



SRM

INSTITUTE OF SCIENCE & TECHNOLOGY

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PROJECT TITLE

LIBRARY MANAGEMENT SYSTEM

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JANUARY 2022

ABSTRACT (300 WORDS)

In this article, we will discuss the approach to create an Library Management System where the user has the following options:

1. Add book information.
2. Display book information.
3. To list all books of a given author.
4. To list the title of specified book.
5. To list the count of books in the library.

If the user tries to add a book then the user must have to provide the below specific Information about the book as:

Enter Book Name =
Enter Author Name =
Enter Pages =
Enter Price =

When the user tries to display all books of a particular author then the user must have to enter the name of the author:

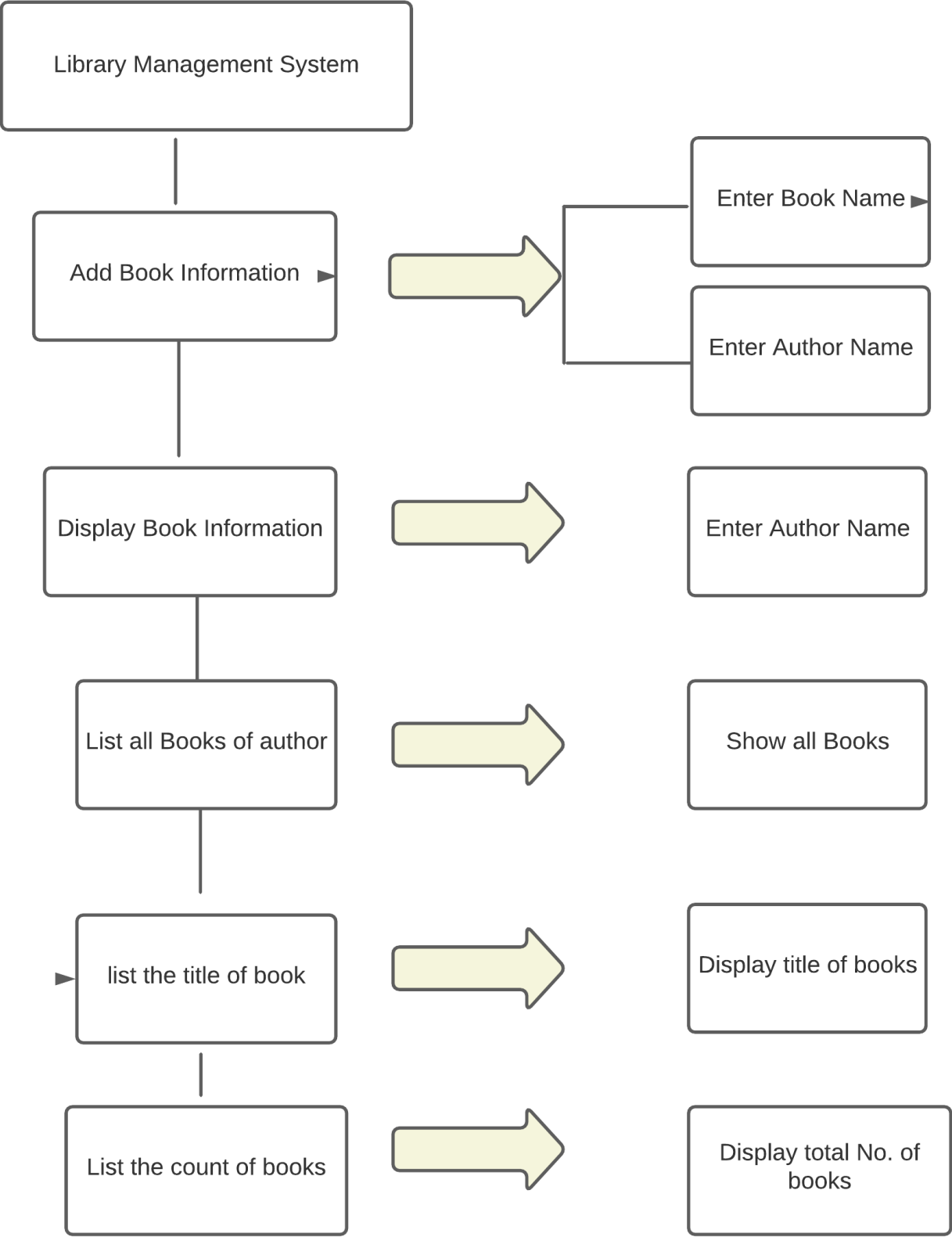
Enter author name =

When the user tries to display the title of specified book then the user must have to enter the name of the book.

Enter book name =

The Library management System must be also capable of counting all the books available in the library.

FLOW CHART



PROGRAM

```
#include<stdio.h>
#include<conio.h>
#include<stdlib.h>
#include<string.h>

struct library
{
char bk_name[30];
char author[30];
int pages;
float price;
};

int main()
{
struct library l[100];
char ar_nm[30],bk_nm[30];
int i,j, keepcount;
i=j=keepcount = 0;

while(j!=6)
{
printf("\n\n          #####\n          ## WELCOME TO
LIBRARY MANAGEMENT SYSTEM ##\n
#####\n");
printf("\n\n1. Add book information\n2. Display book information\n");
printf("3. List all books of given author\n");
printf("4. List the title of specified book\n");
printf("5. List the count of books in the library\n");
printf("6. Exit");

printf ("\n\nEnter one of the above : ");
scanf("%d",&j);

switch (j)
{
/* Add book */
case 1:

printf ("Enter book name = ");
scanf ("%s",l[i].bk_name);

printf ("Enter author name = ");
scanf ("%s",l[i].author);

printf ("Enter pages = ");
scanf ("%d",&l[i].pages);

printf ("Enter price = ");
scanf ("%f",&l[i].price);
keepcount++;
```

```

break;
case 2:
printf("you have entered the following information\n");
for(i=0; i<keepcount; i++)
{
printf ("book name = %s",l[i].bk_name);

printf ("\t author name = %s",l[i].author);

printf ("\t pages = %d",l[i].pages);

printf ("\t price = %f",l[i].price);
}
break;

case 3:
printf ("Enter author name : ");
scanf ("%s",ar_nm);
for (i=0; i<keepcount; i++)
{
if (strcmp(ar_nm, l[i].author) == 0)
printf ("%s %s %d %f",l[i].bk_name,l[i].author,l[i].pages,l[i].price);
}
break;

case 4:
printf ("Enter book name : ");
scanf ("%s",bk_nm);
for (i=0; i<keepcount; i++)
{
if (strcmp(bk_nm, l[i].bk_name) == 0)
printf ("%s \t %s \t %d \t %f",l[i].bk_name,l[i].author,l[i].pages,l[i].price);
}
break;

case 5:
printf("\n No of books in library : %d", keepcount);
break;
case 6:
exit (0);

}
}
return 0;

}

```

RESULTS

The program (Library Management System) has been successfully processed and the output is verified.

SCREENSHOT

The screenshot shows a C++ IDE with a dark theme. The top toolbar includes icons for Run, Debug, Stop, Share, Save, Beautify, and a lightning bolt icon. The language dropdown is set to 'C'. The editor displays the source code for 'main.c'.

```
1 #include<stdio.h>
2 #include<conio.h>
3 #include<stdlib.h>
4 #include<string.h>
5
6 struct library
7 {
8     char bk_name[30];
9     char author[30];
10    int pages;
11    float price;
12 };
13
14 int main()
15 {
16     struct library l[100];
17     char ar_nm[30],bk_nm[30];
18     int i,j,k;
19
20     printf("\n\n");
21     printf("#####\n");
22     printf("# WELCOME TO LIBRARY MANAGEMENT SYSTEM #\n");
23     printf("#####\n");
24
25     printf("1. Add book information\n");
26     printf("2. Display book information\n");
27     printf("3. List all books of given author\n");
28     printf("4. List the title of specified book\n");
29     printf("5. List the count of books in the library\n");
30     printf("6. Exit\n");
```

DECLARATION

I hereby declare that the project work entitled “**LIBRARY MANAGEMENT SYSTEM**”
is an work done by me under the guidance of **Mr. R. Rajkumar** , Assistant Professor Of Department of
Computer Science and Engineering, Kattankulathur Campus, SRM Institute of Science and Technology .
I have to Thank myself and my friends for the great support .

REFERENCES

<https://www.cppbuzz.com/projects/c/library-management-in-c>
<https://www.geeksforgeeks.org/e-library-management-system/>

