



Library Management System

Project Report

Submitted By

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*In partial fulfilment of the requirements for the Award of the Degree of
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**DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING
KUMARAGURU COLLEGE OF TECHNOLOGY
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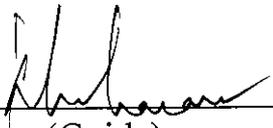
Certificate

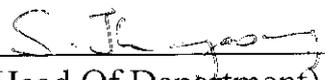
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University, coimbatore - 46 during the year 1998 - 2001

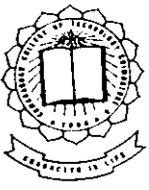

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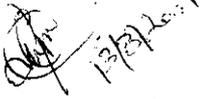
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CERTIFICATE

This is to certify that (1) Mr. M. Arun Prasad, Reg.No.: 9827Q0114 (2) Mr. D. Balachandran Reg.No.: 9827Q0115 (3) Mr. G. Ravikumar Reg.No.: 9827Q0154 and (4) Mr. C. Saravanan, Reg.No. 9827Q0161 has developed the project titled "Library Management System" for the B.Sc. Computer Technology Stream of our college is well tested and implemented.


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*Dedicated to our
Beloved Parents*

We are also thankful to other faculty and other non-faculty staffs of computer science department of kumaraguru college of technology for all the help rendered.

Synopsis

SYNOPSIS

The system entitled as “**LIBRARY MANAGEMENT SYSTEM**” has been developed for Computer Science and Engineering departmental library of **KUMARAGURU COLLEGE OF TECHNOLOGY, COIMBATORE**. The system computerizes all the activities that are related to the C.S.E departmental library of the college.

The system has four main modules, each of which has several sub modules in order to achieve the above.

The various reports produced by the system helps to enhance the performance of the system. The complete system has been developed in a user - friendly manner in **VISUAL BASIC 6.0** environment, providing a very good Graphical User Interface (GUI).The project is developed using **VISUAL BASIC** as the Front - End and **MS SQL SERVER 7.0** as the BackEnd on **WINDOWS 98** platform.

The system assists in managing the entire library and providing the most common operations required in a library, such as issue and return of books etc.

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Introduction

INTRODUCTION

1.1 ORGANISATIONAL PROFILE

KUMARAGURU COLLEGE OF TECHNOLOGY, COIMBATORE has a main library and the Computer Science and Engineering Department of the college has its own library, which is functioning well.

The departmental library consists of about 600 books related to various areas of information technology. A good collection of cd's including computer based tutorials for various subjects are included. It also includes about 40 IEEE journals and 10 computer magazines available for reference. The computerization of the C.S.E departmental library activities is taken as our project work.

The project **“LIBRARY MANAGEMENT SYSTEM”** computerizes the overall activities of the departmental library.

1.2. SCOPE OF THE PROJECT

The developed system is used to manage the issue and return of the books in the library. Prior to this system, much human work was needed. Due to the developed system of the library, it makes the client's and the administrator's work easy.

It is not necessary for the client to visit the library every time to know about the availability of the books. Instead the client can browse the library data through the developed application from client side application itself, which collects the data from the library server connected to it.

1.3. OVERVIEW OF THE PROJECT

As the project is developed for the entire departmental library of computer science and engineering department, it mainly deals with issuing and returning section of the library. It keeps track of books in the departmental library.

In the issue section, the book will be issued to the clients when they place request for the book available in the library. The clients can know about the availability of books in the library from the application loaded in the client side node.

1.4. OBJECTIVE OF THE PROJECT

The project is designed mainly to achieve the following goals precisely:

- Making users job more friendly – by VB's user friendly controls.
- Improve accuracy – by handling the valuable datas through VB's ADO(ActiveX Data Control) and its functions.
- Providing online information – by providing the updated informations to the applications and help for the user.

General Description

GENERAL DESCRIPTION

2.1 PROJECT PERSPECTIVE

The project is developed to satisfy the users in the network by making them to access the system from anywhere in the network which is connected to the library server. On the other hand, the administrator can maintain the library books by managing the return and issue of the books. Further he can also deal with users, by creating new user entries (as they are registered users) and deleting unwanted user entries. As the system needs to maintain a high level of security, each user is provided with a password to login to the application.

2.2 USER CHARACTERISTICS

In this system there are two types of users, one is the library administrator or the librarian, who is having full control over the system, including the database.

The other is the library client who is capable of viewing the available books in the library and can place only requests for the books from the application open to the client. But the client cannot make any modifications to the system or the database.

Thus the full access is provided to the administrator, who can control the access rights of the client and the database. The required access is provided for the clients, which is enough for them to perform their required operations.



System Analysis

SYSTEM ANALYSIS

3.1 NEED FOR COMPUTERISATION

When library management was done manually, all the entries, transaction, reports were to be prepared manually.

This resulted in many drawbacks like :

1. Time consumption
2. Searching the availability of books in the library manually

Hence all the operations are computerized. When computerized, the above constraints are broken.

3.2 PROPOSED SYSTEM

The system is designed by making a detailed study of the previous system. It was thoroughly analysed and the new system is developed.

The new system comprises of four modules, each having its own sub-modules.

- Maintenance
- Transaction
- Query
- Reports

The maintenance module keeps track of the books details. It helps in maintaining the books and the status of each book. To help this module, three sub modules namely Addition, Deletion and modification of books are given.



Any new books can be added. Modification on the booklist can be made. Deletion of the books is also possible. The transaction deals with issue section and the return section of the departmental library. The issue of books to the clients depends on the status of books.

The query helps to view the books status. The book status depends on whether the book has been issued to the clients or not.

The reports are developed monthly for the issued books to the clients. The reports include

- Available books in the library.
- Registered users with the library.
- Books that are issued to the clients.
- Books taken by particular user.

Salient Features

- Multi-user capability
- High security
- User friendly
- Reports are more clear

3.3 HARDWARE SPECIFICATIONS

SERVER :

Pentium 166 MHz

32 MB RAM + 4.3 GB Hard disk drive

1.44 MB Floppy Disk Drive

CD ROM Drive

32-bit Ethernet Card

SVGA Color Monitor

104 keys keyboard.

CLIENT :

Pentium 166 MHz

32 MB RAM / 1.2 GB Hard Disk Drive

1.44 MB Floppy Disk Drive

SVGA Color Monitor

104 keys keyboard.

3.4 SOFTWARE SPECIFICATION

PLATFORM

SERVER : WINDOWS 98
CLIENT : WINDOWS 95/98
FRONT END : VISUAL BASIC 6.0
BACK END : SQL SERVER 7.0

3.5 SOFTWARE DESCRIPTION

About Visual Basic 6.0

Visual Basic is the most popular programming language in the world. Some important reasons to use VB are

- Capability
- Flexibility
- Familiarity
- Popularity

Capability

VB is capable of producing software as sophisticated as any other data access techniques available. There is little you can do in say, Developer 2000 cannot be implemented equally well with ADO

Flexibility

We can use VB to write a text processor, An E-mail Listener or thousands of tasks, Instead of using only for database objects.

Familiarity

Being the most popular programming language in the world means there is a steady supply of talented staff for us to add to development teams. When the general supply is short, we will still be more likely to find development staff than other languages.

Popularity

The popularity of VB 6.0 supports

- ADO (ActiveX data objects)
- Database design tools
- Flex grid control
- ADO data control

ABOUT MICROSOFT SQL SERVER 7.0

MS SQL SERVER is the most powerful and popular and capable database management system.

Features of MS SQL server includes

- Managing databases
- Backup and restore
- Importing and Exporting data

Managing Databases

The managing database includes the data definition language(DDL) and data manipulation language(DML).The DDL commands is used to define the databases,tables,indexes and constraints. The DML commands to manipulate data like select,insert and delete datas into the tables.

Backup and restore

Backup is a process of taking a copy of the database. In Ms Sql Server the backup can be taken on the same server or on another server. The restoring and backup process is easy.

Importing and Exporting data

The importing and exporting data helps in copying datas from one datasource to another datasource. It easy to export or import datas from other data sources.

Design Constraints

SYSTEM DESIGN

System design can be stated as the process of planning a new system to replace an existing system the design specifications describes the features of the system, the components, the elements of the system and way the system interacts with the user.

4.1.1. INPUT DESIGN

Input to a system can be defined as the information that is used for further processing by the system to obtain meaningful information which helps in decision making.

The objective followed while doing are

- Controlling the request from the clients.
- All the validation checks on the data entered.

The input screens that are used in this system are classified into

- Request screen
- Maintenance screen

Request screen :

The input design of the request screen includes the requests passed by the clients for the books listed in the screen.

Maintenance screen :

The maintenance screen includes the data entry, updation, and deletion of books .

4.1.2 DATABASE DESIGN

Database management systems allow the data to be protected and organized separately from the other resources. Database is generally defined as “an integrated collection of data”. The database helps in maintaining the data, recovering facilities, privacy controls.

The project’s database structure maintained in the server, which contains the tables that are needed for the system.

The server database contains three main tables

- BOOKS TABLE
- USER TABLE
- ADMIN TABLE

BOOKS TABLE

The books table includes the book name, author name, accession number, departmental library number, call number, published year, price of the books, userid, issue date and issue flag. when the book has been issued the userid contains the clients name with issue date of the book to the client and issue flag is set to true.

USER TABLE

The user table contains the userid and password of the clients. The clients have type the userid and password before log in to the system.

ADMIN TABLE

The admin table includes the administrator ID and password. The administrator has rights to access all the tables. The clients can only view the books table.

TABLES

TABLE NAME : BOOKS TABLE

PRIMARY KEY : DLNO

COLUMN NAME	TYPE	DESCRIPTION
ACCNNO	VARCHAR(50)	ACCESSION NUMBER
DLNO	VARCHAR(50)	DEPARTMENTAL LIBRARY NUMBER
CALLNO	VARCHAR(50)	CALL NUMBER
TITLE	VARCHAR(100)	TITLE OF THE BOOK
AUTHOR	VARCHAR(100)	AUTHOR NAME OF THE BOOK
PUBYEAR	INT(10)	YEAR OF PUBLISHING
PRICE	MONEY(10)	PRICE OF THE BOOK
USER ID	VARCHAR(50)	USER IDENTIFICATION
ISSUE DATE	DATETIME(8)	DATE OF ISSUE
ISSUE	INT(4)	ISSUE FLAG

TABLE NAME : USER TABLE

PRIMARY KEY : UID

COLUMN NAME	TYPE	DESCRIPTION
UID	VARCHAR(50)	USER IDENTIFICATION
PWD	VARCHAR(6)	PASSWORD

TABLE NAME : ADMIN TABLE

PRIMARY KEY : UID

COLUMN NAME	TYPE	DESCRIPTION
UID	VARCHAR(50)	USER IDENTIFICATION
PWD	VARCHAR(7)	PASSWORD

4.1.3 OUTPUT DESIGN

Outputs from the system is required primarily to communicate the result of processing to the users. They are used to provide permanent copy of these results. While designing the outputs, the type of the report content, the format have to considered.

The reports of the system are generated so as to meet the requirements. The reports are designed as per the requirements of the administrator. The developed system helps to generate monthly reports on books that are issued to the clients and all the list of books available in the departmental library.

4.2. PERFORMANCE REQUIRMENTS

4.2.1 SECURITY

As the system deals with larger amount of data that are very precious, it is a must to maintain a very high level of security. This is achieved mainly by including the login forms. while logging in to the application the client have to enter the user id and password. The user id and password is validated and then the client is allowed to enter to the application. This helps in doing all the transactions on behalf of the user name.

The security is also achieved by not allowing the clients to create their user entries without the administrator permission. The major restriction is that the clients can log on only in the client side application and not on the administrator side application.

4.2.2 CAPACITY



The system is capable of dealing with larger volume of data as the backend is chosen to support larger volume of data. The application is developed so that it can be used in the network by sharing the database.

The database is refreshed by the application in a finite interval so that the recent changes in the database can also be noted to the system. Simultaneous access to the database is made possible for using the system in the network.

4.3. OTHER REQUIREMENTS

4.3.1 OPERATIONS REQUIRED BY THE USER

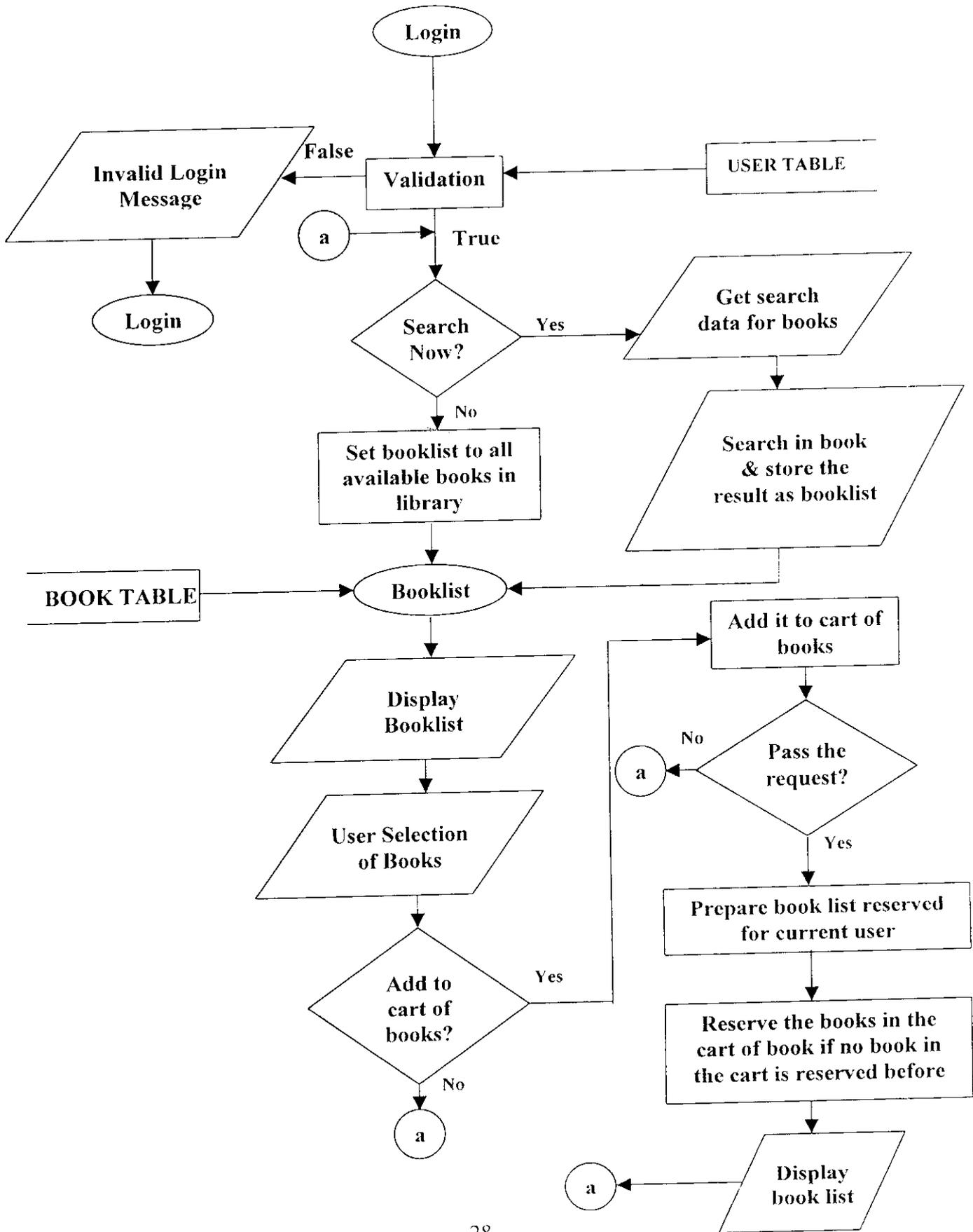
The following are the operations performed by the users,

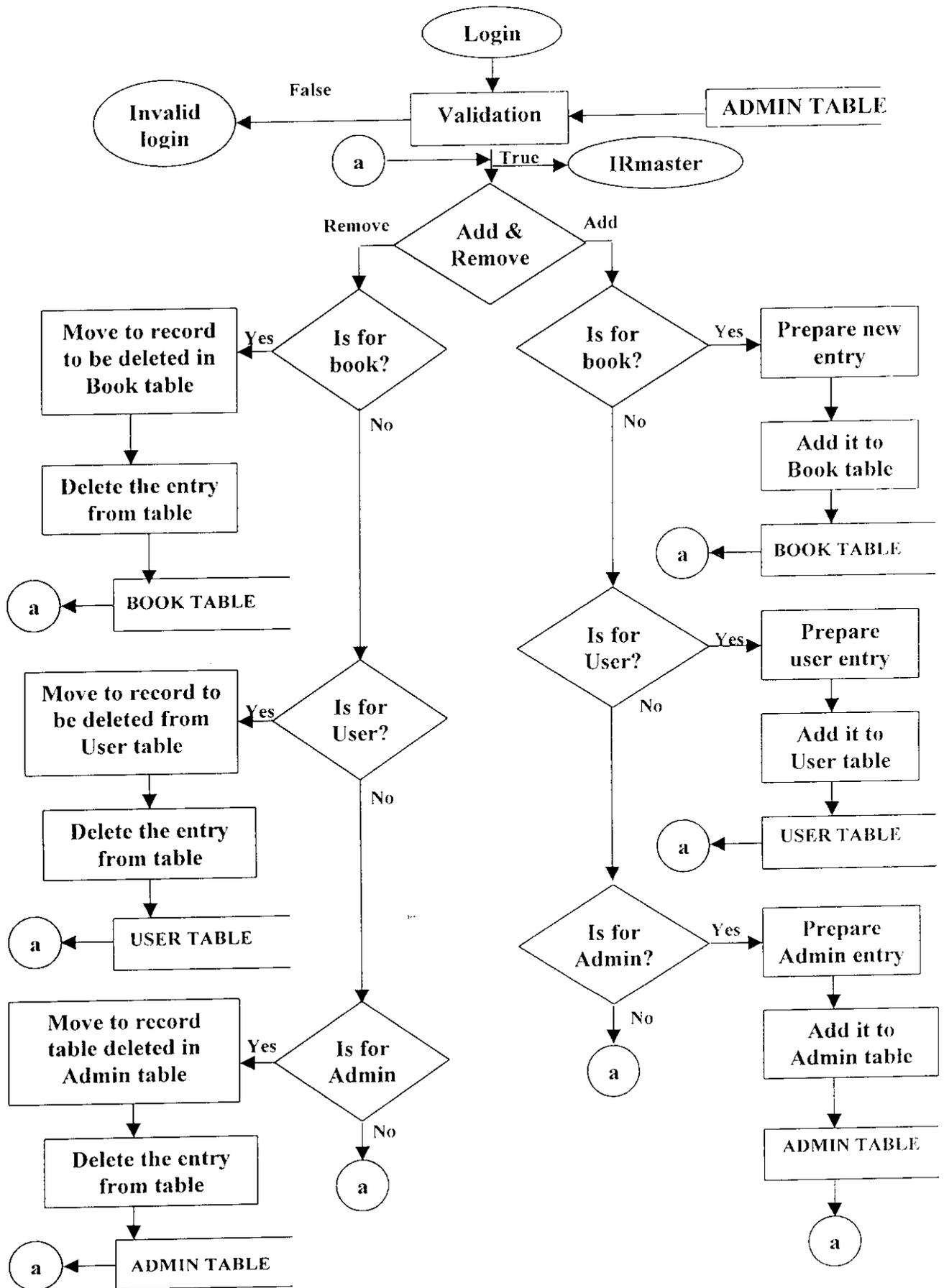
- Open the application
- Enter the login details
- Select the required books from the list
- Add the books to the cart
- Place the request for those books
- Receive the books from the library according to the message from the system.

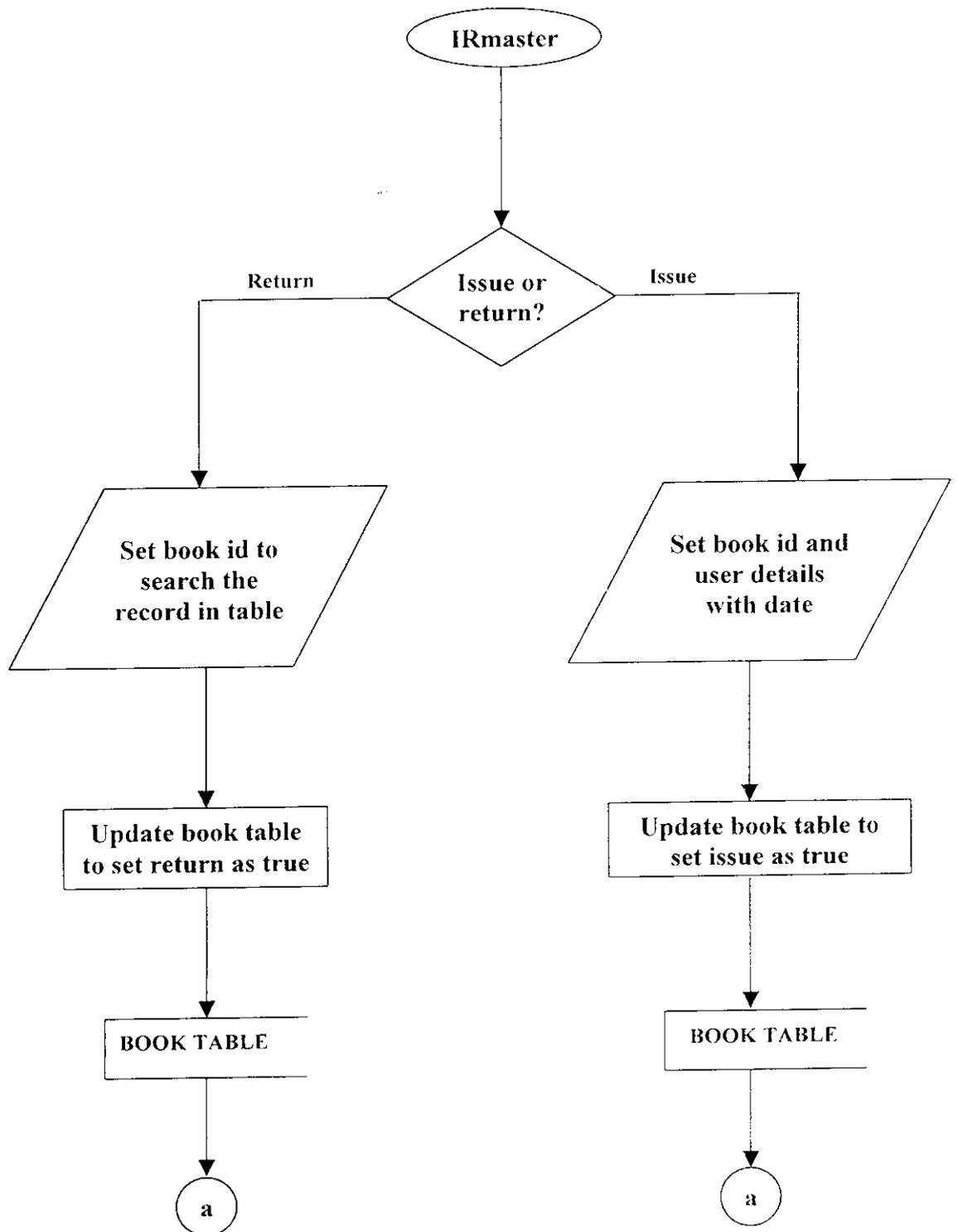
The following are the operations required by the administrators,

- Open the application
- Enter the login details
- Add or delete or edit the data's in the database
- Perform issue and return operations in the system for users requirements.

System Flow Diagram







SYSTEM TESTING AND IMPLEMENTATION

System testing is a style of implementation, which is aimed at ensuring that the system works correctly at various levels

The '**Library Management System**' has been tested under various conditions with different kinds of data.

The system is tested in three phases

- Unit testing
- System testing
- Acceptance testing

UNIT TESTING :

Here, each program unit is tested individually. So any error in a unit is debugged. The Sample datas are given for the unit testing. The unit test results are recorded for further reference. During unit testing the functionality of the program unit, validations and the limitations are tested.

SYSTEM TESTING :

In system testing the whole system is tested for interfaces between each of the modules and the program units are tested and recorded. This testing is done with sample data and live data. The security, communication between the interfaces are tested.

ACCEPTANCE TESTING :

The acceptance testing is the final stage of the user. The system is given to user and they will test system with live data. The various possibilities of the data are entered and the result are tested.

SYSTEM IMPLEMENTATION

Implementation is the stage of the project when the theoretical design is turned into a working system. At this stage the main workload, the greatest upheaval and the major impact on existing practices shifts to the user department. If the implementation stage is not carefully planned and controlled, it can cause chaos. Thus it can be considered to be the more crucial stage in achieving a successful new system and in giving the users confidence that the new system will work and be effective.

The implementation stage is a system project in its own right. It involves careful planning, investigation of the current system and its constraints on implementation, design of methods to achieve the change over procedures, and evaluation of changeover methods.

CONCLUSION

The '**LIBRARY MANAGEMENT SYSTEM**' has met its objective. This can be sensed by seeing that all the problems in the manual system has been solved and eradicated.

The system has been thoroughly tested with varied with data and was found to be fit. The system reliability is high and securities for the systems has been provided.

This system provides all the necessary required reports for the library management system.

The system is quite useful for the librarian and the clients. The system is made user friendly and menu driven.

SCOPE FOR FUTHER ENHANCEMENT :

This system can be developed futher, for the complete maintenance of the departmental library by including periodicals and project books to the database.

BIBLIGOGRAPHY

1. Visual Basic 6.0 from the ground up

- Gary Cornell

2. Mastering VB 6.0

- Arman Danesh

3. Doing objects in VB 6.0

- Deborah and Kurata

4. Expert guide to VB 6.0

- Wayne S.Freeze

5. MS Sql Server 7.0

- Ronald R.Talmage

6. Using Sql server 7.0

- Stephen Wynkoop

SOURCE CODING

VERSION 5.00

Object = "{5E9E78A0-531B-11CF-91F6-C2863C385E30}#1.0#0";
"MSFLXGRD.OCX"

Object = "{F6125AB1-8AB1-11CE-A77F-08002B2F4E98}#2.0#0";
"MSRDC20.OCX"

Begin VB.Form LibraryViewer

 Caption = "LIBRARY VIEWER"
 ClientHeight = 5790
 ClientLeft = 60
 ClientTop = 345
 ClientWidth = 7170
 Icon = "LibManClient.frx":0000
 LinkTopic = "Form1"
 MDIChild = -1 'True
 ScaleHeight = 8595
 ScaleWidth = 11880
 WindowState = 2 'Maximized

Begin MSRDC.MSRDC req

 Height = 375
 Left = 2640
 Top = 8040
 Width = 1455
 _ExtentX = 2566
 _ExtentY = 661
 _Version = 393216
 Options = 0
 CursorDriver = 1
 BOFAction = 0
 EOFAction = 0
 RecordsetType = 1
 LockType = 3
 QueryType = 0
 Prompt = 3
 Appearance = 1
 QueryTimeout = 30
 RowsetSize = 100
 LoginTimeout = 15
 KeysetSize = 0
 MaxRows = 0
 ErrorThreshold = -1
 BatchSize = 15

```

BackColor    = -2147483643
ForeColor    = -2147483640
Enabled      = -1 'True
ReadOnly     = 0 'False
Appearance   = -1 'True
DataSourceName = "dlib"
RecordSource = ""
UserName     = "sa"
Password     = ""
Connect      = "odbc"
LogMessages  = ""
Caption      = "MSRDC2"
BeginProperty Font {0BE35203-8F91-11CE-9DE3-00AA004BB851}
  Name       = "MS Sans Serif"
  Size       = 8.25
  Charset    = 0
  Weight     = 400
  Underline  = 0 'False
  Italic     = 0 'False
  Strikethrough = 0 'False
EndProperty
End
Begin MSFlexGridLib.MSFlexGrid flex1
  Bindings    = "LibManClient.frx":030A
  Height     = 4455
  Left       = 120
  TabIndex   = 31
  Top        = 840
  Width      = 9375
  _ExtentX   = 16536
  _ExtentY   = 7858
  _Version   = 393216
  FixedCols  = 0
  AllowUserResizing= 3
End
Begin VB.ListBox dlnocart
  Height     = 2205
  ItemData   = "LibManClient.frx":031F
  Left       = 9600
  List       = "LibManClient.frx":0321
  TabIndex   = 30
  Top        = 4920
  Visible    = 0 'False
  Width      = 1935
End
Begin VB.Frame Frame6
  Caption    = " CART "

```

```

BeginProperty Font
  Name      = "MS Sans Serif"
  Size      = 9.75
  Charset   = 0
  Weight    = 700
  Underline = 0 'False
  Italic    = 0 'False
  Strikethrough = 0 'False
EndProperty
Height     = 3375
Left      = 9600
TabIndex  = 26
Top       = 1200
Width     = 1935
Begin VB.CommandButton cmdRemItem
  Caption   = "REMOVE ITEM"
  Height    = 375
  Left      = 240
 TabIndex   = 29
  Top       = 2880
  Width     = 1455
End
Begin VB.CommandButton cmdClear
  Caption   = "CLEAR"
  Height    = 375
  Left      = 240
 TabIndex   = 28
  Top       = 2400
  Width     = 1455
End
Begin VB.ListBox cart
  Height    = 2010
  ItemData  = "LibManClient.frx":0323
  Left      = 120
  List      = "LibManClient.frx":0325
 TabIndex   = 27
  Top       = 240
  Width     = 1695
End
End
Begin VB.TextBox txtCliName
  Enabled   = 0 'False
  BeginProperty Font
    Name     = "MS Sans Serif"
    Size     = 9.75
    Charset  = 0
    Weight   = 700

```

```

    Underline = 0 'False
    Italic    = 0 'False
    Strikethrough = 0 'False
EndProperty
Height      = 375
Left        = 120
Locked      = -1 'True
TabIndex    = 24
Text        = "None"
Top         = 360
Width       = 2655
End
Begin VB.Frame Frame5
    Caption   = "TOPIC SEARCH "
    Height    = 735
    Left      = 1800
   TabIndex   = 20
    Top       = 6360
    Width     = 5535
Begin VB.TextBox txtSearch1
    BeginProperty Font
        Name      = "MS Sans Serif"
        Size      = 12
        Charset   = 0
        Weight    = 700
        Underline = 0 'False
        Italic    = 0 'False
        Strikethrough = 0 'False
    EndProperty
    Height     = 345
    Left       = 1680
   TabIndex    = 22
    Top        = 240
    Width      = 2895
End
Begin VB.CommandButton cmdGo
    Caption   = "Go"
    BeginProperty Font
        Name      = "MS Sans Serif"
        Size      = 12
        Charset   = 0
        Weight    = 700
        Underline = 0 'False
        Italic    = 0 'False
        Strikethrough = 0 'False
    EndProperty
    Height    = 300

```

```

Left      = 4680
TabIndex = 21
Top       = 240
Width     = 735
End
Begin VB.Label Label4
Caption   = "KEYWORD"
BeginProperty Font
    Name      = "MS Sans Serif"
    Size      = 9.75
    Charset   = 0
    Weight    = 700
    Underline = 0 'False
    Italic    = 0 'False
    Strikethrough = 0 'False
EndProperty
ForeColor = &H00000000&
Height    = 300
Left      = 240
TabIndex  = 23
Top       = 240
Width     = 1215
End
End
Begin VB.Frame Frame1
Caption   = "OPTION"
Height    = 615
Left      = 2760
TabIndex  = 15
Top       = 7200
Width     = 3735
Begin VB.CommandButton cmdRequest
Caption   = "REQUEST"
Height    = 255
Left      = 1320
TabIndex  = 19
Top       = 240
Width     = 1095
End
Begin VB.CommandButton cmdExit
Caption   = "EXIT"
Height    = 255
Left      = 2520
TabIndex  = 17
Top       = 240
Width     = 1095
End

```

Begin VB.CommandButton Command1

Caption = "REFRESH"

Height = 255

Left = 120

TabIndex = 16

Top = 240

Width = 1095

End

End

Begin VB.Frame Frame4

Caption = "SORT BY :"

Height = 2055

Left = 7560

TabIndex = 9

Top = 5520

Width = 1335

Begin VB.OptionButton Option10

Caption = "DL.NO"

Height = 255

Left = 120

TabIndex = 14

Top = 960

Width = 1095

End

Begin VB.OptionButton Option9

Caption = "ACCN.NO"

Height = 255

Left = 120

TabIndex = 13

Top = 1320

Width = 1095

End

Begin VB.OptionButton Option8

Caption = "AUTHOR"

Height = 255

Left = 120

TabIndex = 12

Top = 600

Width = 1095

End

Begin VB.OptionButton Option7

Caption = "TITLE"

Height = 255

Left = 120

TabIndex = 11

Top = 240

Width = 1095

```

End
Begin VB.OptionButton Option6
    Caption      = "CALLNO"
    Height       = 255
    Left         = 120
    TabIndex     = 10
    Top          = 1680
    Width        = 1095
End
End
Begin MSRDC.MSRDC MSRDC1
    Height       = 375
    Left         = -360
    Top          = 8160
    Visible      = 0 'False
    Width        = 2055
    _ExtentX     = 3625
    _ExtentY     = 661
    _Version     = 393216
    Options      = 0
    CursorDriver = 0
    BOFAction    = 0
    EOFAction    = 0
    RecordsetType = 1
    LockType     = 3
    QueryType    = 0
    Prompt       = 3
    Appearance   = 1
    QueryTimeout = 30
    RowsetSize   = 100
    LoginTimeout = 15
    KeysetSize   = 0
    MaxRows      = 0
    ErrorThreshold = -1
    BatchSize    = 15
    BackColor    = -2147483643
    ForeColor    = -2147483640
    Enabled      = -1 'True
    ReadOnly     = 0 'False
    Appearance   = -1 'True
    DataSourceName = "dlib"
    RecordSource = "select
DLNO,ACCNNO,CALLNO,TITLE,AUTHOR,PUBYEAR from book;"
    UserName     = "sa"
    Password     = ""
    Connect      = ""
    LogMessages  = ""

```

```
Caption      = "MSRDC1"
BeginProperty Font {0BE35203-8F91-11CE-9DE3-00AA004BB851}
  Name       = "MS Sans Serif"
  Size      = 8.25
  Charset   = 0
  Weight    = 400
  Underline = 0 'False
  Italic    = 0 'False
  Strikethrough = 0 'False
EndProperty
End
Begin VB.OptionButton optCallno
  Caption      = "CALLNO"
  Height      = 255
  Left        = 360
  TabIndex    = 8
  Top         = 7200
  Width       = 1095
End
Begin VB.OptionButton optTitle
  Caption      = "TITLE"
  Height      = 255
  Left        = 360
  TabIndex    = 7
  Top         = 5760
  Width       = 1095
End
Begin VB.OptionButton optAuthor
  Caption      = "AUTHOR"
  Height      = 255
  Left        = 360
  TabIndex    = 6
  Top         = 6120
  Width       = 1095
End
Begin VB.OptionButton optAccno
  Caption      = "ACCN.NO"
  Height      = 255
  Left        = 360
  TabIndex    = 5
  Top         = 6840
  Width       = 1095
End
Begin VB.OptionButton optDlno
  Caption      = "DL.NO"
  Height      = 255
  Left        = 360
```

```
    TabIndex    = 4
    Top         = 6480
    Width       = 1095
End
Begin VB.Frame Frame3
    Caption     = "SEARCH BY : "
    Height      = 2055
    Left        = 240
    TabIndex    = 3
    Top         = 5520
    Width       = 1335
End
Begin VB.Frame Frame2
    Caption     = "SEARCH"
    Height      = 735
    Left        = 1800
    TabIndex    = 0
    Top         = 5520
    Width       = 5535
Begin VB.TextBox txtSearch
    Height      = 375
    Left        = 1080
    TabIndex    = 2
    Top         = 240
    Width       = 4335
End
Begin VB.Label lblchg
    Caption     = "TITLE : "
    Height      = 255
    Left        = 120
    TabIndex    = 1
    Top         = 300
    Width       = 975
End
End
Begin VB.Image Image1
    Height      = 1905
    Left        = 9240
    Picture     = "LibManClient.frx":0327
    Top         = 5880
    Width       = 2145
End
Begin VB.Label Label3
    Caption     = "Client Name : "
BeginProperty Font
    Name       = "MS Sans Serif"
    Size      = 9.75
```

```

    Charset      = 0
    Weight       = 700
    Underline    = 0 'False
    Italic       = 0 'False
    Strikethrough = 0 'False
EndProperty
Height         = 255
Left           = 120
TabIndex       = 25
Top            = 120
Width          = 2295
End
Begin VB.Label Label2
    Caption      = "    DEPARTMENT LIBRARY,
KUMARAGURU COLLEGE OF TECH."
    BeginProperty Font
        Name      = "MS Sans Serif"
        Size      = 13.5
        Charset   = 0
        Weight    = 700
        Underline = 0 'False
        Italic    = 0 'False
        Strikethrough = 0 'False
    EndProperty
    ForeColor    = &H00FF0000&
    Height       = 735
    Left         = 3360
    TabIndex     = 18
    Top          = 120
    Width        = 6375
End
End
Attribute VB_Name = "LibraryViewer"
Attribute VB_GlobalNameSpace = False
Attribute VB_Creatable = False
Attribute VB_PredeclaredId = True
Attribute VB_Exposed = False
Dim ip1 As Integer
Public str As String
Dim con As New ADODB.Connection
Dim rss As New ADODB.Recordset

Private Sub cart_Click()
    ip1 = cart.ListIndex
End Sub
Private Sub cmdClear_Click()
    cart.Clear

```

```

dlnocart.Clear
End Sub
Private Sub cmdExit_Click()
txtSearch.Text = ""
r = MsgBox("Want To Quit ! ", vbYesNo, "Exit ! ")
If r = vbYes Then
    Unload LibraryViewer
End If
End Sub
Private Sub cmdGo_Click()
MSRDC1.SQL = "SELECT
DLNO,ACCNO,CALLNO,TITLE,AUTHOR,PUBYEAR FROM BOOK WHERE
TITLE LIKE '%" & txtSearch1.Text & '%"
MSRDC1.Refresh
End Sub
Private Sub cmdRemItem_Click()
If cart.ListCount > 0 Then
cart.RemoveItem ip1
End If
If dlnocart.ListCount > 0 Then
dlnocart.RemoveItem ip1
End If
End Sub
Private Sub cmdRequest_Click()
For i = 0 To dlnocart.ListCount - 1
req.SQL = "update book set USERID = '" & txtCliName.Text & "' where dlno = '"
& dlnocart.List(i) & "' and USERID is null "
Next i
u = MsgBox("Now u r having the following books", , "NOTE")
MSRDC1.SQL = "select dlno,callno,accno,title,author,userid from book where
USERID like '" & txtCliName.Text & "' "
MSRDC1.Refresh
End Sub
Private Sub Command1_Click()
MSRDC1.SQL = "EXECUTE DEFQRY"
MSRDC1.Refresh
optTitle.Value = False
optAuthor.Value = False
optDlno.Value = False
optAccno.Value = False
optCallno.Value = False
Option6.Value = False
Option7.Value = False
Option8.Value = False
Option9.Value = False
Option10.Value = False
txtSearch.Text = ""

```

```

txtSearch1.Text = ""
End Sub
Private Sub Command2_Click()
If Text1.Text = "admin" And Text2.Text = "admin" Then
    Frame7.Visible = False
Else
    t = MsgBox("LoginFailure", vbOKCancel, "Failure")
    If t = vbCancel Then
        End
    End If
End If
End Sub
Private Sub Command3_Click()
End
End Sub
Private Sub dlncart_Click()
ip1 = dlncart.ListIndex
End Sub
Private Sub flex1_DblClick()
flex1.Col = 3
reg = MsgBox(flex1.Text, vbOKCancel, "Add To Cart?")
If reg = 1 Then
    cart.AddItem (flex1.Text)
    cmdRemItem.Enabled = True
    cmdClear.Enabled = True
End If
flex1.Col = 0
If reg = 1 Then
    dlncart.AddItem (flex1.Text)
    cmdRemItem.Enabled = True
    cmdClear.Enabled = True
End If
End Sub
Private Sub Form_Load()
If cart.ListCount < 1 Then
cmdRemItem.Enabled = False
cmdClear.Enabled = False
End If
txtCliName.Text = mdiMain.clinam
End Sub
Private Sub optAccno_Click()
txtSearch.Text = ""
txtSearch.SetFocus
lblchg.Caption = optAccno.Caption
End Sub
Private Sub optAuthor_Click()
txtSearch.Text = ""

```

```

txtSearch.SetFocus
lblchg.Caption = optAuthor.Caption
End Sub
Private Sub optCallno_Click()
txtSearch.Text = ""
txtSearch.SetFocus
lblchg.Caption = optCallno.Caption
End Sub
Private Sub optDlno_Click()
txtSearch.Text = ""
txtSearch.SetFocus
lblchg.Caption = optDlno.Caption
End Sub
Private Sub Option10_Click()
txtSearch.Text = ""
MSRDC1.SQL = "EXECUTE SORTDLNO "
MSRDC1.Refresh
End Sub
Private Sub Option6_Click()
txtSearch.Text = ""
MSRDC1.SQL = "EXECUTE SORTCALLNO "
MSRDC1.Refresh
End Sub
Private Sub Option7_Click()
txtSearch.Text = ""
MSRDC1.SQL = "EXECUTE SORTTITLE"
MSRDC1.Refresh
End Sub
Private Sub Option8_Click()
txtSearch.Text = ""
MSRDC1.SQL = "EXECUTE SORTAUTHOR "
MSRDC1.Refresh
End Sub
Private Sub Option9_Click()
txtSearch.Text = ""
MSRDC1.SQL = "EXECUTE SORTACCNNO "
MSRDC1.Refresh
End Sub
Private Sub optTitle_Click()
txtSearch.Text = ""
txtSearch.SetFocus
lblchg.Caption = optTitle.Caption
End Sub
Private Sub txtSearch_Change()
If optDlno.Value = True Then
MSRDC1.SQL = "EXECUTE SEARCHDLNO '" & txtSearch.Text & "%'"
MSRDC1.Refresh

```

```
Else
  If optAccno.Value = True Then
    MSRDC1.SQL = "EXECUTE SEARCHACCNNO '" & txtSearch.Text & "%'"
    MSRDC1.Refresh
  Else
    If optCallno.Value = True Then
      MSRDC1.SQL = "EXECUTE SEARCHCALLNO '" & txtSearch.Text &
"%'"
      MSRDC1.Refresh
    Else
      If optTitle.Value = True Then
        MSRDC1.SQL = "EXECUTE SEARCHTITLE '" & txtSearch.Text &
"%'"
        MSRDC1.Refresh
      Else
        If optAuthor.Value = True Then
          MSRDC1.SQL = "EXECUTE SEARCHAUTHOR '" & txtSearch.Text &
"%'"
          MSRDC1.Refresh
        End If
      End If
    End If
  End If
End If
End If
End Sub
```

VERSION 5.00

Object = "{67397AA1-7FB1-11D0-B148-00A0C922E820};#6.0#0";
"MSADODC.OCX"

Begin VB.Form frmAddbuk

BorderStyle = 3 'Fixed Dialog
Caption = "ADD BOOK"
ClientHeight = 5490
ClientLeft = 1095
ClientTop = 330
ClientWidth = 7230
Icon = "frmAddbuk.frx":0000
KeyPreview = -1 'True
LinkTopic = "Form2"
MaxButton = 0 'False
MDIChild = -1 'True
MinButton = 0 'False
ScaleHeight = 5490
ScaleWidth = 7230

Begin VB.CommandButton cmdAdd

Caption = "&Add"
BeginProperty Font
Name = "MS Sans Serif"
Size = 8.25
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False

EndProperty

Height = 300
Left = 960
TabIndex = 18
Top = 3840
Width = 1095

End

Begin VB.CommandButton cmdUpdate

Caption = "&Update"
BeginProperty Font
Name = "MS Sans Serif"
Size = 8.25
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False

EndProperty

Height = 300

```
Left      = 2160
TabIndex = 17
Top       = 3840
Width     = 1095
End
Begin VB.CommandButton cmdRefresh
Caption   = "&Refresh"
BeginProperty Font
Name      = "MS Sans Serif"
Size     = 8.25
Charset  = 0
Weight   = 700
Underline = 0 'False
Italic   = 0 'False
Strikethrough = 0 'False
EndProperty
Height   = 300
Left     = 960
TabIndex = 16
Top      = 4200
Width    = 1095
End
Begin VB.CommandButton cmdClose
Caption   = "&Close"
BeginProperty Font
Name      = "MS Sans Serif"
Size     = 8.25
Charset  = 0
Weight   = 700
Underline = 0 'False
Italic   = 0 'False
Strikethrough = 0 'False
EndProperty
Height   = 300
Left     = 2160
TabIndex = 15
Top      = 4200
Width    = 1095
End
Begin VB.TextBox txtFields
DataField = "ACCNNO"
DataSource = "datPrimaryRS"
Height    = 285
Index     = 0
Left      = 2760
TabIndex  = 6
Top       = 540
```

```
Width      = 1935
End
Begin VB.TextBox txtFields
DataField  = "DLNO"
DataSource = "datPrimaryRS"
Height     = 285
Index      = 1
Left       = 2760
TabIndex   = 5
Top        = 975
Width      = 1935
End
Begin VB.TextBox txtFields
DataField  = "CALLNO"
DataSource = "datPrimaryRS"
Height     = 285
Index      = 2
Left       = 2760
TabIndex   = 4
Top        = 1425
Width      = 1935
End
Begin VB.TextBox txtFields
DataField  = "TITLE"
DataSource = "datPrimaryRS"
Height     = 285
Index      = 3
Left       = 2760
TabIndex   = 3
Top        = 1860
Width      = 3735
End
Begin VB.TextBox txtFields
DataField  = "AUTHOR"
DataSource = "datPrimaryRS"
Height     = 285
Index      = 4
Left       = 2760
TabIndex   = 2
Top        = 2295
Width      = 3735
End
Begin VB.TextBox txtFields
DataField  = "PUBYEAR"
DataSource = "datPrimaryRS"
Height     = 285
Index      = 5
```



```
Left      = 2760
TabIndex  = 1
Top       = 2745
Width     = 1455
End
Begin VB.TextBox txtFields
    DataField    = "PRICE"
    DataSource   = "datPrimaryRS"
    Height       = 285
    Index        = 6
    Left         = 2760
    TabIndex     = 0
    Top          = 3180
    Width        = 1455
End
Begin MSAdodcLib.Adodc datPrimaryRS
    Align        = 2 'Align Bottom
    Height       = 330
    Left         = 0
    Top          = 5160
    Width        = 7230
    _ExtentX    = 12753
    _ExtentY    = 582
    ConnectMode  = 0
    CursorLocation = 3
    IsolationLevel = -1
    ConnectionTimeout= 15
    CommandTimeout = 30
    CursorType   = 3
    LockType     = 3
    CommandType  = 8
    CursorOptions = 0
    CacheSize    = 50
    MaxRecords   = 0
    BOFAction    = 0
    EOFAction    = 0
    ConnectStringType= 1
    Appearance   = 1
    BackColor    = -2147483643
    ForeColor    = -2147483640
    Orientation  = 0
    Enabled      = -1
    Connect      =
"PROVIDER=MSDASQL;dsn=dlib;uid=sa;pwd=;database=DigiLib;"
    OLEDBString  =
"PROVIDER=MSDASQL;dsn=dlib;uid=sa;pwd=;database=DigiLib;"
    OLEDBFile    = ""
```

```

DataSourceName = ""
OtherAttributes = ""
UserName      = ""
Password      = ""
RecordSource  = "select
ACCNNO,DLNO,CALLNO,TITLE,AUTHOR,PUBYEAR,PRICE from BOOK
Order by DLNO"
Caption      = ""
BeginProperty Font {0BE35203-8F91-11CE-9DE3-00AA004BB851}
  Name       = "MS Sans Serif"
  Size       = 8.25
  Charset    = 0
  Weight     = 400
  Underline  = 0 'False'
  Italic     = 0 'False'
  Strikethrough = 0 'False'
EndProperty
_Version     = 393216
End
Begin VB.Label lblHowto
  Caption    = "Press 'ADD' button to type new entry and then press
'UPDATE' button after typing the entry to save the changes."
  BeginProperty Font
    Name      = "MS Sans Serif"
    Size      = 9.75
    Charset   = 0
    Weight    = 700
    Underline = 0 'False'
    Italic    = 0 'False'
    Strikethrough = 0 'False'
  EndProperty
  Height     = 975
  Left       = 3720
  TabIndex   = 14
  ToolTipText = "On-Line help for DigiLib"
  Top        = 3720
  Width      = 3255
End
Begin VB.Label lblLabels
  Caption    = "ACCNNO:"
  BeginProperty Font
    Name      = "MS Sans Serif"
    Size      = 8.25
    Charset   = 0
    Weight    = 700
    Underline = 0 'False'
    Italic    = 0 'False'
  EndProperty

```

```

    Strikethrough = 0 'False
EndProperty
Height      = 255
Index       = 0
Left        = 840
TabIndex    = 13
Top         = 540
Width       = 1815
End
Begin VB.Label lblLabels
Caption     = "DLNO:"
BeginProperty Font
    Name      = "MS Sans Serif"
    Size      = 8.25
    Charset   = 0
    Weight    = 700
    Underline = 0 'False
    Italic    = 0 'False
    Strikethrough = 0 'False
EndProperty
Height      = 255
Index       = 1
Left        = 840
TabIndex    = 12
Top         = 975
Width       = 1815
End
Begin VB.Label lblLabels
Caption     = "CALLNO:"
BeginProperty Font
    Name      = "MS Sans Serif"
    Size      = 8.25
    Charset   = 0
    Weight    = 700
    Underline = 0 'False
    Italic    = 0 'False
    Strikethrough = 0 'False
EndProperty
Height      = 255
Index       = 2
Left        = 840
TabIndex    = 11
Top         = 1425
Width       = 1815
End
Begin VB.Label lblLabels
Caption     = "TITLE:"

```

```
BeginProperty Font
  Name      = "MS Sans Serif"
  Size      = 8.25
  Charset   = 0
  Weight    = 700
  Underline = 0 'False
  Italic    = 0 'False
  Strikethrough = 0 'False
```

```
EndProperty
Height     = 255
Index      = 3
Left       = 840
TabIndex   = 10
Top        = 1860
Width      = 1815
```

End

```
Begin VB.Label lblLabels
```

```
  Caption   = "AUTHOR:"
```

```
  BeginProperty Font
```

```
    Name      = "MS Sans Serif"
    Size      = 8.25
    Charset   = 0
    Weight    = 700
    Underline = 0 'False
    Italic    = 0 'False
    Strikethrough = 0 'False
```

```
  EndProperty
```

```
  Height     = 255
  Index      = 4
  Left       = 840
 TabIndex   = 9
  Top        = 2295
  Width      = 1815
```

End

```
Begin VB.Label lblLabels
```

```
  Caption   = "PUBYEAR:"
```

```
  BeginProperty Font
```

```
    Name      = "MS Sans Serif"
    Size      = 8.25
    Charset   = 0
    Weight    = 700
    Underline = 0 'False
    Italic    = 0 'False
    Strikethrough = 0 'False
```

```
  EndProperty
```

```
  Height     = 255
  Index      = 5
```

```

Left      = 840
TabIndex = 8
Top       = 2745
Width     = 1815
End
Begin VB.Label lblLabels
Caption   = "PRICE:"
BeginProperty Font
Name      = "MS Sans Serif"
Size      = 8.25
Charset   = 0
Weight    = 700
Underline = 0 'False
Italic    = 0 'False
Strikethrough = 0 'False
EndProperty
Height    = 255
Index     = 6
Left      = 840
TabIndex  = 7
Top       = 3180
Width     = 1815
End
End
Attribute VB_Name = "frmAddbuk"
Attribute VB_GlobalNameSpace = False
Attribute VB_Creatable = False
Attribute VB_PredeclaredId = True
Attribute VB_Exposed = False
Private Sub datPrimaryRS_Error(ByVal ErrorNumber As Long, Description As
String, ByVal Scode As Long, ByVal Source As String, ByVal HelpFile As String,
ByVal HelpContext As Long, fCancelDisplay As Boolean)
MsgBox "Data error event hit err:" & Description
End Sub
Private Sub datPrimaryRS_MoveComplete(ByVal adReason As
ADODB.EventReasonEnum, ByVal pError As ADODB.Error, adStatus As
ADODB.EventStatusEnum, ByVal pRecordset As ADODB.Recordset)
datPrimaryRS.Caption = "Record: " &
CStr(datPrimaryRS.Recordset.AbsolutePosition)
End Sub
Private Sub datPrimaryRS_WillChangeRecord(ByVal adReason As
ADODB.EventReasonEnum, ByVal cRecords As Long, adStatus As
ADODB.EventStatusEnum, ByVal pRecordset As ADODB.Recordset)
Dim bCancel As Boolean
Select Case adReason
Case adRsnAddNew
Case adRsnClose

```

```

Case adRsnDelete
Case adRsnFirstChange
Case adRsnMove
Case adRsnRequery
Case adRsnResynch
Case adRsnUndoAddNew
Case adRsnUndoDelete
Case adRsnUndoUpdate
Case adRsnUpdate
End Select
If bCancel Then adStatus = adStatusCancel
End Sub
Private Sub cmdAdd_Click()
    On Error GoTo AddErr
    datPrimaryRS.Recordset.AddNew
    Exit Sub
AddErr:
    MsgBox Err.Description
End Sub
Private Sub cmdRefresh_Click()
    On Error GoTo RefreshErr
    datPrimaryRS.Refresh
    Exit Sub
RefreshErr:
    MsgBox Err.Description
End Sub
Private Sub cmdUpdate_Click()
    On Error GoTo UpdateErr
    datPrimaryRS.Recordset.UpdateBatch adAffectAll
    Exit Sub
UpdateErr:
    MsgBox Err.Description
End Sub
Private Sub cmdClose_Click()
    Unload Me
End Sub

Private Sub Form_Load()
    datPrimaryRS.Recordset.AddNew
End Sub

```

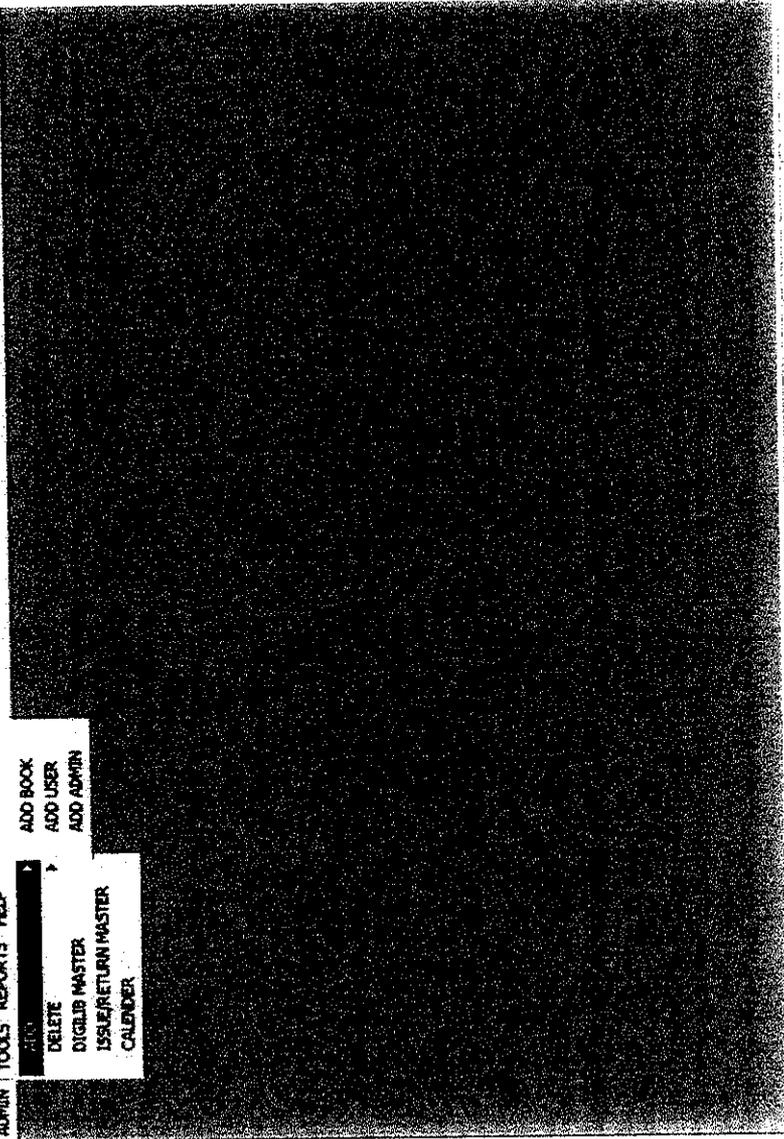


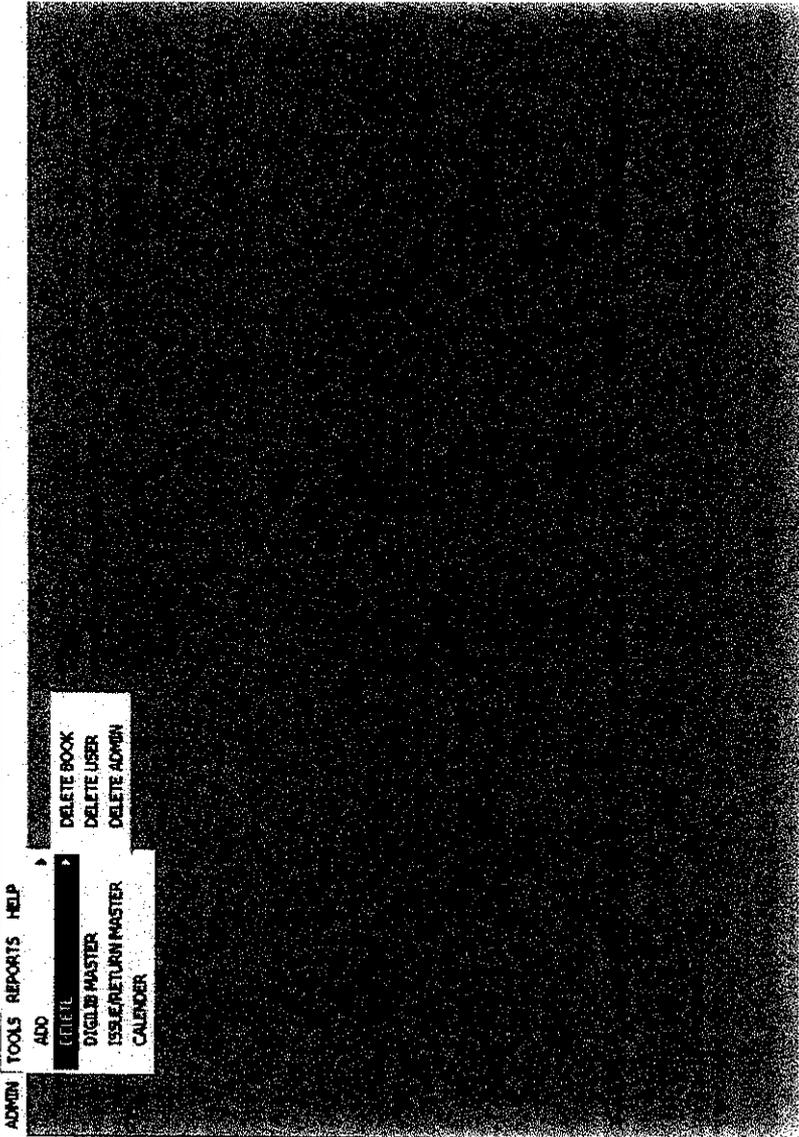
LIBRARY MANAGEMENT SYSTEM

ADMIN TOOLS REPORTS HELP

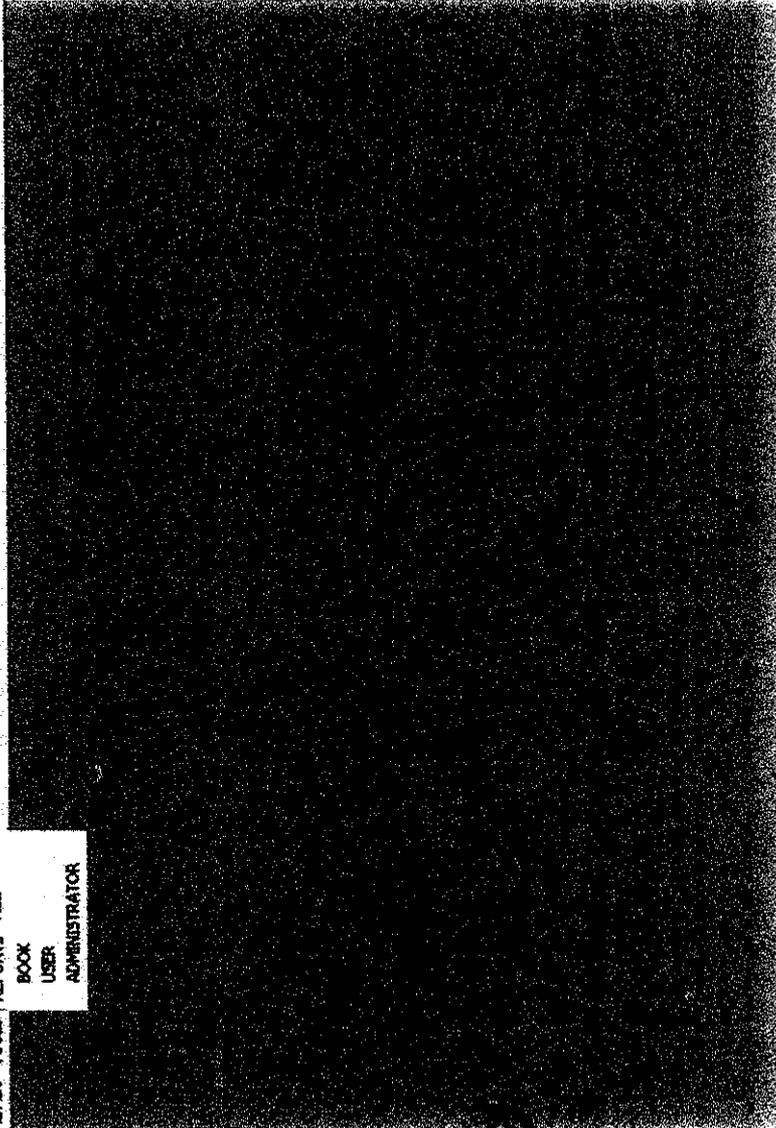
- DELETE
- DIGLIB MASTER
- ISSUE/RETURN MASTER
- CALENDAR

- ADD BOOK
- ADD USER
- ADD ADMIN





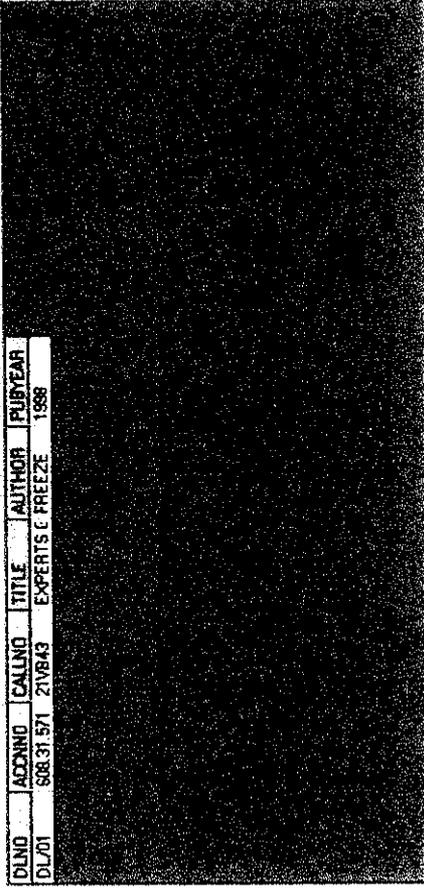
- ADD
- DELETE
- DELETE BOOK
- DELETE USER
- DELETE ADMIN
- ISSUE/RETURN MASTER
- CALENDAR



DEPARTMENT LIBRARY,
KUMARAGURU COLLEGE OF TECH.

Client Name :
FROM

DLNO	ACCNNO	CALLNO	TITLE	AUTHOR	PUBYEAR
DL/01	508.31.571	21VB/3	EXPERTS & FREEZE	1988	



CART

CLEAR

REMOVE ITEM

SEARCH BY :

TITLE

AUTHOR

DLNO

ACCN.NO

CALLNO

SEARCH TITLE :

TOPIC SEARCH KEYWORD

Go

OPTION REFRESH REQUEST EXIT

SORT BY :

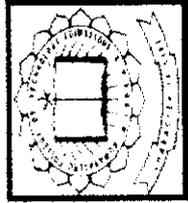
TITLE

AUTHOR

DLNO

ACCN.NO

CALLNO



BOOKS	USER LOGIN	ADMIN LOGIN												
ACCN NO	<input type="text"/>													
CALL NO	<input type="text"/>													
DL NO	<input type="text"/>													
TITLE	<input type="text"/>													
AUTHOR	<input type="text"/>													
PUBLISH YEAR	<input type="text"/>													
PRICE	<input type="text"/>													
<table border="1"> <tr> <td>ADD</td> <td>UPDATE</td> <td>REFRESH</td> </tr> <tr> <td>DELETE</td> <td>SAVE</td> <td>CLOSE</td> </tr> <tr> <td> <<</td> <td><<</td> <td>>></td> </tr> <tr> <td></td> <td></td> <td>>> </td> </tr> </table>			ADD	UPDATE	REFRESH	DELETE	SAVE	CLOSE	<<	<<	>>			>>
ADD	UPDATE	REFRESH												
DELETE	SAVE	CLOSE												
<<	<<	>>												
		>>												

BOOKS	USER LOGIN	ADMIN LOGIN
USER NAME	<input type="text"/>	
PASSWORD	<input type="password"/>	
RETYPE PASSWORD	<input type="password"/>	
ADD	UPDATE	REFRESH
DELETE	SAVE	CLOSE
<<	<<	>>
>>	>>	>>

BOOKS	USER LOGIN	ADMIN LOGIN
ADMIN NAME	<input type="text" value="javi"/>	<input type="text"/>
PASSWORD	<input type="text" value="*****"/>	<input type="text"/>
RETYPE PASSWORD	<input type="text"/>	<input type="text"/>
ADD	UPDATE	REFRESH
DELETE	SAVE	CLOSE
<<	<<	>>
<input type="text"/>		Go <input type="text"/>

ACCNNO:	_____
DLNO:	_____
CALLNO:	_____
TITLE:	_____
AUTHOR:	_____
PUBYEAR:	_____
PRICE:	_____

Press 'ADD' button to type new entry and then press 'UPDATE' button after typing the entry to save the changes.

Add	Update
Refresh	Close

Record 2

DELETE USER

USERNAME	<input type="text" value="jsun"/>
PASSWORD	<input type="text" value="jsun"/>

Delete Update
Refresh Close

Press 'DELETE' button to delete existing entry and then press 'UPDATE' button to save the changes.

Record: 1

C.S.E DEPARTMENTAL LIBRARY
KUMARAGURU COLLEGE OF TECHNOLOGY.

DATE 3/11/2001

TIME 10:47

ACCNNO	CALLNO	DLNO	TITLE
Z1836	003	DL/01	THE ESSENCE OF EFFECTIVE COMMUNICATION
Z1826	003	DL/02	DEVELOPING COMMUNICATION SKILLS
Z1807	007	DL/03	EXPERT SYSTEMS THEORY AND PRACTICE
21933	007 ALK	DL/04	AN INTRODUCTION TO NEURAL COMPUTING
13789	007 BEA	DL/05	USING MICROSOFT FRONTPAGE 98
17698	007 JAC	DL/06	INTRODUCTION TO EXPERT SYSTEMS SECOND EDITION
14900	007 WAT	DL/07	A GUIDE TO EXPERT SYSTEMS
22073	007.52	DL/08	ARTIFICIAL INTELLIGENCE A NEW SYNTHESIS
21715	007.52 ALB	DL/09	EXPERT SYSTEMS FOR REFERENCE & INFORMATION RETRIEV
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