

# PROJECT REPORT

## **TITLE OF THE PROJECT : LIBRARY MANAGEMENT SYSTEM**

### **ABSTRACT :**

Library is place where all kind of books are available. Intranet Library Management system is a web based application. This system contains list of all the books and can be accessed by remote users concurrently. We can issue the books to the students and maintain their records and can also check how many books are issued and stock available in the library. It is a project which aims in developing a computerized system to maintain all the daily work of library.

Overall this project of ours is being developed to help staff of library to maintain the library in the best way possible and also reduce the human efforts.

## **INTRODUCTION :**

Library management system is a simple console application using linked list in C programming language. User can perform basic library management operations like issuing books, returning the issued books and displaying records of the issued books with the user details.

Each book in the library has a unique identification number. The user issues the book by entering the book ID and the user details. Each user can issue only one book at a time. When the user returns the issued book, the book is available in the library for issuing again. The record of the issued book with user details can also be viewed.

## **PROPOSED METHODOLOGY :**

The program has 4 modules:

- 1.Issue of books
- 2.Return of books
- 3.Display student details
- 4.Exit

According to the choice of user, its respective functionalities will be unlocked.

Functionalities are listed below:

1.Issue of books

-Enter the book ID

-Enter student details

-Enter your Name

-Enter your Email

2.Return of Books

-Enter your Book ID

3.Display student details

-Student Name

-Student Email

-Name of Book issued

-Book ID

4.Exit

**ALGORITHM:**

Step 1 : Start

Step 2 : Ask the user to choose any one option

Issue of books

Return of books

Display Student Details

Exit

Step 3 :If the user choose option (1) then display the books available in the library. Ask the user Book ID which he want and ask the details of the student (Name, Email).After taking the details of student display Book Issued.

Step 4 :If the user choose option (2) then display Enter your Book ID  
If the user enters book ID which is issued display Book returned successfully. If the user enters book ID which is not issued display go the the main menu.

Step 5 :If the user choose option (3) then display the details of students who took books from the library.

Step 6:If the user choose option(4) then exit from the portal.

Step 7:Stop.

## **SOFTWARE/HARDWARE REQUIREMENTS :**

OS : Windows 10

RAM : 4GB or above

Codeblocks

## **RESULTS AND DISCUSSION:**

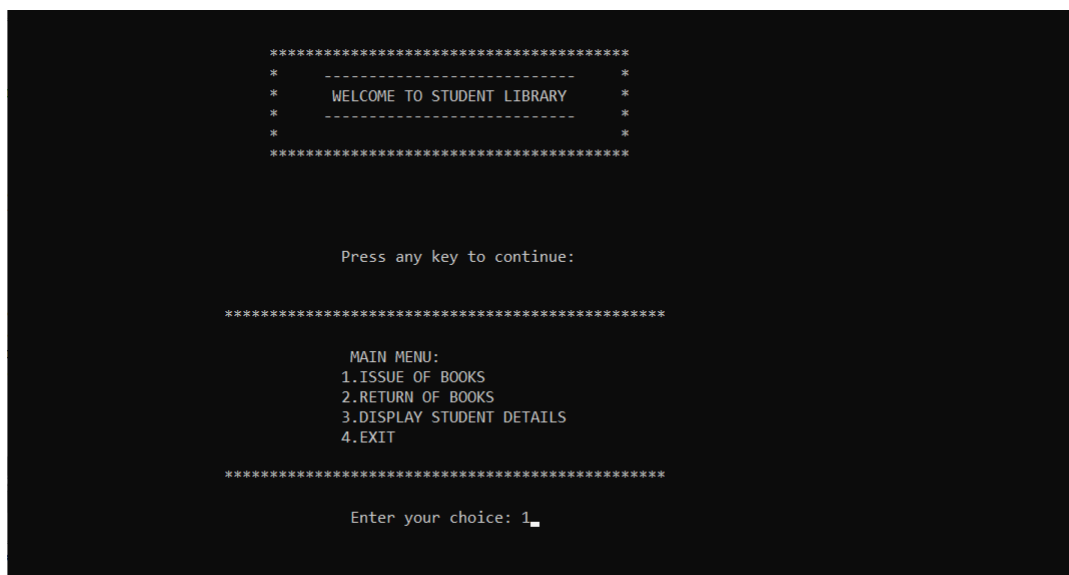
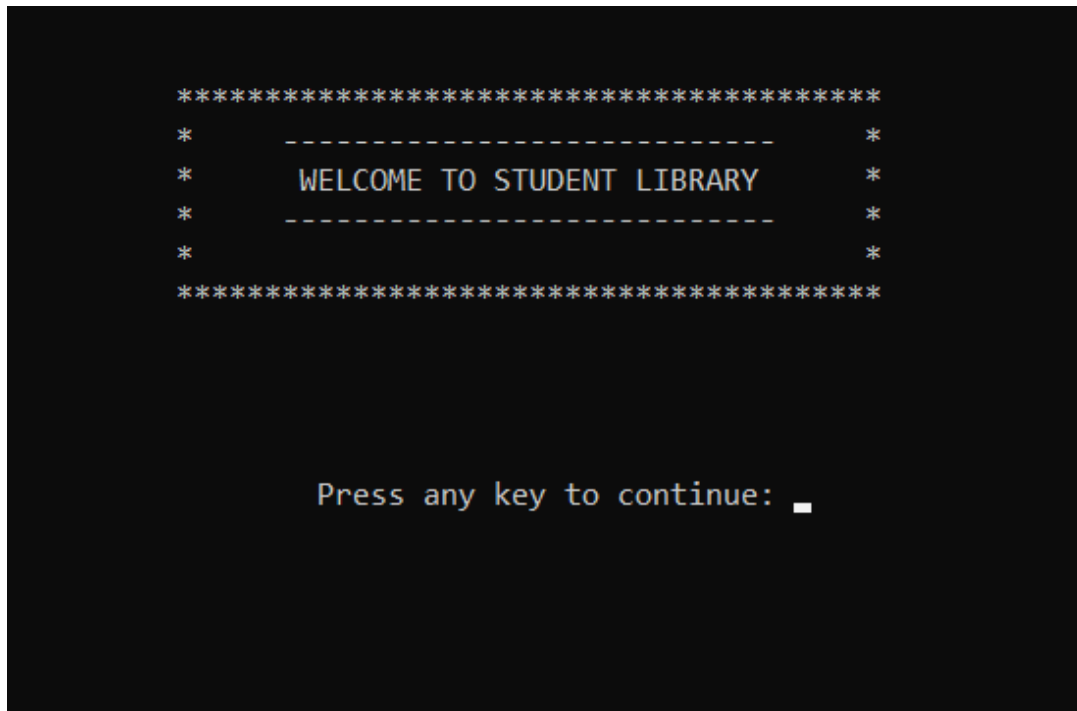
The user of this program can issue the books in the library to students by choosing option (1).taking the details of the student and can also store details of the student.

User can also maintain the details of book returned by choosing option(2).

The user of this program can also maintain the details of students who took books from the library by selecting option(3).

If the user choose option(4) then exit from the portal.

## SCREENSHOT:



\*\*\*\*\* Books Available: \*\*\*\*\*

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Book 1  
Book Title: The Kite Runner  
Name of Author: Khaled Hosseini  
Book ID: 101

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Book 2  
Book Title: To Kill A Mockingbird  
Name of Author: Harper Lee  
Book ID: 102

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Book 3  
Book Title: The Alchemist  
Name of Author: Paulo Coelho  
Book ID: 103

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Book 4  
Book Title: Pride And Prejudice  
Name of Author: Jane Austen  
Book ID: 104

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Book 5  
Book Title: A Tale Of Two Cities  
Name of Author: Charles Dickens  
Book ID: 105

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Enter the Book ID: 102

Enter the Book ID: 102

Enter Student Details:

Enter your Name: Priya

Enter your Email: Priya@gmail.com

Issue of Book ID 102 done successfully!

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Press any key to go to the main menu: \_

```
MAIN MENU:
1.ISSUE OF BOOKS
2.RETURN OF BOOKS
3.DISPLAY STUDENT DETAILS
4.EXIT
```

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Enter your choice: 2

\*\*\*\*\* Books Submission: \*\*\*\*\*

Enter your Book ID: 102

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Student Name: Priya  
Student Email: Priya@gmail.com  
Name of Book Issued: To Kill A Mockingbird  
Harper Lee

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Return of Book ID 102 done successfully!

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Thank you!  
Do visit again!

Press any key to go to the main menu:

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```
MAIN MENU:
1.ISSUE OF BOOKS
2.RETURN OF BOOKS
3.DISPLAY STUDENT DETAILS
4.EXIT
```

\*\*\*\*\*

Enter your choice: 3

\*\*\*\*\* Details of Students: \*\*\*\*\*

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Student Name: priya  
Student Email: priya@gmail.com  
Name of Book Issued: To Kill A Mockingbird  
Harper Lee  
Book ID: 102

---

\*\*\*\*\*

Press any key to go to the main menu: █

```
*****
MAIN MENU:
1.ISSUE OF BOOKS
2.RETURN OF BOOKS
3.DISPLAY STUDENT DETAILS
4.EXIT
*****

Enter your choice: 4

Process returned 1 (0x1)   execution time : 132.448 s
Press any key to continue.
```

## **CONCLUSION:**

This program is made to increase the efficiency of managing the library and managing the issue and return of books.

From this project we got a good idea about c language and data structures and learned about linked list ,pointers, structures etc in the c language and data structures.