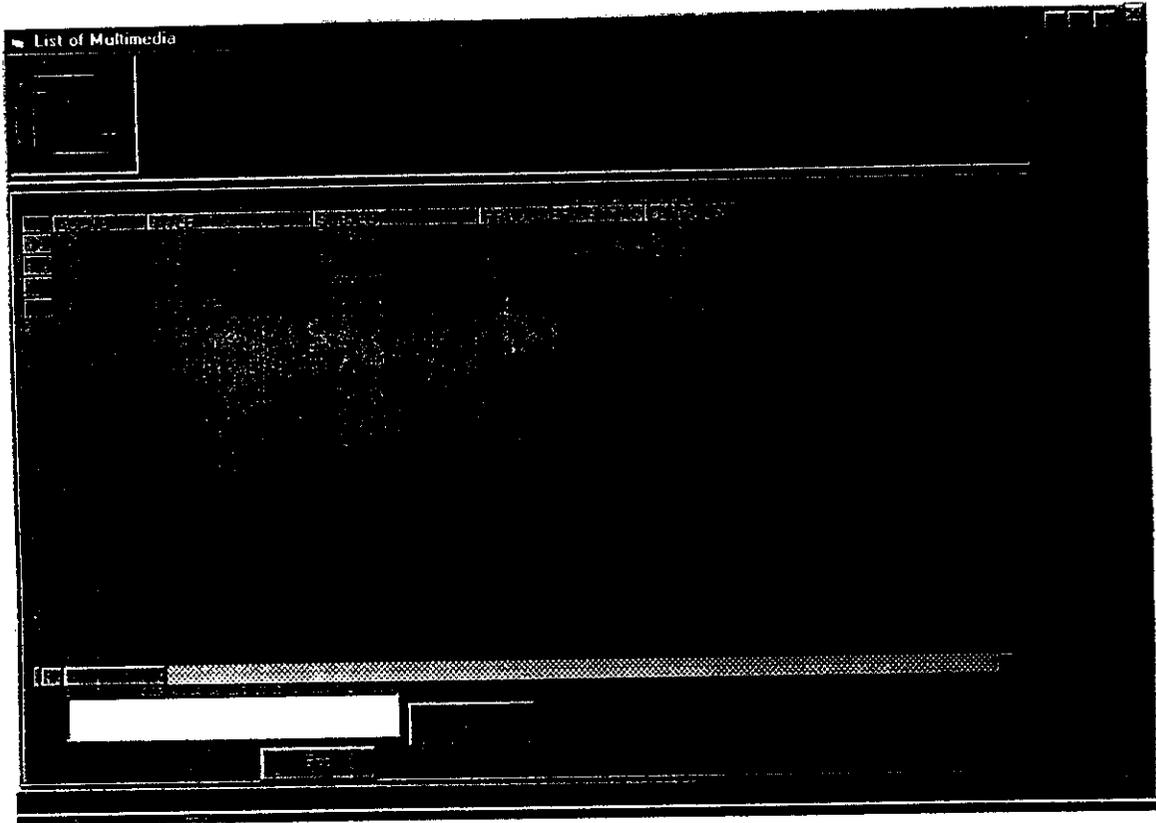
7. BOOK ISSUE:

8.BOOK RETURN:
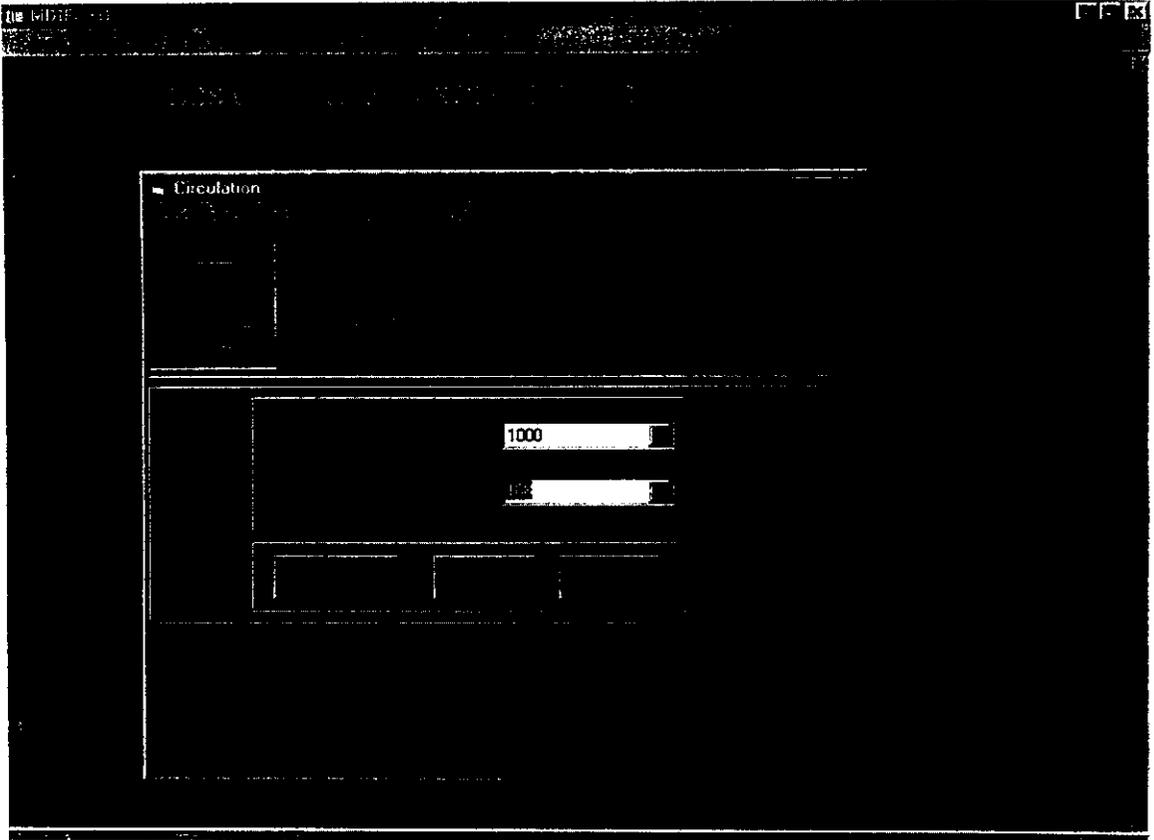
9.BOOK RENEWAL:
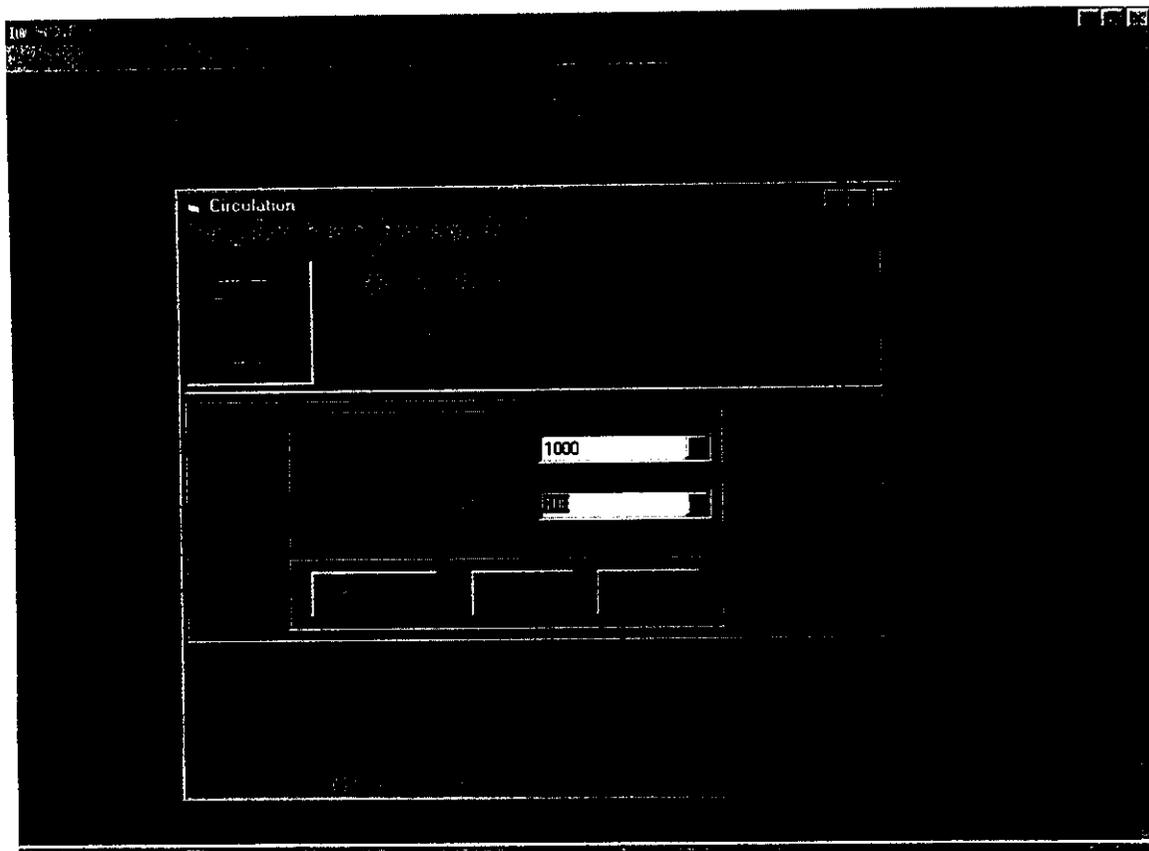
10. BOOK RESERVATION:

11.BOOK FINE:
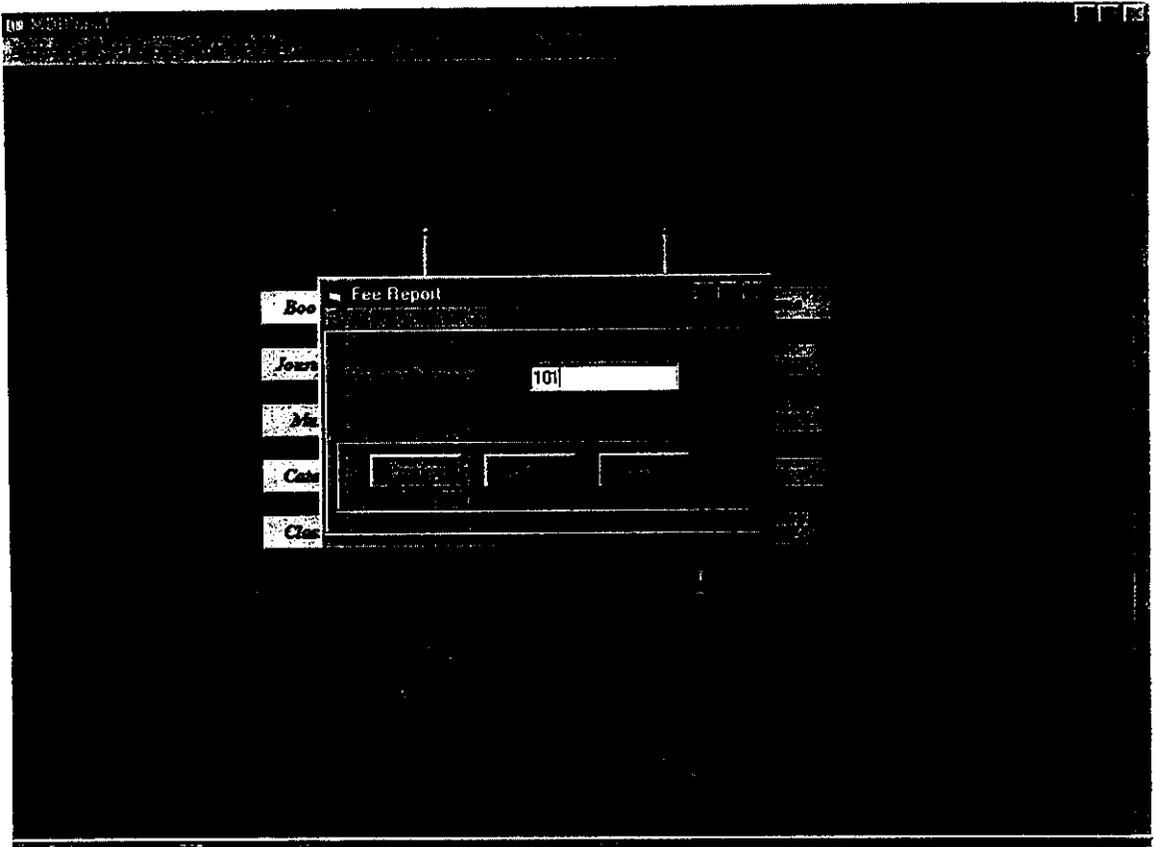
12.LOGIN:

Create New User:
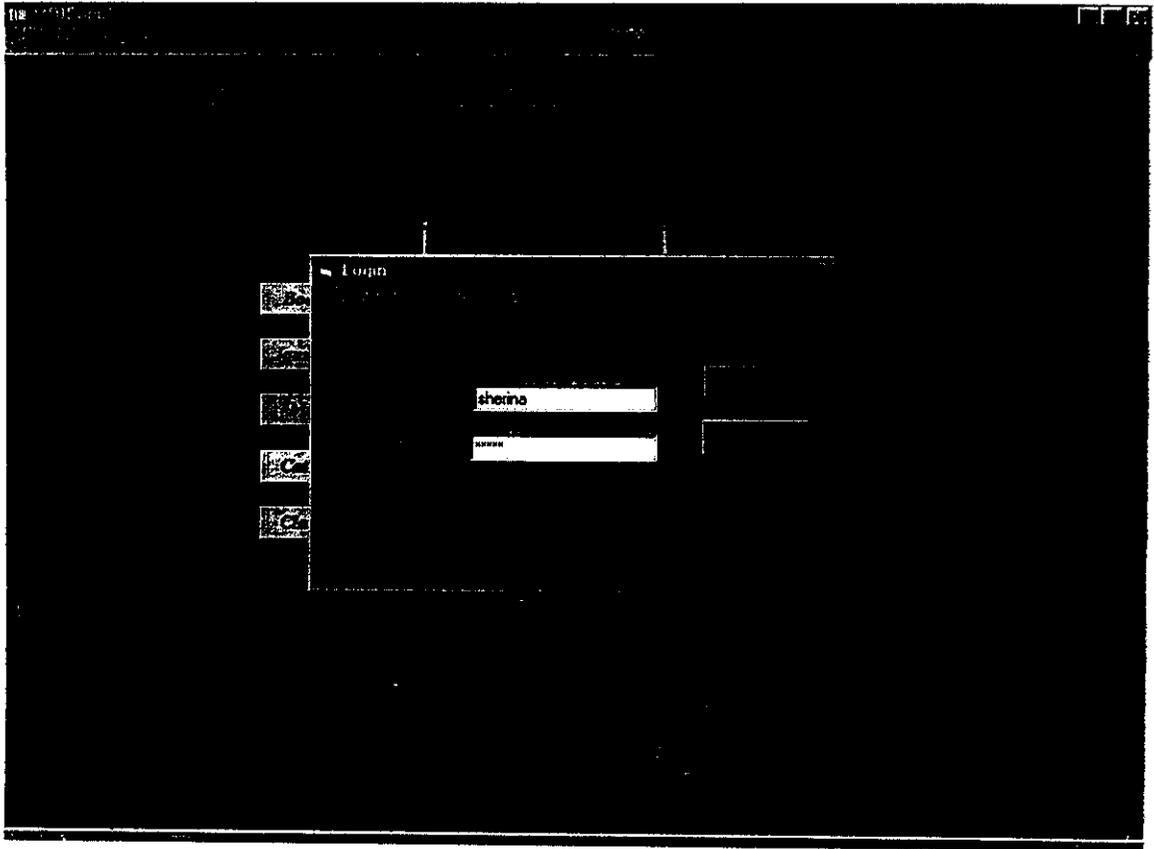
Edit User:

Delete User:

1. BOOK DETAILS REPORT:

LBS CENTRE FOR SCIENCE AND TECHNOLOGY

LIBRARY MANAGEMENT SYSTEM

Book Details

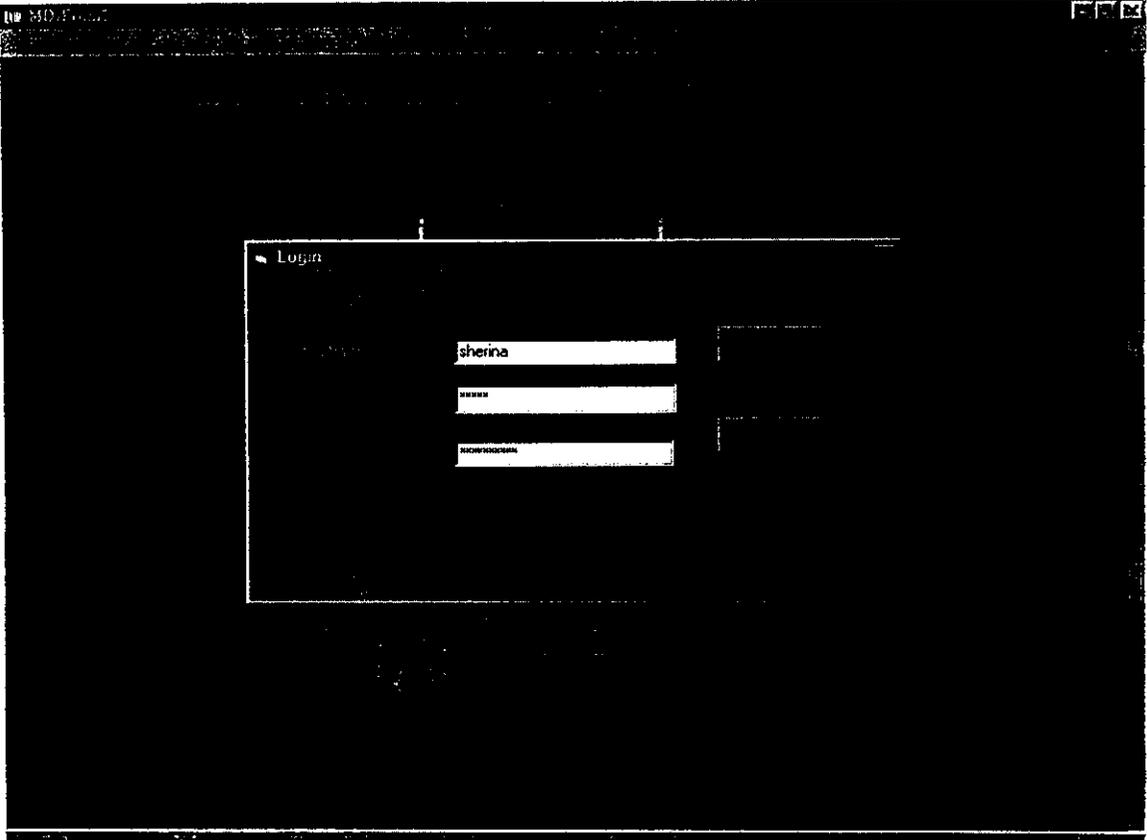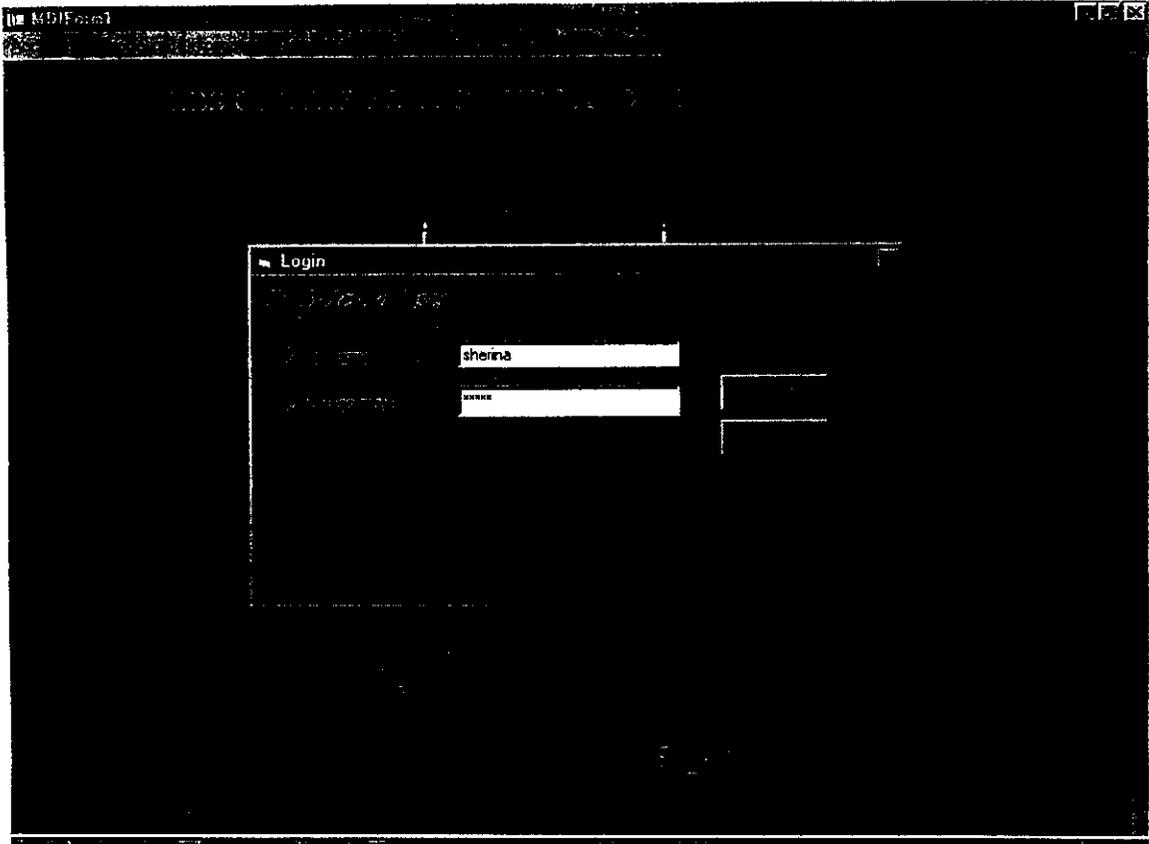| ACCNO:	TITLE:	AUTHOR:	PUBLISHER:	SUBJECT:	EDITION:	PAGES:	ISBN:	YEAR:	PRICE:	STATUS:	TYPE:	RESSTA
100	computer	korth	tata	computer	third	200	16534	2000	250	Out	General	YES
101	digital electronics	Moris Mano	tata mc.grew hill	eletronics	third	250	5643	2003	200	Out	General	Yes
102	software	press man	bnp	computer	third	200	64241	2002	300	Out	General	YES
103	Digital Electronics	Moris Mano	sbt	electronics	third	200	1276	2002	250	Out	General	YES
104	VB And Oracle	Steve Brown	qwt	computer		220	7123	2003	260	Out	General	Yes
105	Let Us C	Yashvant Kanetka	BPB	Programming	third	658	667	1995	135	In	General	No
106	Visual basic	Gulzar.N.Elavia,Su	BPB	Programming	third	314	176	1995	180	Out	General	No
107	Mastering window	Robert Covert	BPB	Computer	first	964	1654	1993	250	In	Referenc	No
108	Visual C++	Ivan Bayross	BPB	Computer		407	154	1994	225	Out	General	Yes
110	Visual	Alex Leavers	BPB	Computer	third	407	6734	1994	225	In	Referenc	Yes

Grand Total   10

2.MEMBERSHIP REPORT:

100%

LBS CENTRE FOR SCIENCE AND TECHNOLOGY

LIBRARY MANAGEMENT SYSTEM

Member Details

MEMBERNO:	NAME:	ADDRESS:	PHONE:	TOTALDUE:	ENTRYDATE:	CATEGORY:	BRANCH:	BORROW:	RESERVE:
101	Geetha	Nedumagadu Trivandrum	321167	0	9/2/03	Guest		2	3
1000	Sherina	P.O.Palayad Kanuur	345115	0	9/2/03	Student	PGDCA	3	4
103	Dhanya	G.H.Road	325115	15	9/2/03	Student		2	4
104	Darsana	V.R.Road Tellicherry	328761	33	9/2/03	Faculty		1	1

Grand Total 4