Library Management System

Submitted as Mini Project for Special Topics: Programming with C++
Semester III

BACHELOR OF TECHNOLOGY

in

Computer Science and Engineering

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<u>Introduction</u>

This is a Library Management System that allow issue of books to student
and other functionalities.

Description

The Library management system allows:
Students to view books that are available to be issued from the library. They can issue a book from the library.
Note: a student can issue only one book from the library.

Librarians can also view the books that are present in the library.
They can also add new books into the library.
They remove books from the library.

Program starts at the main menu where u choose to login as a student or librarian

```
Library Management

1. Student
2. Librarian
3. Exit

Enter Choice:
```

Logging is as a student displays the follow menu.

```
Welcome Student

1. View Available Books
2. Issue/Return a Book
3. Previous Menu

Enter Choice:_
```

The student can:
1. View books that are available to be issued.


```
---------- 1 ----------

Book Name: Data_structures
Author: Pearson

---------- 2 ----------

Book Name: Chemistry
Author: Pearson

---------- 3 ----------

Book Name: Maths
Author: Pearson


Press any key to return to previous menu...
```

2. Issue a book.


```
Enter Student Name: student
Enter Name of Book you would like to issue: Maths
Thank you for issuing Maths form the Library...

Press any key to return to previous menu...
```

3. Return a book that is already issued

```
Enter Student Name: student
Maths has already been issued to this name.
To issue a new book first return your current book

Would you like to return your book? (y/n): y
Thank you for Returning Maths


Press any key to return to previous menu...
```

Note: A student cannot issue more than 1 book.

```
Enter Student Name: student
Maths has already been issued to this name.
To issue a new book first return your current book

Would you like to return your book? (y/n): n
You have chosen not to return Maths


Press any key to return to previous menu...
```

Logging in as a librarian displays the following menu.


```
Welcome Librarian

1. View Available Books
2. Add Book
3. Remove Book
4. Previous Menu

Enter Choice: _
```

A Librarian can:

1. View books that are present in the library.


```
---------- 1 ----------

Book Name: Data_structures
Author: Pearson

---------- 2 ----------

Book Name: Chemistry
Author: Pearson

---------- 3 ----------

Book Name: Maths
Author: Pearson


Press any key to return to previous menu..._
```

2. Add new books to the library.

```
Enter Name: Physics
Enter Author: Pearson
```

```
---------- 1 ----------

Book Name: Data_structures
Author: Pearson

---------- 2 ----------

Book Name: Chemistry
Author: Pearson

---------- 3 ----------

Book Name: Maths
Author: Pearson

---------- 4 ----------

Book Name: Physics
Author: Pearson


Press any key to return to previous menu...
```

3. remove books from the library

```
Enter Name of Book to Delete: Maths
Book Removed
Press any key to return to previous menu..._
```

```
---------- 1 ----------

Book Name: Data_structures
Author: Pearson

---------- 2 ----------

Book Name: Chemistry
Author: Pearson

---------- 3 ----------

Book Name: Physics
Author: Pearson


Press any key to return to previous menu...
```