Project for the Degree of B.Sc. Engineering

Project On: Library Management System

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Library Management System

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Abstract:

The Project titled “Library Management System” is Library management software for library. My Project based on C programming. This project is very useful for manage the library system. This project of “**Library Management System**” of gives us the complete information about the library. User can see the record of new books and also can see the details of books available in the library. Admin can issue the books to the students and maintain their records and also check how many books are issued and stock available in the library. Admin can delete any book if any book lost or remove in library.

Acknowledgment

In this very special moment, first and foremost I would like to express my heartiest gratitude to the almighty God for allowing me to accomplish this project successfully. It is my first project. I am really thankful for the enormous blessings that the Almighty has bestowed upon me not only my student life but also throughout my whole life. Then I like to give many thanks to my project supervisor F.M Rahat Hasan Robi, Lecturer, Department of Computer Science and Engineering, who encouraged, supervised and supplied necessary requirements and guideline in performing this work. In achieving the gigantic goal, I have gone through the interactions with and help from internet and would like to extend my deepest appreciation to those who have contributed to this dissertation itself in an essential way.

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Chapter 1: Introduction

Basically, this app contains three items. It is a secret password which is only known by Admin. First item is Admin Section. This means that admin can add unlimited number of books which are store in library. Second item is User section which is that if anyone have library id, he/she can see the record of new books and also can see the details of books available in the library. Third item is Developers. You can see who developed the softwere. And there are many options in admin and user menu. Like adding book, removing book, modifying book record, adding user, changing password etc.

Chapter 2: Related work

There are many apps like Library management, that apps are given below:

1. Hospital management
2. Cricket score management
3. Phone book management

From these apps idea, anyone can develop this app. Library manager are the target user of this app. Also, all classes of people can use this app for enjoy library management. In this digital country, it is very odd for register the student information for issue book. For this it is very essential.

Chapter 3: **Implementation Details**

How does project work:

1. Add books (any new books should entry on this project if it is available on your library).
2. Delete books (if any books lost in the library you should delete this book).
3. View all books (you can see all books which are available on your library).
4. User can see the record of new books and also can see the details of books available in the library

Chapter 4: **Software Manual**

1. Admin:
2. Users:
3. Devloper Info:

Main Page:

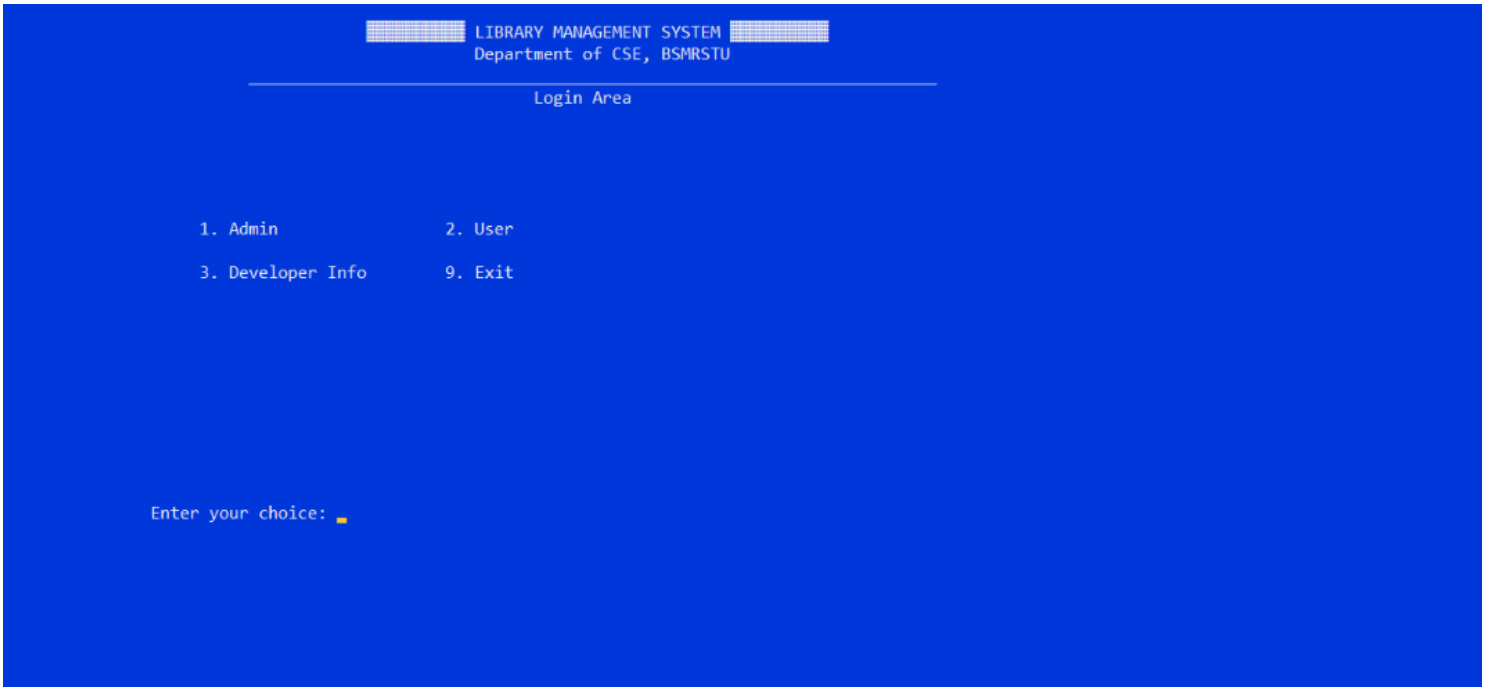


Fig no. 1

When we run the software, first page is look like this(Fig no. 1).

There is three option Admin, User and Developer Info.

Admin Workspace

1. Book Info
2. User Info
3. Change User Password

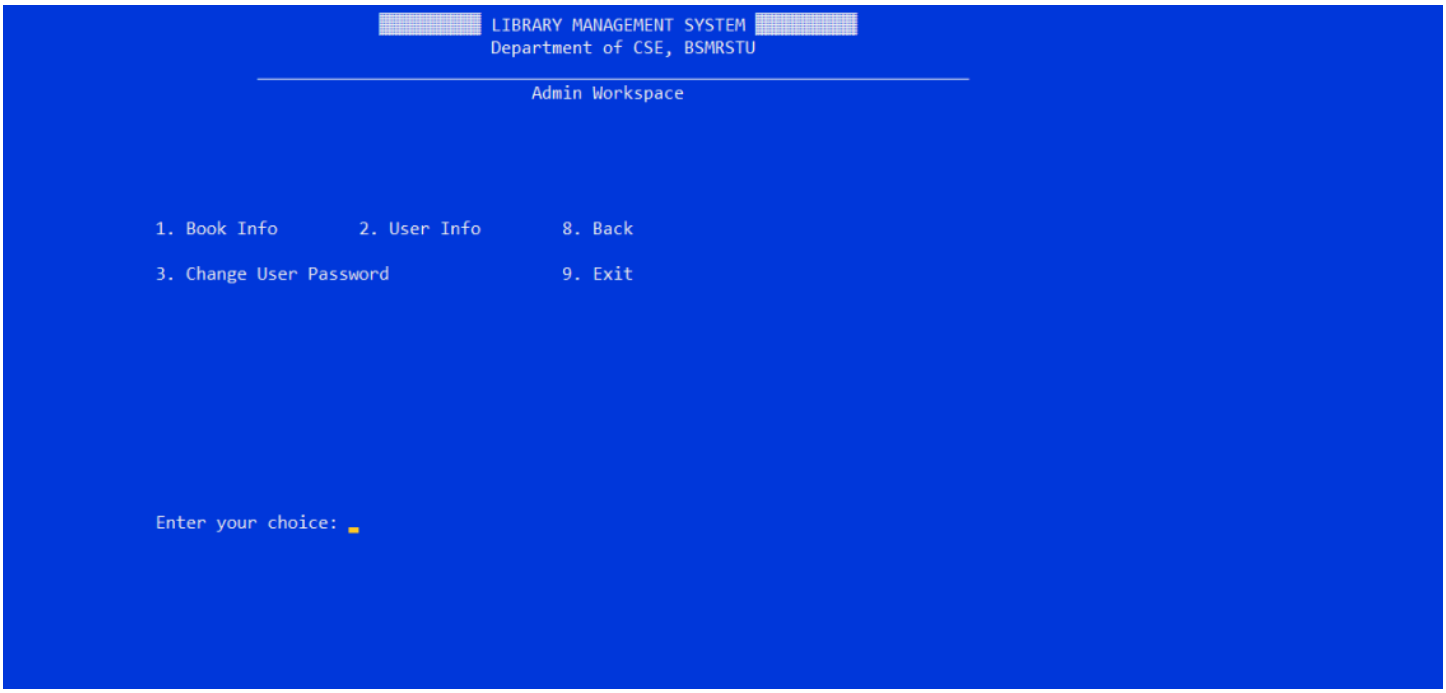


Fig no. 2

If we select option 1, admin workspace will open like this(Fig no. 2). There is also three option these are Book Info, User Info and Change User Password

Book Info:

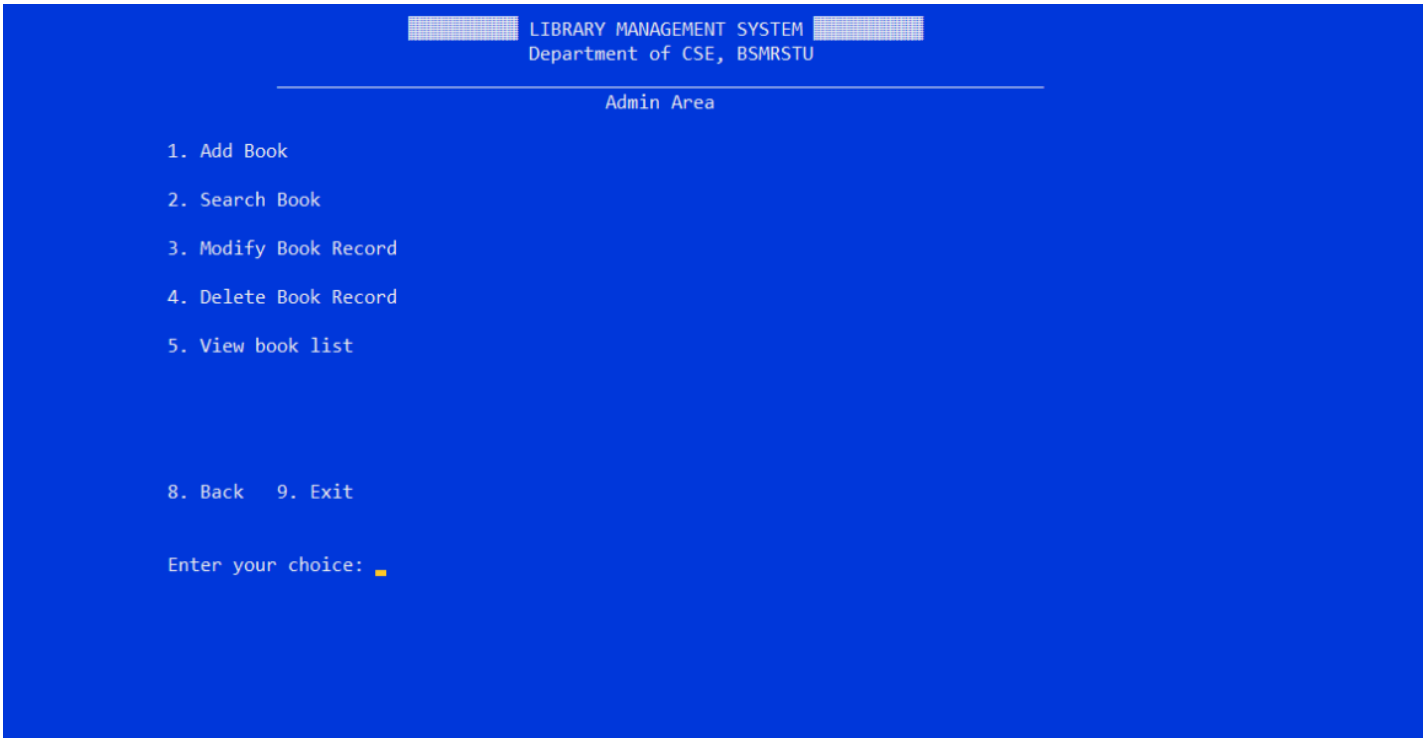


Fig no. 3

Then by pressing 1 in admin workspace this page comes(Fig no. 3).

And there is five option Add Book, Search Book, Modify Book Record, Delete Book Record and View book list.

Add Book:

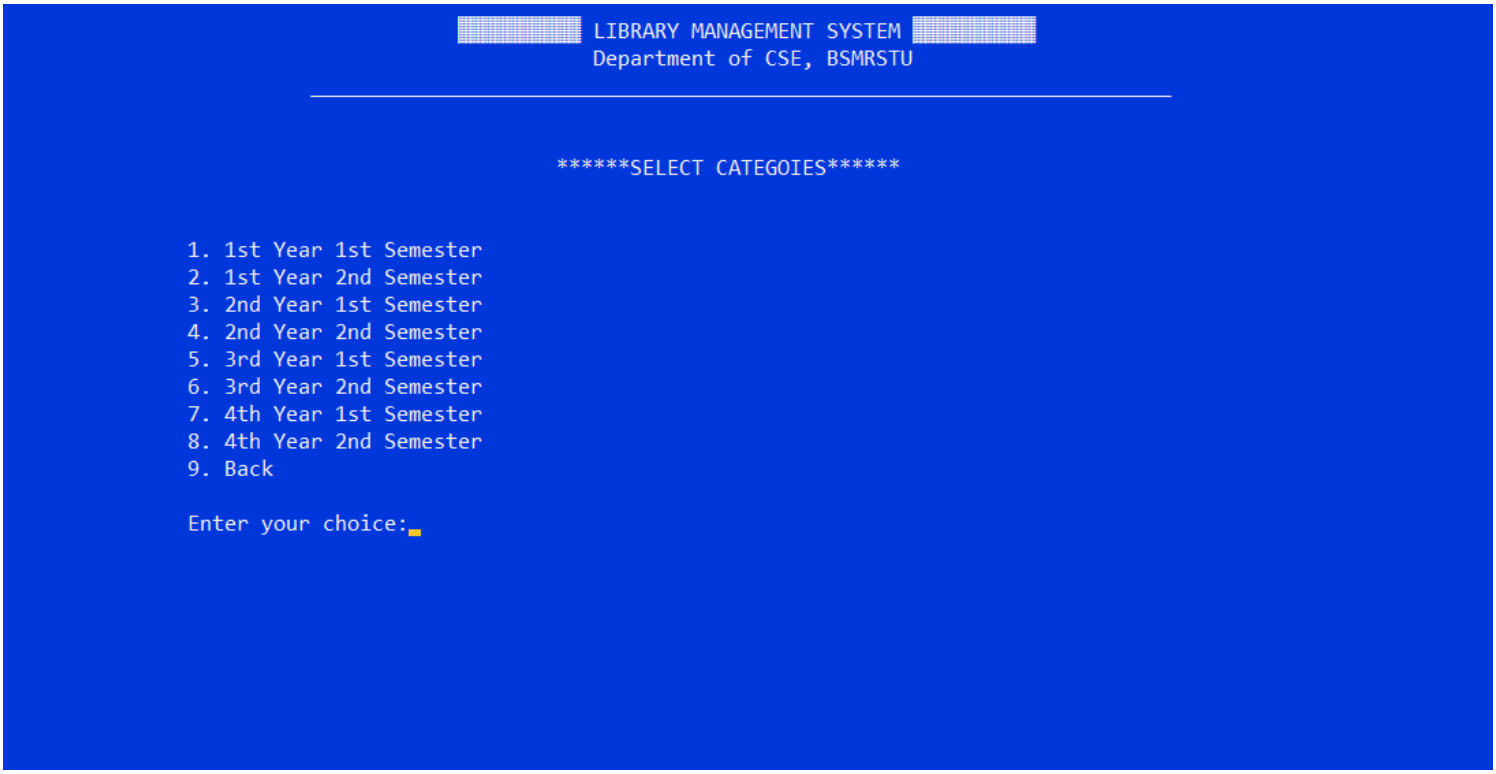


Fig no. 4

If we want add book, we have to select option 1, the this page shows(Fig no. 4). And there these categories will come and we have to select categories.

Search Books:

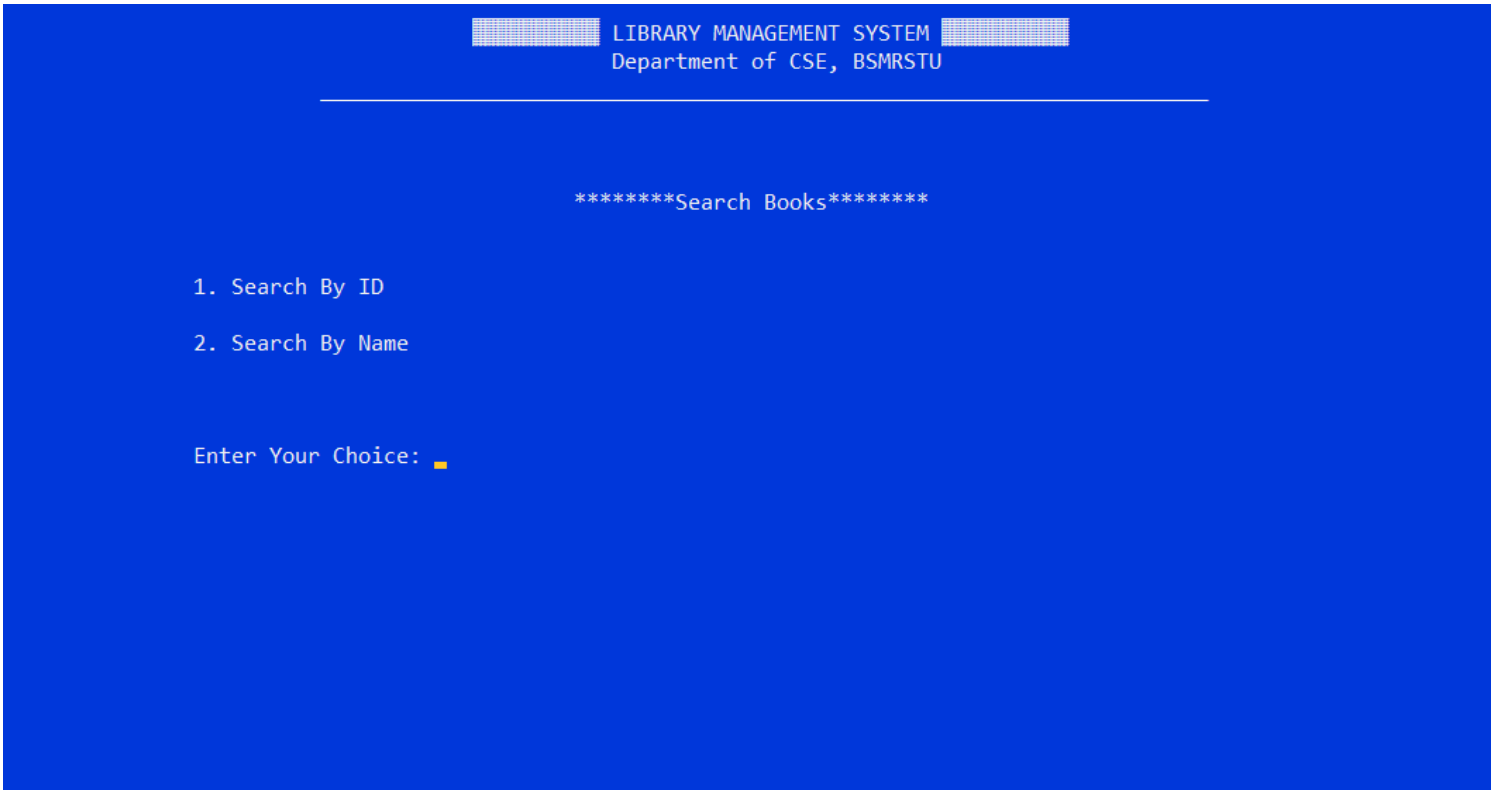
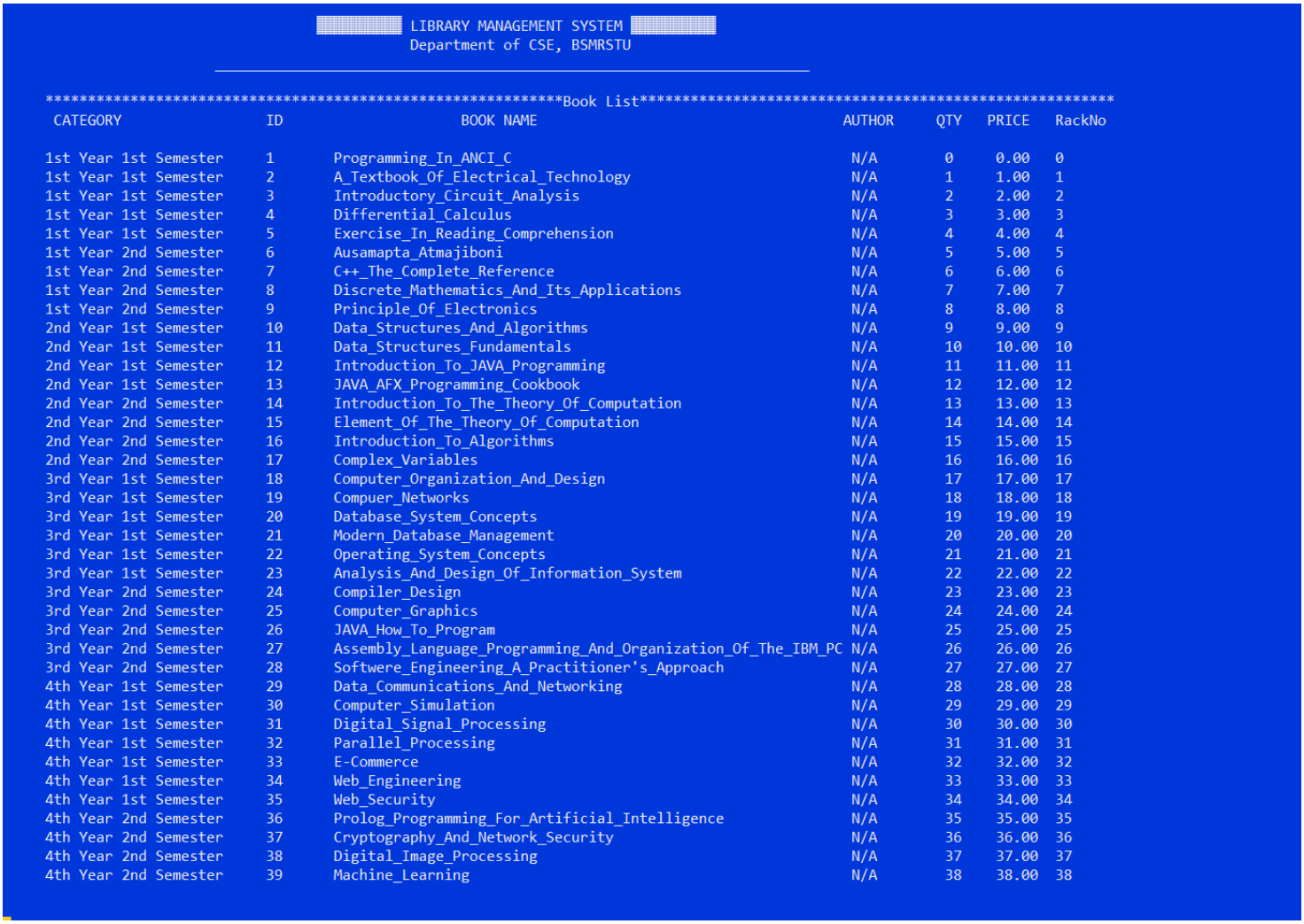


Fig no. 5

Search book option open like this(Fig no. 5). There is two option Search By ID and Search By Name. We can search books by typing book id or book name.

View Book List:



LIBRARY MANAGEMENT SYSTEM
Department of CSE, BSMRSTU

**********Book List**********

CATEGORY	ID	BOOK NAME	AUTHOR	QTY	PRICE	RackNo
1st Year 1st Semester	1	Programming_In_ANCI_C	N/A	0	0.00	0
1st Year 1st Semester	2	A_Textbook_Of_Electrical_Technology	N/A	1	1.00	1
1st Year 1st Semester	3	Introductory_Circuit_Analysis	N/A	2	2.00	2
1st Year 1st Semester	4	Differential_Calculus	N/A	3	3.00	3
1st Year 1st Semester	5	Exercise_In_Reading_Comprehension	N/A	4	4.00	4
1st Year 2nd Semester	6	Ausamapta_Atmajiboni	N/A	5	5.00	5
1st Year 2nd Semester	7	C++_The_Complete_Reference	N/A	6	6.00	6
1st Year 2nd Semester	8	Discrete_Mathematics_And_Its_Applications	N/A	7	7.00	7
1st Year 2nd Semester	9	Principle_Of_Electronics	N/A	8	8.00	8
2nd Year 1st Semester	10	Data_Structures_And_Algorithms	N/A	9	9.00	9
2nd Year 1st Semester	11	Data_Structures_Fundamentals	N/A	10	10.00	10
2nd Year 1st Semester	12	Introduction_To_JAVA_Programming	N/A	11	11.00	11
2nd Year 1st Semester	13	JAVA_AFX_Programming_Cookbook	N/A	12	12.00	12
2nd Year 2nd Semester	14	Introduction_To_The_Theory_Of_Computation	N/A	13	13.00	13
2nd Year 2nd Semester	15	Element_Of_The_Theory_Of_Computation	N/A	14	14.00	14
2nd Year 2nd Semester	16	Introduction_To_Algorithms	N/A	15	15.00	15
2nd Year 2nd Semester	17	Complex_Variables	N/A	16	16.00	16
3rd Year 1st Semester	18	Computer_Organization_And_Design	N/A	17	17.00	17
3rd Year 1st Semester	19	Compuer_Networks	N/A	18	18.00	18
3rd Year 1st Semester	20	Database_System_Concepts	N/A	19	19.00	19
3rd Year 1st Semester	21	Modern_Database_Management	N/A	20	20.00	20
3rd Year 1st Semester	22	Operating_System_Concepts	N/A	21	21.00	21
3rd Year 1st Semester	23	Analysis_And_Design_Of_Information_System	N/A	22	22.00	22
3rd Year 2nd Semester	24	Compiler_Design	N/A	23	23.00	23
3rd Year 2nd Semester	25	Computer_Graphics	N/A	24	24.00	24
3rd Year 2nd Semester	26	JAVA_How_To_Program	N/A	25	25.00	25
3rd Year 2nd Semester	27	Assembly_Language_Programming_And_Organization_Of_The_IBM_PC	N/A	26	26.00	26
3rd Year 2nd Semester	28	Softwere_Engineering_A_Practitioner's_Approach	N/A	27	27.00	27
4th Year 1st Semester	29	Data_Communications_And_Networking	N/A	28	28.00	28
4th Year 1st Semester	30	Computer_Simulation	N/A	29	29.00	29
4th Year 1st Semester	31	Digital_Signal_Processing	N/A	30	30.00	30
4th Year 1st Semester	32	Parallel_Processing	N/A	31	31.00	31
4th Year 1st Semester	33	E-Commerce	N/A	32	32.00	32
4th Year 1st Semester	34	Web_Engineering	N/A	33	33.00	33
4th Year 1st Semester	35	Web_Security	N/A	34	34.00	34
4th Year 2nd Semester	36	Prolog_Programming_For_Artificial_Intelligence	N/A	35	35.00	35
4th Year 2nd Semester	37	Cryptography_And_Network_Security	N/A	36	36.00	36
4th Year 2nd Semester	38	Digital_Image_Processing	N/A	37	37.00	37
4th Year 2nd Semester	39	Machine_Learning	N/A	38	38.00	38

Fig no. 6

If we want to view all books then we have to press five and book list will shows like this(Fig no. 6).

Developer Info:

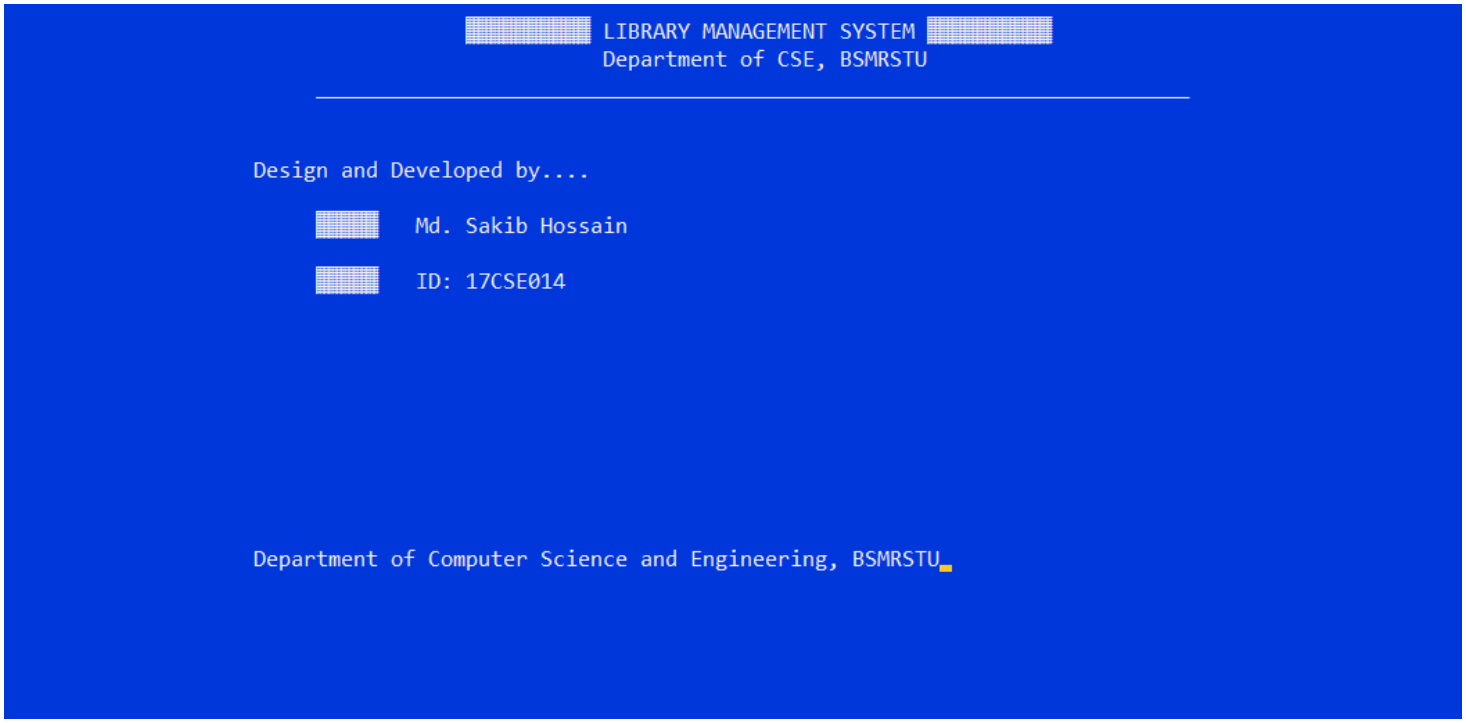


Fig no. 7

If we press 3 in main page then this page opens(Fig no. 7). It shows who developed the software.

Chapter 5: **Future Scope**

This project is now many restricted. It is now use for only one department and it is very useful. In future I will develop it for any library management. In future, by using this app any library can be managed. This application can be easily implemented under various situations. We can add new features as and when we require. Reusability impossible as and when require in this application. Reusability is possible as and when require in this application. We can update it next version. Reusable software reduces design, coding and testing cost by amortizing effort over several designs. Reducing the amount of code also simplifies understanding, which increases the likelihood that the code is correct. We follow up both types of reusability.

Chapter 6: **CONCLUSION**

Library Management System allows the user to store the book details and the customer details. This software package allows storing the details of all the data related to library. The system is strong enough to withstand regressive yearly operations under conditions where the database is maintained and cleared over a certain time of span. The implementation of the system in the organization will considerably reduce data entry, time and also provide readily calculated reports.

References:

1. https://www.google.com/

2. https://www.wikipedia.org/

3. https://github.com/