

DSA INNOVATIVE ASSIGNMENT

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PROJECT TITLE : LIBRARY MANAGEMENT SYSTEM

PROGRAMMING LANGUAGE : C LANGUAGE

INFORMATION ABOUT PROJECT :

Library management system consists of the management of the books in library, managing things such as issuing a book or submitting a book. It also tells us the last date to submit the books which has been issued. This system is beneficial for both library admin as well as a student.

FUNCTION USED IN THIS SYSTEM :

- Dynamic memory allocation using calloc().
- Doubly linked list.
- String functions.
- Time header file.

ADMIN PANEL :

- To insert the book.
- To delete the book.
- To search the book.
- To display all the books.
- Changing of admin panel password.

STUDENT :

- To search the book.
- To display all books.
- To issue a book.
- To submit a book.
- To display date of submission of book.

DATA STRUCTURE USED : DOUBLY LINKED LIST

OUTPUT :

```
If you are a student press : 1
If you are an admin of the library press : 2
Enter 1 or 2 : 2
```

```
Enter your password : ***
You have entered wrong information
Press 1 : To go the main menu
Press 2 : To enter password again
Press 3 : To change the password
3
Enter your current password : *****
Enter your new password : ****
Your password has been changed successfully.
```

```
If you are a student press : 1
If you are an admin of the library press : 2
Enter 1 or 2 : 2
```

```
Enter your password : ****
Press 1 : To insert the book
Press 2 : To delete the book
Press 3 : To search the book
Press 4 : To display all the books
Press 5 : To go to the main menu
1
```

```
Please enter the name of the book : Physics
```

```
If you are a student press : 1
If you are an admin of the library press : 2
Enter 1 or 2 : 2
```

```
Enter your password : ****
Press 1 : To insert the book
Press 2 : To delete the book
```

Press 1 : To insert the book
Press 2 : To delete the book
Press 3 : To search the book
Press 4 : To display all the books
Press 5 : To go to the main menu

1

Please enter the name of the book : Chemistry

If you are a student press : 1
If you are an admin of the library press : 2
Enter 1 or 2 : 2

Enter your password : ****
Press 1 : To insert the book
Press 2 : To delete the book
Press 3 : To search the book
Press 4 : To display all the books
Press 5 : To go to the main menu

1

Please enter the name of the book : Maths

If you are a student press : 1
If you are an admin of the library press : 2
Enter 1 or 2 : 2

Enter your password : ****
Press 1 : To insert the book
Press 2 : To delete the book
Press 3 : To search the book
Press 4 : To display all the books
Press 5 : To go to the main menu

1

Please enter the name of the book : Biology

If you are a student press : 1
If you are an admin of the library press : 2
Enter 1 or 2 : 2

Enter your password : ****
Press 1 : To insert the book
Press 2 : To delete the book
Press 3 : To search the book
Press 4 : To display all the books
Press 5 : To go to the main menu
1

Please enter the name of the book : English

If you are a student press : 1
If you are an admin of the library press : 2
Enter 1 or 2 : 2

Enter your password : ****
Press 1 : To insert the book
Press 2 : To delete the book
Press 3 : To search the book
Press 4 : To display all the books
Press 5 : To go to the main menu
1

Please enter the name of the book : Computer

If you are a student press : 1
If you are an admin of the library press : 2
Enter 1 or 2 : 1

Press 1 : To search the book
Press 2 : To display all books
Press 3 : To issue a book

Press 4 : To submit a book

2

Your book list is as follows :

Physics

Chemistry

Maths

Biology

English

Computer

If you are a student press : 1

If you are an admin of the library press : 2

Enter 1 or 2 : 1

Press 1 : To search the book

Press 2 : To display all books

Press 3 : To issue a book

Press 4 : To submit a book

1

Please enter the name of the book : Maths

The book entered by you is found at 3 location

If you are a student press : 1

If you are an admin of the library press : 2

Enter 1 or 2 : 1

Press 1 : To search the book

Press 2 : To display all books

Press 3 : To issue a book

Press 4 : To submit a book

Press 3 : To issue a book
Press 4 : To submit a book
3

Enter the name of the book you want to issue : English
Book English is issued to you on : 20/11/2022
You have to submit English book on or before : 4/12/2022

If you are a student press : 1
If you are an admin of the library press : 2
Enter 1 or 2 : 1

Press 1 : To search the book
Press 2 : To display all books
Press 3 : To issue a book
Press 4 : To submit a book
2

Your book list is as follows :

Physics
Chemistry
Maths
Biology
Computer

If you are a student press : 1
If you are an admin of the library press : 2
Enter 1 or 2 : 1

Press 1 : To search the book
Press 2 : To display all books
Press 3 : To issue a book
Press 4 : To submit a book
4

If you are a student press : 1
If you are an admin of the library press : 2
Enter 1 or 2 : 1

Press 1 : To search the book
Press 2 : To display all books
Press 3 : To issue a book
Press 4 : To submit a book
4

Please enter the name of the book : English
Your book has been successfully added.

If you are a student press : 1
If you are an admin of the library press : 2
Enter 1 or 2 : 1

Press 1 : To search the book
Press 2 : To display all books
Press 3 : To issue a book
Press 4 : To submit a book
2

Your book list is as follows :

Physics
Chemistry
Maths
Biology
Computer
English

If you are a student press : 1
If you are an admin of the library press : 2
Enter 1 or 2 :