LIBRARY MANAGEMENT SYSTEM

A Project submitted during 1st year 1st semester in OCT'2018 using 'C'at:

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Subject : Programming and Problem Solving —(PPS-1)

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Content

Introduction:

A collage library is a collection of source of information according to students needs.The system helps both students and the library manager to keep a constant track of all book available in the library.
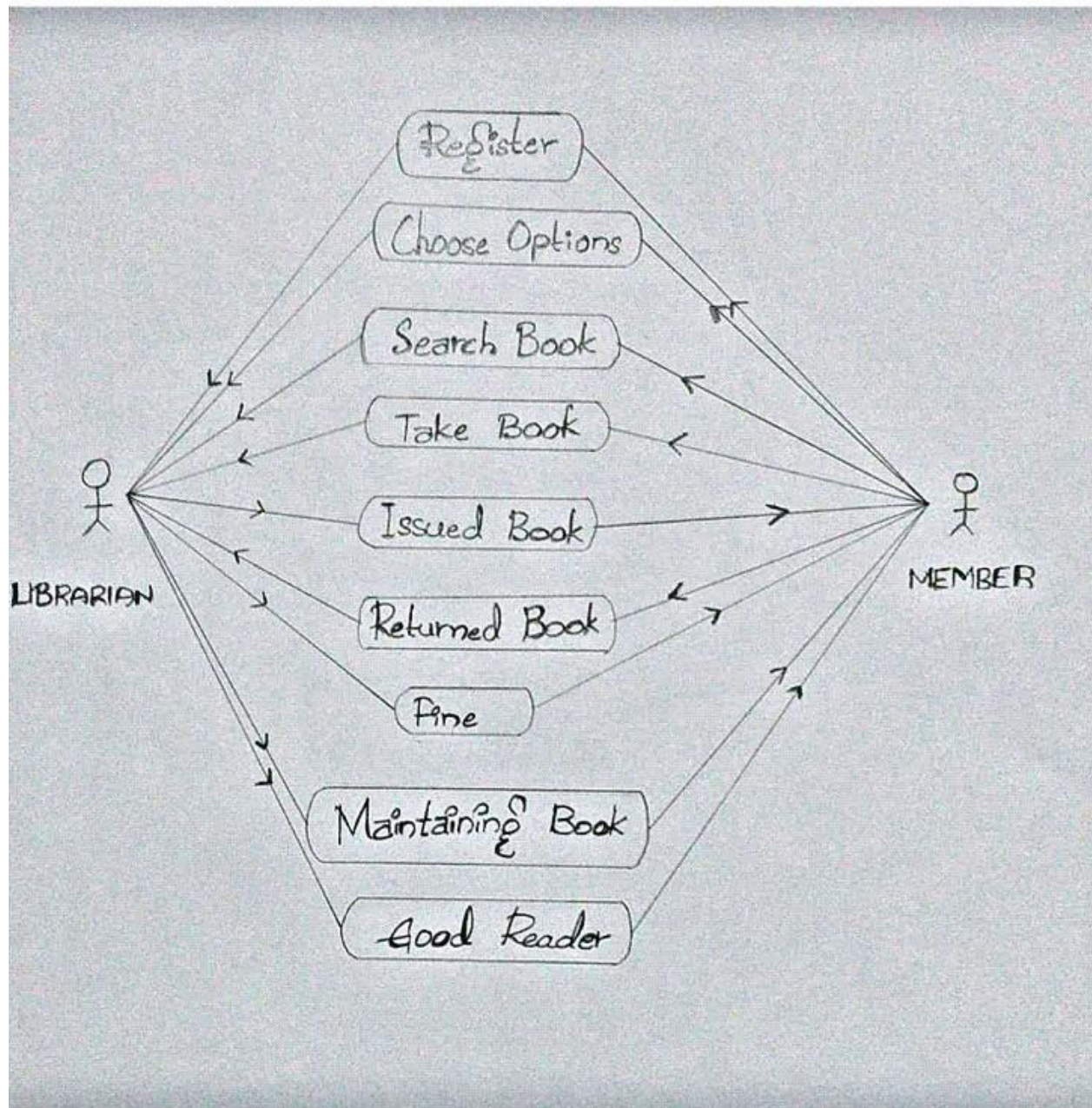
It allows both the admin and the student to search for the desired book.

It is necessary for colleges to keep a continuous check on the books issued and returned and even calculate fine.

Students should follow all the rules and regulations.

For every 3 months GOOD READERS of VJIT are declared.

Use Case Diagram:

Use Case Diagram with actors LIBRARIAN and MEMBER connected to use cases: Register, Choose Options, Search Book, Take Book, Issued Book, Returned Book, Fine, Maintaining Book, Good Reader.

The Functions Used :

Year( )- Is Used To Enter The Year
Roll Number( )- Is Used To Enter The Roll Number
Branch( )- Is Used To Enter The Branch
Section( )- Is Used To Enter The Section
Phone Number( )- Is Used To Enter The Phone Number
Book Code( )- Is Used To Enter The Book Code
Book Name( )- Is Used To Enter The Book Name
Signature( )- Is Used To Enter The Signature
Date Of Issued( )- Is Used To Enter The Date Of Issued
Date Of Returned( )- Is Used To Enter The Date Of Returned
Fine ( )- Is Used To Enter The Fine

The Code :

```c
#include<stdio.h>

int main()

{

int i,bookcode,rollnumber,doi,dos,n;

char writername,name,bookname,signature;

printf("*welcome to the VJIT library*\n");

printf("1.we are here to give you the best input for your best output.\n2.we,VJIT library invites you here, COME,READ,THINK,INNOVATE
                AND EXECUTE!\n");

printf("3.feel free to read,feel high to lead!\n4.silence is the first mandatory thing to maintain,here!\n");

printf("5.electronic devices are strictly prohibited.\n6.you should not carry bags inside the library.\n");

printf("7.anyway! here are some basic conditions we follow! go through them....\n");

printf("*we would like to provide you upto three books per each take which are for 15 days.*\n");

printf("*take out the best and make sure that you should return the best back!\n");

printf("we are open at 10'clock in morning,we will get closed at 5'clock in evening\n");

printf("#SURPRISES:\n1.If you return the book on time by more than 10 times, then you will be able to take one more book per each
                take.\n");

printf("2.If you are regular to our library and return books on time by more than 20 times\n");

printf("then you will be awarded as BEST READER OF VJIT LIBRARY\n");

printf("#SHOCKERS:\n1.By any chance, books should not get damaged.\n");

printf("2.If books are not returned at time,the follwing FINES will be given.\n");

printf("3.for your god sake,if you will be high at our shockers list,the you may have chances to get denied from our library\n");

printf("if you have a membership,then enter the value of n=1,else enter any other value and resgister for membership\n");

{

printf("enter the value of n");

scanf("%d",&n);

{

if(n==1)
```

```c
{
 printf("register with your roll number\n");
}
else
{
 printf("you have to create a membership\n");
 printf("things to have, to create a membership:\n1.You should be the student of VJIT\n");
 printf("2.You should provide three passport size photographs\n");
}
}
}
{
void year();
void rollno();
void branch();
void section();
void phonenumber();
void main()
{
 year();
 rollno();
 branch();
 section();
 phonenumber();
}
{
 int year;
```

```c
printf("enter the year\n");

scanf("%d",&year);

printf("year=%d\n",year);

}

{

int rollno;

printf("enter the rollno\n");

scanf("%d",&rollno);

printf("rollno=%d\n",rollno);

}

{

char branch[5];

printf("enter the branch\n");

scanf("%s",&branch);

printf("branch=%s\n",branch);

}

{

char section[5];

printf("enter the section\n");

scanf("%s",&section);

printf("section=%s\n",section);

}

{

int phonenumber;

printf("enter the phonenumber\n");

scanf("%d",&phonenumber);

printf("phonenumber=%d\n",phonenumber);
```

```c
}
}
printf("Now,enter your roll number\n");
{
printf("enter your rollnumber\n");
scanf("%d",&rollnumber);
}
printf("select your department from the options below\n");
printf("1.CSE\n2.ECE\n3.MECH\n4.IT\n5.EEE\n6.CIVIL\n");
printf("enter the value of i\n");
scanf("%d",&i);
switch(i)
{
 case 1:
                        printf("1.CSE\n");
                        break;
 case 2:
                                printf("2.ECE\n");
                                break;
 case 3:
                                printf("3.MECH\n");
                                break;
 case 4:
                                printf("4.IT\n");
                                break;
 case 5:
                                printf("5.EEE\n");
```

```c
                                    break;
    case 6:
                        printf("6.CIVIL\n");

                        break;
    default:
                                printf("no more options\n");
}
printf("take the books you need\n");
{
void bookcode();

void bookname();

void signature();

void doi();

void dor();

void main()

{
 bookcode();

 bookname();

 signature();

 doi();

 dor();

}
{
 int bookcode;

 printf("enter the bookcode");

 scanf("%d",&bookcode);

 printf("book code=%d\n",bookcode);
```

```c
}
{
char bookname[20];
printf("enter the bookname\n");
scanf("%s",&bookname);
printf("book code=%s\n",bookname);
}
{
char signature[10];
printf("enter the signature\n");
scanf("%s",&signature);
printf("signature=%s\n",signature);
}
{
int doi;
printf("enter the doi\n");
scanf("%d",&doi);
printf("doi=%d\n",doi);
}
{
int dor;
printf("enter the dor\n");
scanf("%d",&dor);
printf("doi=%d\n",dor);
}
}
{
```

```c
printf("everything has recorded,you can carry the books you have taken\n");

printf("**when you return the book**\n");

}

{

 void signature();

 void main()

 {

 signature();

 }

 {

 char signature[5];

 printf("enter the signature\n");

 scanf("%s",&signature);

 printf("signature=%s\n",signature);

 }

}

printf("if you return the book on time,then its okay,but if u dont,go through no.of late days and enter it below\n");

{

 int fine();

 void main()

 {

 fine();

 }

 {

 int nod,fine;

 printf("enter the nod");

 scanf("%d",&nod);
```

```c
if(nod<7)

{

fine=nod*1;

printf("fine=%d",fine);

}

else if(nod<=14)

{

fine=nod*3;

printf("fine=%d",fine);

}

else if(nod<=21)

{

fine=nod*5;

printf("fine=%d",fine);

}

else if(nod<=28)

{

fine=nod*7;

printf("fine=%d",fine);

}

else

{

fine=nod*7;

printf("fine=%d\n",fine);

printf("your membership is cancelled");

}

}
```
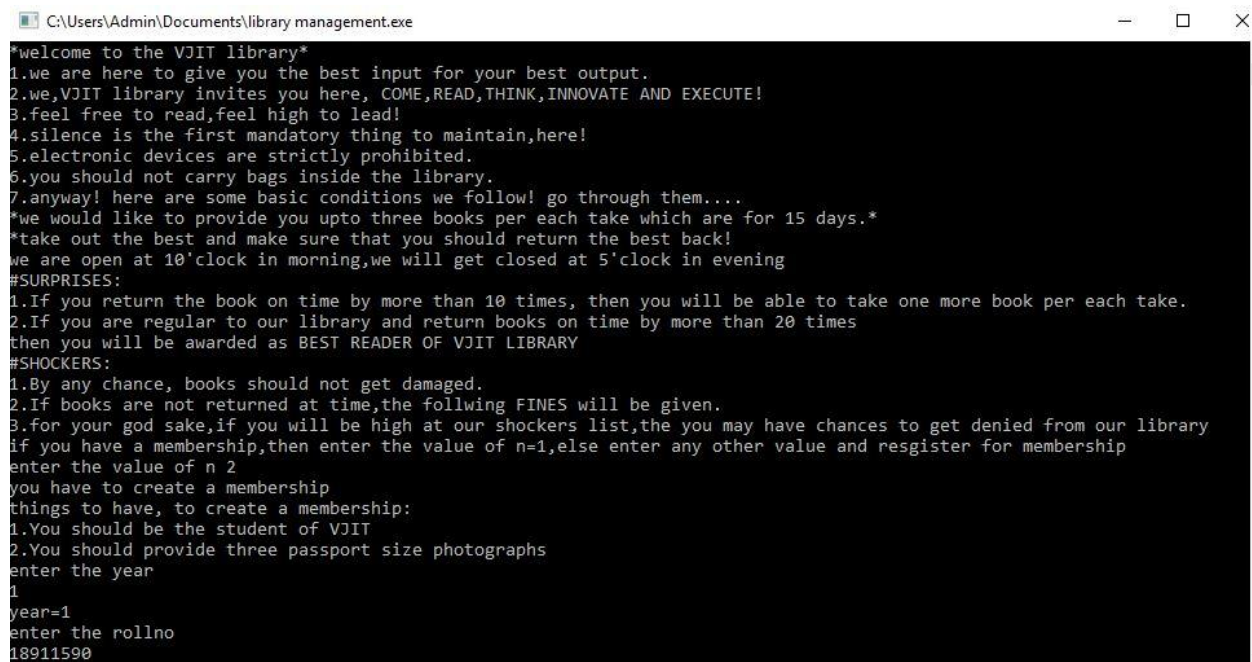
```
return 0;

}
```

Output Screens :

```
C:\Users\Admin\Documents\library management.exe                                    —    □    ×

*welcome to the VJIT library*
1.we are here to give you the best input for your best output.
2.we,VJIT library invites you here, COME,READ,THINK,INNOVATE AND EXECUTE!
3.feel free to read,feel high to lead!
4.silence is the first mandatory thing to maintain,here!
5.electronic devices are strictly prohibited.
6.you should not carry bags inside the library.
7.anyway! here are some basic conditions we follow! go through them....
*we would like to provide you upto three books per each take which are for 15 days.*
*take out the best and make sure that you should return the best back!
we are open at 10'clock in morning,we will get closed at 5'clock in evening
#SURPRISES:
1.If you return the book on time by more than 10 times, then you will be able to take one more book per each take.
2.If you are regular to our library and return books on time by more than 20 times
then you will be awarded as BEST READER OF VJIT LIBRARY
#SHOCKERS:
1.By any chance, books should not get damaged.
2.If books are not returned at time,the follwing FINES will be given.
3.for your god sake,if you will be high at our shockers list,the you may have chances to get denied from our library
if you have a membership,then enter the value of n=1,else enter any other value and resgister for membership
enter the value of n 2
you have to create a membership
things to have, to create a membership:
1.You should be the student of VJIT
2.You should provide three passport size photographs
enter the year
1
year=1
enter the rollno
18911590
```

```
18911590
select your department from the options below
1.CSE
2.ECE
3.MECH
4.IT
5.EEE
6.CIVIL
enter the value of i
1
1.CSE
take the books you need
enter the bookcode 11
book code=11
enter the bookname
m1
book code=m1
enter the signature
sus
signature=sus
enter the doi

12112018
doi=12112018
enter the dor
27102018
doi=27102018
everything has recorded,you can carry the books you have taken
**when you return the book**
enter the signature
```

```
1
1.CSE
take the books you need
enter the bookcode 11
book code=11
enter the bookname
m1
book code=m1
enter the signature
sus
signature=sus
enter the doi

12112018
doi=12112018
enter the dor
27102018
doi=27102018
everything has recorded,you can carry the books you have taken
**when you return the book**
enter the signature
sus
signature=sus
if you return the book on time,then its okay,but if u dont,go through no.of late days and enter it below
enter the nod 45
fine=315
your membership is cancelled
-------------------------------
Process exited after 98.93 seconds with return value 0
Press any key to continue . . .
```

Conclusion :

It Was amazing to make this project come true. We are hoping that we have completed this project by 100%.Initially,We wanted to make a simple program with 100 lines. But, it had become somewhat huge than we expected. Finally, We have done it which of 215 lines Successfully. This project have raised many rays of confidence for our Forthcoming Days In VJIT. This is a memorable one which lasts for life long.
From, Enthusiasm while choosing the project,
To, Happiness after completing the project,
We have learned a lot of things.We are really glad to make a project like this.
Thanking you sir, for giving this golden opportunity during initial steps!