

# Library Management System

By: (2307-BSCS009)

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# WHAT IS LMS?

AS THE NAME SUGGEST THE LIBRARY MANAGEMENT SYSTEM IS A SOFTWARE:

- HANDLES THE ENTIRE DATA OF LIBRARY.
- MAKES THE WORK OF A LIBRARIAN EASY.
- MAKES TRACKING OF BOOKS EASY.

# Features Of LMS

- I HAVE CREATED SEPARATE LOGINS FOR STUDENTS AND THE LIBRARIAN, IN WHICH THE LIBRARIAN IS PASSWORD PROTECTED.
- IN THIS PROJECT, THE LIBRARIAN CAN ADD BOOKS AND CAN ISSUE THE BOOKS TO THE STUDENTS.
- THE STUDENTS CAN ALSO VIEW THE LIST OF THE BOOKS AVAILABLE IN THE ENTIRE LIBRARY DATABASE.
- THE STUDENTS CAN ALSO SEARCH BOOK BY NAME OR BY BOOK ID.
- THE STUDENTS CAN REQUEST TO ISSUE A BOOK FROM A LIBRARIAN.
- THIS PROJECT USES FILE HANDLING TO STORE THE DATA OF BOOKS SUCH AS BOOKLIST, REQUESTED BOOKS AND ISSUED BOOKS IN A PROJECT.

# WORKING OF PROJECT

## Main Screen

WHEN YOU RUN THE  
PROJECT FROM ANY  
COMPILER OR  
DIRECTLY CLICKING  
ON THE EXECUTABLE  
.EXE FILE YOU'LL SEE  
THIS SCREEN

\*\*\*\*\*  
\*\*\*\*\*WELCOME TO\*\*\*\*\*  
\*\*\*\*\*LIBRARY MANAGEMENT SYSTEM\*\*\*\*\*  
\*\*\*\*\*

Made By: Hyder Ali Hashmi

Roll number:2307-BSCS009

Please choose one option:

1. Student
2. Librarian
3. Close Application

Enter any choice:

# STUDENTS OPTIONS:

Students will not require additional sign-in.

They will only be asked to enter their necessary information which is then showed to them as well.

After pressing any button ,next screen will appear.

```
*****LIBRARY MANAGEMENT SYSTEM*****
*****  
Made By: Hyder Ali Hashmi  
Roll number:2307-BSCS009  
  
Please choose one option:  
1. Student  
2. Librarian  
3. Close Application  
  
Enter any choice: 1  
Enter your name: Demo  
Enter your ID: 01  
Enter your department: CS  
Enter your batch: 2307  
  
Student's Data Entered:  
Name: Demo  
ID:1  
Department: CS  
Batch: 2307  
  
Press any key to continue: 1
```

# STUDENT OPTIONS (NEXT SCREEN):

THIS SCREEN INCLUDES:

**A) BOOKLIST:**

IN THIS MENU OPTION ALL THE STUDENTS WILL BE ABLE TO VIEW THE BOOKS PRESENT IN THE DATABASE.

**B) REQUEST TO ISSUE BOOK:**

HERE THE STUDENT IS JUST ASKED TO ENTER BOOK'S ID TO INITIATE THE PROCESS

**C) SEARCH FOR A BOOK:**

THE STUDENT CAN SEARCH BOOK EITHER BY BOOK NAME OR BY BOOK ID.

**D) CLOSE APPLICATION:**

BY PRESSING THE CHOICE AS 4 THE APPLICATION WILL BE CLOSED.

Choose any option:

1. View book list
2. Request to issue a book
3. Search for a book
4. Close the application

Enter any option:

# LIBRARIAN OPTIONS

- LIBRARIAN WILL BE REQUIRED TO SIGN IN TO ACCESS THE SOFTWARE.
- THE LIBRARIAN ALSO NEEDS TO ENTER HIS/HER PERSONAL DATA TO LOGIN. IF THE PASSWORD IS INCORRECT THE APPLICATION WILL SHOW THE ERROR OF WRONG PASSWORD.

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Please choose one option:

1. Student
2. Librarian
3. Close Application

```
Enter any choice: 2  
Enter your name: Demo
```

```
Enter your ID: 01
```

```
Enter your designation: Librarian
```

```
Enter username: admin  
Enter password: ****  
Login Successful  
Employee's Data Entered:  
Name: Demo  
ID:1  
Designation: Librarian
```

Press any key to continue:

# LIBRARIAN OPTIONS (CONTINUED):

## 1. View Booklist:

Same as students, librarians will also able to see the books available in the library database.

## 2. Add Book:

In this menu option Librarian can add a book. As we are using the file handling methods in this project, every time new file is generated to store the details of the books. i.e. **Book4.csv**.

## 3. Issue a Book:

By using this option a librarian can issue a book to a student by using the data from file RequestBook.csv. The data of issued books are then stored in a new file as IssuedBooks.csv

Choose any option:

1. Add a book
2. View book list
3. Issue a book
4. Close the application

Enter any option:

# ITNI BORING SLIDES BARDASHT KARNE KE LIYE:

