

# Library Management System

Project Report

## A short summary

Library management system provides user to manage the normal activities done in library , which includes

Add book – a new will be added

Delete book – book will be deleted

Sort book – books will be sorted in alphabetical order

Display book – all book will be displayed

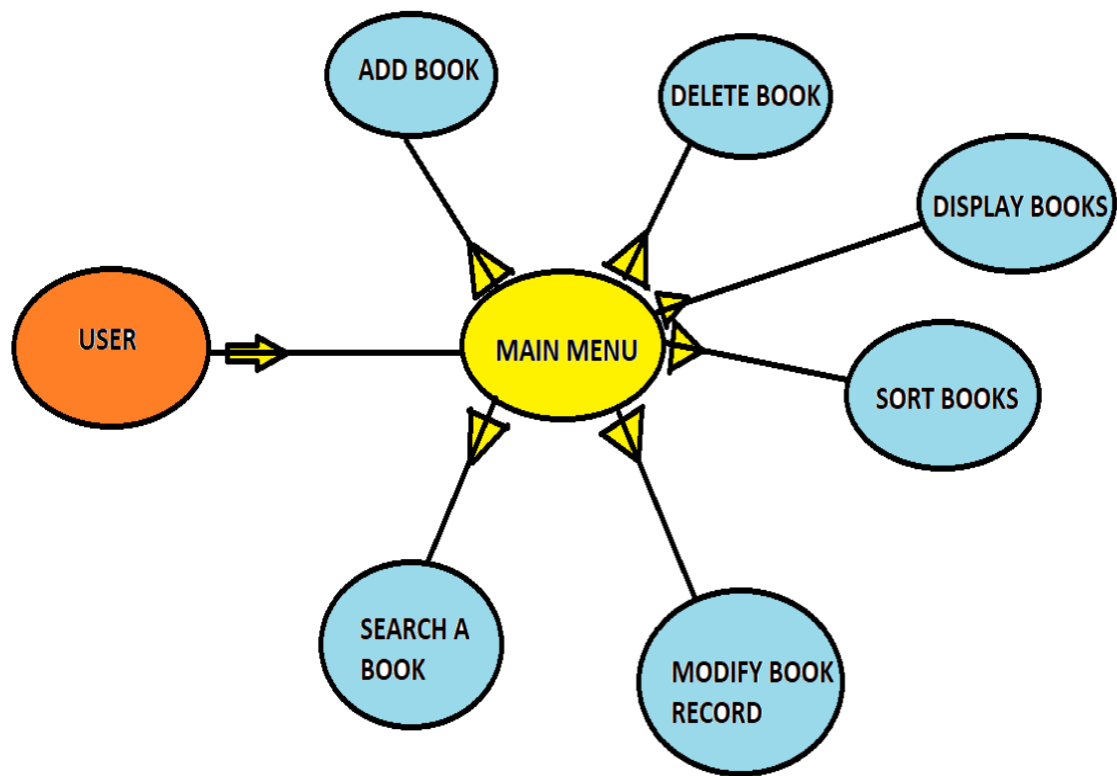
Modify book – update book information

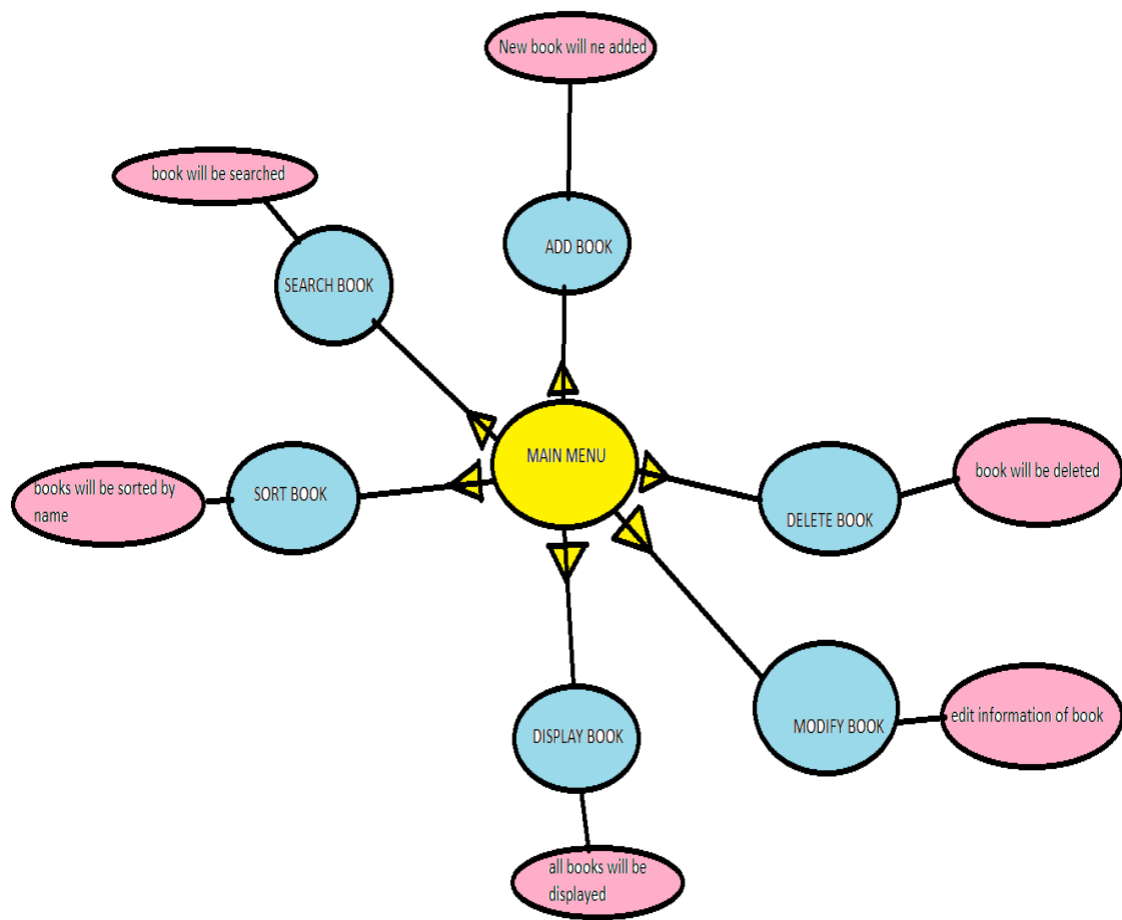
Search book – to search a book

User can choose any of the above and can do the operations

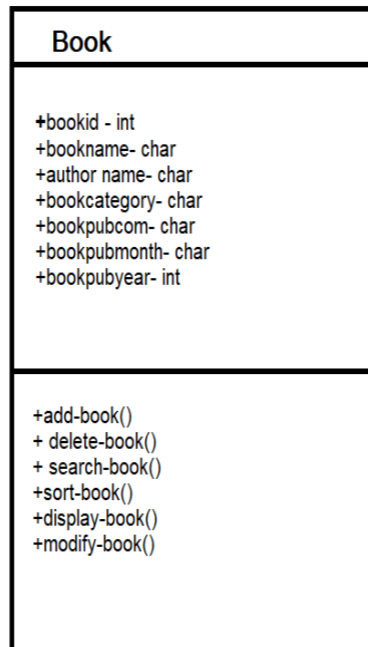
All code is written in C++.

# Use case diagram





## Class diagram



### Description of various functions used in program:-

- **Void addbook()** :- This function is used to add a new book entry in the document .  
It basically consist of adding the name of the book ,unique id of the book in order to find the book easily

because many of the books can have same name but its easy to distinguish between them with the help of unique id and we have to input its author name also and lastly its publishing month.

- **Void searchbook() :-** this function is mainly used to search a particular book details stored within the directory. It mainly consist of searching the book with its name but in case if the names of book are same and with the help of unique id the function finds the book and display all details including its id, name, author name, publishing month in a particular format given below:-

Book id	bookname	author name	publishing month
• -----	-----	-----	-----
• -----	-----	-----	-----
• -----	-----	-----	-----

- **Void display() :-** This function is used to display all the books present in the library. It display the books in a tabular format same as that of searchbook function.

Book id	book name	authername	publishing month
• -----	-----	-----	-----
• -----	-----	-----	-----

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- **Void sortbook()** :- This function is used to sort all the entries stored in the document in ascending or descending order. The purpose of this function is to make user work simpler. After all the entries in the document are sorted it becomes easier for the user to search a particular entry.
- **Void modify\_book** :- This function is used to make changes in a particular entry. The flow of this function goes like:- it searches a particular book with the help of its unique id and then the user can make desirable changes he wanted to like changing its name or its publishing month.
- **Void delete\_book()** :- This function is used to delete a particular book entry from the document. Its basically deletes a particular entry and in order to fill that vacant space all the other entries after that shift one one position upwards in order to fill that vacant space.