
PPS MINI PROJECT

LIBRARY MANAGEMENT SYSTEM

TEAM 1

MECHATRONICS WITH SPECIALIZATION IN ROBOTICS
SECTION B

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ABSTRACT

Our Project is regarding Library Management System where you can do basic library management task like adding the book, view the added book, search the books etc. Library management system helps to provide an easier way to handle files.

The user has the following options:

Add book information, Display book information, To list all books of a given author, To list the count of books in the library and exit.

ALGORITHM:

Step 1: Declare a structure which holds data members

Step 2: declare variables which are used for loop

Step 3: use switch case to work on each module

Step 4: case 1- for Adding book information

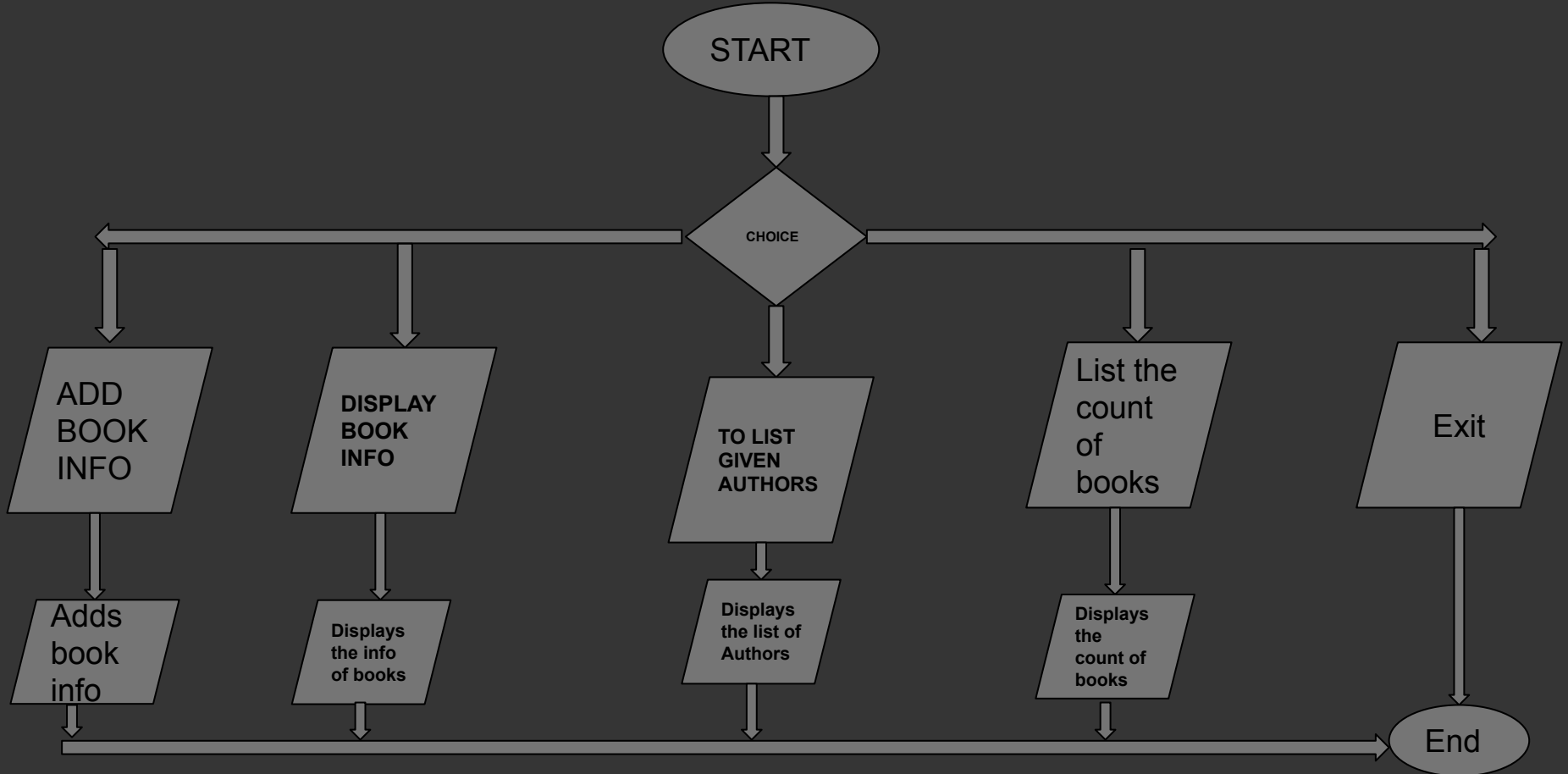
Case 2- for Display book information

Case 3- for Finding number for books in library

Case 4- for Listing all books of a given author

Case 5- for EXIT

FLOWCHART



Program:

```
// C program for the E-library
// Management System
#include <stdio.h>
#include <stdlib.h>
#include <string.h>

// Create Structure of Library
struct library {
    char book_name[20];
    char author[20];
    int pages;
    float price;
};

// Driver Code
int main()
{
    // Create a instance
    struct library lib[100];

    char ar_nm[30], bk_nm[30];

    // Keep the track of the number of
    // of books available in the library
    int i, input, count;

    i = input = count = 0;

    // Iterate the loop
    while (input != 5) {
```

```
printf("\n\n*****#####"  
      "WELCOME TO E-LIBRARY "  
      "#####*****\n");  
printf("\n\n1. Add book infor"  
      "mation\n2. Display "  
      "book information\n");  
printf("3. List all books of "  
      "given author\n");  
printf(  
      "4. List the count of book"  
      "s in the library\n");  
printf("5. Exit");
```

```
// Enter the book details  
printf("\n\nEnter one of "  
      "the above: ");  
scanf("%d", &input);
```

```
// Process the input  
switch (input) {
```

```
    // Add book  
    case 1:
```

```
        printf("Enter book name = ");  
        scanf("%s", lib[i].book_name);
```

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

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

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

```
break;
```

```
// Print book information
```

```
case 2:
```

```
printf("you have entered"  
       " the following "  
       "information\n");  
for (i = 0; i < count; i++) {
```

```
    printf("book name = %s",  
           lib[i].book_name);
```

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

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

```
    printf("\t price = %f",  
           lib[i].price);
```

```
    }  
    break;
```

```
— // Take the author name as input
    case 3:
        printf("Enter author name : ");
        scanf("%s", ar_nm);
        for (i = 0; i < count; i++) {

            if (strcmp(ar_nm,
                       lib[i].author)
                == 0)
                printf("%s %s %d %f",
                       lib[i].book_name,
                       lib[i].author,
                       lib[i].pages,
                       lib[i].price);
        }
        break;

    // Print total count
    case 4:
        printf("\n No of books in "
               "brary : %d",
               count);
        break;
    case 5:
        exit(0);
    }
}
return 0;
}
```


*****##### WELCOME TO E-LIBRARY #####*****

1. Add book information
2. Display book information
3. List all books of given author
4. List the count of books in the library
5. Exit

Enter one of the above : 1
Enter book name = DBMS
Enter author name = Korth
Enter pages = 1360
Enter price = 890

*****##### WELCOME TO E-LIBRARY #####*****

1. Add book information
2. Display book information
3. List all books of given author
4. List the count of books in the library
5. Exit

Enter one of the above : █

Enter one of the above : 2
you have entered the following information
book name = DBMS author name = Korth pages = 1360 price = 890.000000

*****##### WELCOME TO E-LIBRARY #####*****

1. Add book information
2. Display book information
3. List all books of given author
4. List the count of books in the library
5. Exit

Enter one of the above : 3
Enter author name : Korth
DBMS Korth 1360 890.000000

*****##### WELCOME TO E-LIBRARY #####*****

1. Add book information
2. Display book information
3. List all books of given author
4. List the count of books in the library
5. Exit

Enter one of the above :

Enter one of the above : 4

No of books in library : 1

*****##### WELCOME TO E-LIBRARY #####*****

1. Add book information
2. Display book information
3. List all books of given author
4. List the count of books in the library
5. Exit

Enter one of the above : 5

Process exited after 397.7 seconds with return value 0
Press any key to continue . . . █