

CD Library management system

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Index:

- Problem definition
- Problem analysis
- Hardware and software requirements
- Future enhancement
- Source code
- Output
- Bibliography

PROBLEM DEFINITION:

To prepare an interactive menu driven program to establish CD – Library Management System.

C++ Programming gives us a lot of advantages then manual work as well as saves our time. It provides the following advantages for the user to maintain the records

1. It is user friendly.
2. More efficient
3. Accuracy of data
4. Avoid confusion

The main objective of CD DVD Library Management System is to enhance and upgrade the existing system by increasing its efficiency and effectiveness.

The CD DVD Library Management System provides the uses a quick response with very accurate information regarding the users etc. Any details or system in an accurate manner, as and when required. (accuracy)

It is desirable to aim for a system with a minimum cost subject to the condition that it must satisfy all the requirements.

It simplifies the task and reduce the paperwork.

1. Objective:

The main objective of the C++ project on CD DVD library management system is to manage the details of movies, booking, sales, customer, CD DVD ,movies.

The purpose of the program is to build an application program to reduce the manual work for managing the movies, booking, songs, sales.

It tracks all details about sales, customer and CD DVD

2. Uses of c + + programming:

(a) User friendly:

The software CD DVD Library Management System has a very user-friendly interface. Thus, the users will feel very easy to work on it. The software provides accuracy along with a pleasant interface. Make the present manual system more interactive, speedy and user friendly.

(b) Functionalities provided:

To increase efficiency of managing the movies, Booking.

It deals with monitoring the information and transactions of customer.

Editing, adding, and updating of Records is improved which results in proper resource management of movies data.

Integration of all records of CD DVD.

(c) Avoid confusion:

C++ Program helps the user to maintain and use the data without any confusion.

It reduces the uses of manual records.

Efficiency and accuracy of the program also increases.

Limitations of C++ project on CD DVD MANAGEMENT SYSTEM:

The transactions are executed in offline mode, hence online data for movies, booking capture and modification is not possible.

Offline reports of CD DVD cannot be generated due to batch mode execution.

Problem Analysis:

1. Header Files:

#include<iostream.h>

#include<fstream.h>

#include<conio.h>

#include<stdio.h>

#include<process.h>

#include<string.h>

2. Functions involved:

void create_book()

void show_book()

void modify_book()

char* retbno()

void report()

void create_member()

void show_member()

void modify_member()

char* retadmno()

char* retstbno()

int rettoken()

void addtoken()
void write_book()
void write_member()
void display_spb()
void display_sps()
void modify_book()
void modify_member()
void delete_member()
void delete_book()
void display_allb()
void display_allb()
void book_issue()
void book_deposit()
void admin_menu()

Source Code:

```
#include<iostream.h>
#include<fstream.h>
#include<conio.h>
#include<stdio.h>
#include<process.h>
#include<string.h>
class book
{
    char bno[50];
    char bname[50];
    char aname[50];
public:
    void create_book()
    {
        cout<<"NEW BOOK ENTRY";
        cout<<"Enter The book no.";
        cin>>bno;
        cout<<"Enter The Name of The Book ";
        gets(bname);
        cout<<"Enter The Author's Name ";
        gets(aname);
    }

    void show_book()
    {
        cout<<"Book no:"<<bno;
        cout<<"Book Name:";
        puts(bname);
        cout<<"Author Name:";
        puts(aname);
    }

    void modify_book()
    {
        cout<<"Book no:"<<bno;
        cout<<"Modify Book Name:";
        gets(bname);
        cout<<"Modify Author's Name of Book:";
        gets(aname);
    }

    char* retbno()
    {
        return bno;
    }

    void report()
    {cout<<bno<<endl<<bname<<endl<<aname<<endl;}
```



```
};
```

```
class member
```

```
{
```

```
    char admno[50];
```

```
    char name[50];
```

```
    char stbno[50];
```

```
    int token;
```

```
public:
```

```
    void create_member()
```

```
    {
```

```
        clrscr();
```

```
        cout<<"NEW MEMBER ENTRY";
```

```
        cout<<"Enter The admission no.";
```

```
        cin>>admno;
```

```
        cout<<"Enter The Name of The Student";
```

```
        gets(name);
```

```
        token=0;
```

```
        stbno[0]='\0';
```

```
        cout<<"Student Record Created";
```

```
    }
```

```
    void show_member()
```

```
    {
```

```
        cout<<"Admission no.: "<<admno;
```

```
        cout<<"Member Name:";
```

```
        puts(name);
```

```
        cout<<"No of Book issued:"<<token;
```

```
        if(token==1)
```

```
            cout<<"Book No"<<stbno;
```

```
    }
```

```
    void modify_member()
```

```
    {
```

```
        cout<<"Admission no.:"<<admno;
```

```
        cout<<"Modify Member Name:";
```

```
        gets(name);
```

```
    }
```

```
    char* retadmno()
```

```
    {
```

```
        return admno;
```

```
    }
```

```
    char* retstbno()
```

```
    {
```

```
        return stbno;
```

```
    }
```

```
    int rettoken()
```

```
    {
```

```

        return token;
    }
    void addtoken()
    {token=1;}

    void resettoken()
    {token=0;}

    void getstbno(char t[])
    {
        strcpy(stbno,t);
    }

    void report()
    {cout<<endl<<admno<<endl<<name<<endl<<token<<endl;}

};
fstream fp,fp1;
book bk;
member st;

void write_book()
{
    char ch;
    fp.open("book.dat",ios::out|ios::app);
    do
    {
        clrscr();
        bk.create_book();
        fp.write((char*)&bk,sizeof(book));
        cout<<"Do you want to add more records(y/n?)";
        cin>>ch;
    }while(ch=='y');
    fp.close();
}

void write_member()
{
    char ch;
    fp.open("member.dat",ios::out|ios::app);
    do
    {
        st.create_member();
        fp.write((char*)&st,sizeof(member));
        cout<<"do you want to add more record..(y/n?)";
        cin>>ch;
    }while(ch=='y');
    fp.close();
}

void display_spb(char n[])
{
    cout<<"BOOK DETAILS";

```

```

        int flag=0;
        fp.open("book.dat",ios::in);
        while(fp.read((char*)&bk,sizeof(book)))
        {
            if(strcmpi(bk.retbno(),n)==0)
            {
                bk.show_book();
                flag=1;
            }
        }

        fp.close();
        if(flag==0)
            cout<<"Book does not exist";
        getch();
    }

void display_sps(char n[])
{
    cout<<"MEMBER DETAILS";
    int flag=0;
    fp.open("member.dat",ios::in);
    while(fp.read((char*)&st,sizeof(member)))
    {
        if((strcmpi(st.retadmno(),n)==0))
        {
            st.show_member();
            flag=1;
        }
    }

    fp.close();
    if(flag==0)
        cout<<"Member does not exist";
    getch();
}

void modify_book()
{
    char n[50];
    int found=0;
    clrscr();
    cout<<"MODIFY BOOK REOCORD";
    cout<<"Enter The book no. of The book";
    cin>>n;
    fp.open("book.dat",ios::in|ios::out);
    while(fp.read((char*)&bk,sizeof(book)) && found==0)
    {
        if(strcmpi(bk.retbno(),n)==0)
        {
            bk.show_book();
            cout<<"Enter The New Details of book"<<endl;

```

```

        bk.modify_book();
        int pos=-1*sizeof(bk);
        fp.seekp(pos,ios::cur);
        fp.write((char*)&bk,sizeof(book));
        cout<<"Record Updated";
        found=1;
    }
}

fp.close();
if(found==0)
    cout<<"Record Not Found";
getch();
}

void modify_member()
{
    char n[50];
    int found=0;
    clrscr();
    cout<<"MODIFY MEMBER RECORD";
    cout<<"Enter The admission no. of the member";
    cin>>n;
    fp.open("member.dat",ios::in|ios::out);
    while(fp.read((char*)&st,sizeof(member))&&found==0)
    {
        if(strcmpi(st.retadmno(),n)==0)
        {
            st.show_member();
            cout<<"Enter The New Details of member"<<endl;
            st.modify_member();
            int pos=-1*sizeof(st);
            fp.seekp(pos,ios::cur);
            fp.write((char*)&st,sizeof(member));
            cout<<"Record Updated";
            found=1;
        }
    }

    fp.close();
    if(found==0)
        cout<<"Record Not Found";
    getch();
}

void delete_member()
{
    char n[50];
    int flag=0;
    clrscr();
    cout<<"DELETE MEMBER";
    cout<<"Enter The admission no. of the member You Want To
Delete";

```

```

        cin>>n;
        fp.open("member.dat",ios::in|ios::out);
        fstream fp2;
        fp2.open("Temp.dat",ios::out);
        fp.seekg(0,ios::beg);
        while(fp.read((char*)&st,sizeof(member)))
        {
            if(strcmpi(st.retadmno(),n)!=0)
                fp2.write((char*)&st,sizeof(member));
            else
                flag=1;
        }

        fp2.close();
        fp.close();
        remove("member.dat");
        rename("Temp.dat","member.dat");
        if(flag==1)
            cout<<"Record Deleted";
        else
            cout<<"Record not found";
        getch();
    }
void delete_book()
{
    char n[50];
    clrscr();
    cout<<"DELETE BOOK";
    cout<<"Enter The Book no. of the Book You Want To Delete:";
    cin>>n;
    fp.open("book.dat",ios::in|ios::out);
    fstream fp2;
    fp2.open("Temp.dat",ios::out);
    fp.seekg(0,ios::beg);
    while(fp.read((char*)&bk,sizeof(book)))
    {
        if(strcmpi(bk.retbno(),n)!=0)
        {
            fp2.write((char*)&bk,sizeof(book));
        }
    }

    fp2.close();
    fp.close();
    remove("book.dat");
    rename("Temp.dat","book.dat");
    cout<<"Record Deleted";
    getch();
}
void display_all()
{
    clrscr();
    fp.open("member.dat",ios::in);

```

```

        if(!fp)
        {
            cout<<"ERROR FILE COULD NOT BE OPEN";
            getch();
            return;
        }

        cout<<"MEMBER LIST";
        cout<<endl;
        cout<<"Admission No."<<endl<<"Name"<<endl<<"Book Issued";
        cout<<endl;

        while(fp.read((char*)&st,sizeof(member)))
        {
            st.report();
        }

        fp.close();
        getch();
    }
void display_allb()
{
    clrscr();
    fp.open("book.dat",ios::in);
    if(!fp)
    {
        cout<<"ERROR FILE COULD NOT BE OPEN";
        getch();
        return;
    }

    cout<<"Book LIST";
    cout<<endl;
    cout<<"Book Number"<<endl<<"Book Name"<<endl<<"Author";
    cout<<endl;

    while(fp.read((char*)&bk,sizeof(book)))
    {
        bk.report();
    }
    fp.close();
    getch();
}
void book_issue()
{
    char sn[50],bn[50];
    int found=0,flag=0;
    clrscr();
    cout<<"BOOK ISSUE";
    cout<<"Enter The member's admission no.";
    cin>>sn;
    fp.open("member.dat",ios::in|ios::out);
    fp1.open("book.dat",ios::in|ios::out);

```

```

while(fp.read((char*)&st,sizeof(member))&&found==0)
{
    if(strcmpi(st.retadmno(),sn)==0)
    {
        found=1;
        if(st.rettoken()==0)
        {
            cout<<"Enter the book no. ";
            cin>>bn;

while(fp1.read((char*)&bk,sizeof(book))&&flag==0)
{
            if(strcmpi(bk.retbno(),bn)==0)
            {
                bk.show_book();
                flag=1;
                st.addtoken();
                st.getstbno(bk.retbno());
                int pos=-1*sizeof(st);
                fp.seekp(pos,ios::cur);

                fp.write((char*)&st,sizeof(member));
                cout<<"Book issued successfully Please Note: Write current date
in backside of book and submit within 15 days fine Rs. 1 for each
day after 15 days period";
            }
        }
        if(flag==0)
            cout<<"Book no does not exist";
    }
    else
        cout<<"You have not returned the last
book ";

}

}
if(found==0)
    cout<<"Member record does not exist";
getch();
fp.close();
fp1.close();
}
void book_deposit()
{
    char sn[50],bn[50];
    int found=0,flag=0,days,fine;
    clrscr();
    cout<<"BOOK DEPOSIT";
    cout<<"Enter The member's admission no.";
    cin>>sn;
    fp.open("member.dat",ios::in|ios::out);
    fp1.open("book.dat",ios::in|ios::out);
    while(fp.read((char*)&st,sizeof(member))&&found==0)

```

```

        {
            if(strcmpi(st.retadmno(),sn)==0)
            {
                found=1;
                if(st.rettoken()==1)
                {
                    while(fp1.read((char*)&bk,sizeof(book))&& flag==0)
                    {
                        if(strcmpi(bk.retbno(),st.retstbno())==0)
                        {
                            bk.show_book();
                            flag=1;
                            cout<<"Book deposited in no. of days";
                            cin>>days;
                            if(days>15)
                            {
                                fine=(days-15)*1;
                                cout<<"Fine to be deposited Rs."<<fine;
                            }

                            st.resettoken();
                            int pos=-1*sizeof(st);
                            fp.seekp(pos,ios::cur);
                            fp.write((char*)&st,sizeof(member));
                            cout<<"Book deposited successfully";
                        }
                    }
                    if(flag==0)
                        cout<<"Book no does not exist";
                }
                else
                    cout<<"No book is issued please check";
            }
        }
        if(found==0)
            cout<<"Member record not exist";
        getch();
        fp.close();
        fp1.close();
    }
    void search()
    {
        char sn[50],bn[50];
        int found=0,flag=0;
        cout<<"enter admission number";
        cin>>sn;
        fp.open("member.dat",ios::in|ios::out);
        fp1.open("book.dat",ios::in|ios::out);
        while(fp.read((char*)&st,sizeof(member))&&found==0)
        {
            if(strcmpi(st.retadmno(),sn)==0)
            {
                found=1;
                st.show_member();
            }
        }
    }
}

```



```

while(fp1.read((char*)bk,sizeof(book))&&flag==0)
{
    if(strcmpi(bk.retbno(),st.retstbno())==0)
    { bk.show_book();
      flag=1;
    }
}
if(flag==0)
cout<<"book not found";
}
}
if(found==0)
cout<<"member does not exist";
getch();
fp.close();
fp1.close();
}
void admin_menu()
{
    clrscr();
    int ch2;
    cout<<"ADMINISTRATOR MENU"<<endl;
    cout<<"1.CREATE MEMBER RECORD"<<endl;
    cout<<"2.DISPLAY ALL MEMBER RECORD"<<endl;
    cout<<"3.DISPLAY SPECIFIC MEMBER RECORD "<<endl;
    cout<<"4.MODIFY MEMBER RECORD"<<endl;
    cout<<"5.DELETE MEMBER RECORD"<<endl;
    cout<<"6.CREATE BOOK "<<endl;
    cout<<"7.DISPLAY ALL BOOKS "<<endl;
    cout<<"8.DISPLAY SPECIFIC BOOK "<<endl;
    cout<<"9.MODIFY BOOK "<<endl;
    cout<<"10.DELETE BOOK "<<endl;
    cout<<"11.BACK TO MAIN MENU"<<endl;
    cout<<"12.SEARCH MEMBER AND BOOK"<<endl;
    cout<<"Please Enter Your Choice (1-12)"<<endl;
    cin>>ch2;
    switch(ch2)
    {
        case 1: write_member();break;
        case 2: display_all();break;
        case 3:char num[50];
                cout<<"Please Enter The Admission No. ";
                cin>>num;
                display_sps(num);
                break;
        case 4: modify_member();break;
        case 5: delete_member();break;
        case 6: write_book();break;
        case 7: display_allb();break;
        case 8: {
                char num[50];
                cout<<"Please Enter The book No. ";
                cin>>num;
            }
    }
}

```

```

        display_spb(num);
        break;
    }
    case 9: modify_book();break;
    case 10: delete_book();break;
    case 11: return;
    case 12:search();
    default:cout<<"Invalid";
}

}

void main()
{
    int ch;
    do
    {
        clrscr();
        cout<<"MAIN MENU";
        cout<<"1.BOOK ISSUE";
        cout<<"2.BOOK DEPOSIT";
        cout<<"3.ADMINISTRATOR MENU";
        cout<<"4.EXIT";
        cout<<"Please Select Your Option (1-4)";
        cin>>ch;
        switch(ch)
        {
            case 1:clrscr();
                    book_issue();
                    break;
            case 2:book_deposit();
                    break;
            case 3:admin_menu();
                    break;
            case 4:exit(0);
        }
    }while(ch!='4');
}

```

Output:

```
MAIN MENU1.CD ISSUE2.CD DEPOSIT3.ADMINISTRATOR MENU4.EXITPlease Select Your Option (1-4)
```

Activate Windows
Go to Settings to activate Windows.

```
MAIN MENU1.CD ISSUE2.CD DEPOSIT3.ADMINISTRATOR MENU4.EXITPlease Select Your Option (1-4)3
```

Activate Windows
Go to Settings to activate Windows.

```
ADMINISTRATOR MENU
1.CREATE MEMBER RECORD
2.DISPLAY ALL MEMBER RECORD
3.DISPLAY SPECIFIC MEMBER RECORD
4.MODIFY MEMBER RECORD
5.DELETE MEMBER RECORD
6.CREATE CD
7.DISPLAY ALL CD'S
8.DISPLAY SPECIFIC CD
9.MODIFY CD
10.DELETE CD
11.BACK TO MAIN MENU
12.SEARCH MEMBER AND CD
Please Enter Your Choice (1-12)
```

—

Activate Windows
Go to Settings to activate Windows.

```
ADMINISTRATOR MENU
1.CREATE MEMBER RECORD
2.DISPLAY ALL MEMBER RECORD
3.DISPLAY SPECIFIC MEMBER RECORD
4.MODIFY MEMBER RECORD
5.DELETE MEMBER RECORD
6.CREATE CD
7.DISPLAY ALL CD'S
8.DISPLAY SPECIFIC CD
9.MODIFY CD
10.DELETE CD
11.BACK TO MAIN MENU
12.SEARCH MEMBER AND CD
Please Enter Your Choice (1-12)
1
```

Activate Windows
Go to Settings to activate Windows.

```
NEW MEMBER ENTRYEnter The admission no.1
Enter The Name of The Studentbalaji
Student Record Createddo you want to add more record..(y/n?)y
```

Activate Windows
Go to Settings to activate Windows.

```
NEW MEMBER ENTRYEnter The admission no.2
Enter The Name of The Studentkameshwara
Student Record Createddo you want to add more record..(y/n?)y_
```

Activate Windows
Go to Settings to activate Windows.

```
NEW MEMBER ENTRYEnter The admission no.3
Enter The Name of The Studentashwin
Student Record Createddo you want to add more record..(y/n?)y_
```

Activate Windows
Go to Settings to activate Windows.

```
NEW MEMBER ENTRYEnter The admission no.4
Enter The Name of The Studenttulsi narayanan
Student Record Createddo you want to add more record..(y/n?)n
```

Activate Windows
Go to Settings to activate Windows.

MAIN MENU1.CD ISSUE2.CD DEPOSIT3.ADMINISTRATOR MENU4.EXITPlease Select Your Option (1-4)3_

Activate Windows
Go to Settings to activate Windows.

ADMINISTRATOR MENU
1.CREATE MEMBER RECORD
2.DISPLAY ALL MEMBER RECORD
3.DISPLAY SPECIFIC MEMBER RECORD
4.MODIFY MEMBER RECORD
5.DELETE MEMBER RECORD
6.CREATE CD
7.DISPLAY ALL CD'S
8.DISPLAY SPECIFIC CD
9.MODIFY CD
10.DELETE CD
11.BACK TO MAIN MENU
12.SEARCH MEMBER AND CD
Please Enter Your Choice (1-12)
2_

Activate Windows
Go to Settings to activate Windows.

MEMBER LIST
Admission No.
Name
CD Issued

1
balaji
0

2
kameshwara
0

3
ashwin
0

4
tulsi narayanan
0

Activate Windows
Go to Settings to activate Windows.

MAIN MENU1.CD ISSUE2.CD DEPOSIT3.ADMINISTRATOR MENU4.EXITPlease Select Your Option (1-4)3_

Activate Windows
Go to Settings to activate Windows.


```
ADMINISTRATOR MENU
1.CREATE MEMBER RECORD
2.DISPLAY ALL MEMBER RECORD
3.DISPLAY SPECIFIC MEMBER RECORD
4.MODIFY MEMBER RECORD
5.DELETE MEMBER RECORD
6.CREATE CD
7.DISPLAY ALL CD'S
8.DISPLAY SPECIFIC CD
9.MODIFY CD
10.DELETE CD
11.BACK TO MAIN MENU
12.SEARCH MEMBER AND CD
Please Enter Your Choice (1-12)
3
```

Activate Windows
Go to Settings to activate Windows.

```
ADMINISTRATOR MENU
1.CREATE MEMBER RECORD
2.DISPLAY ALL MEMBER RECORD
3.DISPLAY SPECIFIC MEMBER RECORD
4.MODIFY MEMBER RECORD
5.DELETE MEMBER RECORD
6.CREATE CD
7.DISPLAY ALL CD'S
8.DISPLAY SPECIFIC CD
9.MODIFY CD
10.DELETE CD
11.BACK TO MAIN MENU
12.SEARCH MEMBER AND CD
Please Enter Your Choice (1-12)
3
Please Enter The Admission No. 1
MEMBER DETAILSAdmission no.: 1Member Name:balaji
No of CD issued:0_
```

Activate Windows
Go to Settings to activate Windows.

MAIN MENU1.CD ISSUE2.CD DEPOSIT3.ADMINISTRATOR MENU4.EXITPlease Select Your Option (1-4)3_

Activate Windows
Go to Settings to activate Windows.

ADMINISTRATOR MENU
1.CREATE MEMBER RECORD
2.DISPLAY ALL MEMBER RECORD
3.DISPLAY SPECIFIC MEMBER RECORD
4.MODIFY MEMBER RECORD
5.DELETE MEMBER RECORD
6.CREATE CD
7.DISPLAY ALL CD'S
8.DISPLAY SPECIFIC CD
9.MODIFY CD
10.DELETE CD
11.BACK TO MAIN MENU
12.SEARCH MEMBER AND CD
Please Enter Your Choice (1-12)
4

Activate Windows
Go to Settings to activate Windows.

```
MODIFY MEMBER RECORDEnter The admission no. of the member1
Admission no.: 1Member Name:R balBalaji
No of CD issued:0Enter The New Details of member
Admission no.:1Modify Member Name:R Balaji
Record Updated_
```

Activate Windows
Go to Settings to activate Windows.

```
MAIN MENU1.CD ISSUE2.CD DEPOSIT3.ADMINISTRATOR MENU4.EXITPlease Select Your Opti
on (1-4)3_
```

Activate Windows
Go to Settings to activate Windows.

```
ADMINISTRATOR MENU
1.CREATE MEMBER RECORD
2.DISPLAY ALL MEMBER RECORD
3.DISPLAY SPECIFIC MEMBER RECORD
4.MODIFY MEMBER RECORD
5.DELETE MEMBER RECORD
6.CREATE CD
7.DISPLAY ALL CD'S
8.DISPLAY SPECIFIC CD
9.MODIFY CD
10.DELETE CD
11.BACK TO MAIN MENU
12.SEARCH MEMBER AND CD
Please Enter Your Choice (1-12)
5_
```

Activate Windows
Go to Settings to activate Windows.

```
DELETE MEMBEREnter The admission no. of the member You Want To      Deleted
Record Deleted
```

Activate Windows
Go to Settings to activate Windows.

MAIN MENU1.CD ISSUE2.CD DEPOSIT3.ADMINISTRATOR MENU4.EXITPlease Select Your Option (1-4)3_

Activate Windows
Go to Settings to activate Windows.

ADMINISTRATOR MENU
1.CREATE MEMBER RECORD
2.DISPLAY ALL MEMBER RECORD
3.DISPLAY SPECIFIC MEMBER RECORD
4.MODIFY MEMBER RECORD
5.DELETE MEMBER RECORD
6.CREATE CD
7.DISPLAY ALL CD'S
8.DISPLAY SPECIFIC CD
9.MODIFY CD
10.DELETE CD
11.BACK TO MAIN MENU
12.SEARCH MEMBER AND CD
Please Enter Your Choice (1-12)
2_

Activate Windows
Go to Settings to activate Windows.

MEMBER LIST
Admission No.
Name
CD Issued

1		
R Bala ji		
0		
2		
kameshwara		
0		
3		
ashwin		
0		
-		

Activate Windows
Go to Settings to activate Windows.

MAIN MENU1.CD ISSUE2.CD DEPOSIT3.ADMINISTRATOR MENU4.EXITPlease Select Your Option (1-4)3_

Activate Windows
Go to Settings to activate Windows.

```
ADMINISTRATOR MENU
1.CREATE MEMBER RECORD
2.DISPLAY ALL MEMBER RECORD
3.DISPLAY SPECIFIC MEMBER RECORD
4.MODIFY MEMBER RECORD
5.DELETE MEMBER RECORD
6.CREATE CD
7.DISPLAY ALL CD'S
8.DISPLAY SPECIFIC CD
9.MODIFY CD
10.DELETE CD
11.BACK TO MAIN MENU
12.SEARCH MEMBER AND CD
Please Enter Your Choice (1-12)
6
```

Activate Windows
Go to Settings to activate Windows.

```
NEW CD ENTRYEnter The CD no.10
Enter The Name of The CD music
Enter The Author's Name AR Rahman
Do you want to add more records(y/n?)y_
```

Activate Windows
Go to Settings to activate Windows.

```
NEW CD ENTRYEnter The CD no.20
Enter The Name of The CD dance
Enter The Author's Name MJ
Do you want to add more records(y/n?)y
```

Activate Windows
Go to Settings to activate Windows.

```
NEW CD ENTRYEnter The CD no.30
Enter The Name of The CD computer science
Enter The Author's Name sumita arora
Do you want to add more records(y/n?)n_
```

Activate Windows
Go to Settings to activate Windows.

MAIN MENU1.CD ISSUE2.CD DEPOSIT3.ADMINISTRATOR MENU4.EXITPlease Select Your Option (1-4)3_

Activate Windows
Go to Settings to activate Windows.

ADMINISTRATOR MENU
1.CREATE MEMBER RECORD
2.DISPLAY ALL MEMBER RECORD
3.DISPLAY SPECIFIC MEMBER RECORD
4.MODIFY MEMBER RECORD
5.DELETE MEMBER RECORD
6.CREATE CD
7.DISPLAY ALL CD'S
8.DISPLAY SPECIFIC CD
9.MODIFY CD
10.DELETE CD
11.BACK TO MAIN MENU
12.SEARCH MEMBER AND CD
Please Enter Your Choice (1-12)
7_

Activate Windows
Go to Settings to activate Windows.

```
CD LIST
CD Number
CD Name
Author
10
music
AR Rahman
20
dance
MJ
30
computer science
sumita arora
-
```

Activate Windows
Go to Settings to activate Windows.

```
MAIN MENU1.CD ISSUE2.CD DEPOSIT3.ADMINISTRATOR MENU4.EXITPlease Select Your Option (1-4)3_
```

Activate Windows
Go to Settings to activate Windows.

```
ADMINISTRATOR MENU
1.CREATE MEMBER RECORD
2.DISPLAY ALL MEMBER RECORD
3.DISPLAY SPECIFIC MEMBER RECORD
4.MODIFY MEMBER RECORD
5.DELETE MEMBER RECORD
6.CREATE CD
7.DISPLAY ALL CD'S
8.DISPLAY SPECIFIC CD
9.MODIFY CD
10.DELETE CD
11.BACK TO MAIN MENU
12.SEARCH MEMBER AND CD
Please Enter Your Choice (1-12)
8
Please Enter The CD No. 20
CD DETAILS CD no:20 CD Name:dance
Author Name:MJ
```

Activate Windows
Go to Settings to activate Windows.

```
MAIN MENU1.CD ISSUE2.CD DEPOSIT3.ADMINISTRATOR MENU4.EXITPlease Select Your Option (1-4)3_
```

Activate Windows
Go to Settings to activate Windows.

```
ADMINISTRATOR MENU
1.CREATE MEMBER RECORD
2.DISPLAY ALL MEMBER RECORD
3.DISPLAY SPECIFIC MEMBER RECORD
4.MODIFY MEMBER RECORD
5.DELETE MEMBER RECORD
6.CREATE CD
7.DISPLAY ALL CD'S
8.DISPLAY SPECIFIC CD
9.MODIFY CD
10.DELETE CD
11.BACK TO MAIN MENU
12.SEARCH MEMBER AND CD
Please Enter Your Choice (1-12)
9_
```

Activate Windows
Go to Settings to activate Windows.

```
MODIFY CD REOCRDEnter The CD no. of The CD10
CD no:10CD Name:music
Author Name:AR Rahman
Enter The New Details of CD
CD no:10Modify CD Name:maths
Modify Author's Name of CD:rd sharma
Record Updated
```

Activate Windows
Go to Settings to activate Windows.

MAIN MENU1.CD ISSUE2.CD DEPOSIT3.ADMINISTRATOR MENU4.EXITPlease Select Your Option (1-4)3_

Activate Windows
Go to Settings to activate Windows.

ADMINISTRATOR MENU
1.CREATE MEMBER RECORD
2.DISPLAY ALL MEMBER RECORD
3.DISPLAY SPECIFIC MEMBER RECORD
4.MODIFY MEMBER RECORD
5.DELETE MEMBER RECORD
6.CREATE CD
7.DISPLAY ALL CD'S
8.DISPLAY SPECIFIC CD
9.MODIFY CD
10.DELETE CD
11.BACK TO MAIN MENU
12.SEARCH MEMBER AND CD
Please Enter Your Choice (1-12)
10

Activate Windows
Go to Settings to activate Windows.

DELETE CDEnter The CD no. of the CD You Want To Delete:30
Record Deleted_

Activate Windows
Go to Settings to activate Windows.

MAIN MENU1.CD ISSUE2.CD DEPOSIT3.ADMINISTRATOR MENU4.EXITPlease Select Your Option (1-4)1

Activate Windows
Go to Settings to activate Windows.

CD ISSUEEnter The member's admission no.1
Enter the CD no. 10
CD no:10CD Name:maths
Author Name:rd sharma
CD issued successfully Please Note: Write current date in backside of CD and submit within 15 days fine Rs. 1 for each day after 15 days period_

Activate Windows
Go to Settings to activate Windows.

MAIN MENU1.CD ISSUE2.CD DEPOSIT3.ADMINISTRATOR MENU4.EXITPlease Select Your Option (1-4)1

Activate Windows
Go to Settings to activate Windows.

CD ISSUEEnter The member's admission no.2
Enter the CD no. 20
CD no:20CD Name:dance
Author Name:MJ
CD issued successfully Please Note: Write current date in backside of CD and submit within 15 days fine Rs. 1 for each day after 15 days period

Activate Windows
Go to Settings to activate Windows.

MAIN MENU1.CD ISSUE2.CD DEPOSIT3.ADMINISTRATOR MENU4.EXITPlease Select Your Option (1-4)3_

Activate Windows
Go to Settings to activate Windows.


```
ADMINISTRATOR MENU
1.CREATE MEMBER RECORD
2.DISPLAY ALL MEMBER RECORD
3.DISPLAY SPECIFIC MEMBER RECORD
4.MODIFY MEMBER RECORD
5.DELETE MEMBER RECORD
6.CREATE CD
7.DISPLAY ALL CD'S
8.DISPLAY SPECIFIC CD
9.MODIFY CD
10.DELETE CD
11.BACK TO MAIN MENU
12.SEARCH MEMBER AND CD
Please Enter Your Choice (1-12)
12_
```

Activate Windows
Go to Settings to activate Windows.

```
ADMINISTRATOR MENU
1.CREATE MEMBER RECORD
2.DISPLAY ALL MEMBER RECORD
3.DISPLAY SPECIFIC MEMBER RECORD
4.MODIFY MEMBER RECORD
5.DELETE MEMBER RECORD
6.CREATE CD
7.DISPLAY ALL CD'S
8.DISPLAY SPECIFIC CD
9.MODIFY CD
10.DELETE CD
11.BACK TO MAIN MENU
12.SEARCH MEMBER AND CD
Please Enter Your Choice (1-12)
12
enter admission number1
Admission no.: 1Member Name:R Balaji
No of CD issued:1CD No10
CD no:10CD Name:maths
Author Name:rd sharma
```

Activate Windows
Go to Settings to activate Windows.

MAIN MENU1.CD ISSUE2.CD DEPOSIT3.ADMINISTRATOR MENU4.EXITPlease Select Your Option (1-4)2

Activate Windows
Go to Settings to activate Windows.

CD DEPOSITEnter The members admission no.1
CD no:10CD Name:maths
Author Name:rd sharma
CD deposited in no. of days15
CD deposited successfully_

Activate Windows
Go to Settings to activate Windows.

```
MAIN MENU1.CD ISSUE2.CD DEPOSIT3.ADMINISTRATOR MENU4.EXITPlease Select Your Option (1-4)2
```

Activate Windows
Go to Settings to activate Windows.

```
CD DEPOSITEnter The members admission no.2
CD no:20CD Name:dance
Author Name:MJ
CD deposited in no. of days50
Fine to be deposited Rs.35CD deposited successfully
```

Activate Windows
Go to Settings to activate Windows.

Future Enhancement:

- The said program can further be modified to enhance current Library Management Systems by hardware storage which is easily portable and user friendly.
 - The safety and security of the program can be guaranteed by the application of future scientific developments without hindering the efficiency and accuracy of the system.
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