Project Report
On

LIBRARY MANAGEMENT
SYSTEM

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ABSTRACT

Library management system is a project which aims in developing a computerized system to maintain all the daily work of library .This project has many features which are generally not availiable in normal library management systems like facility of user login and a facility of teachers login . It has also a facility where student after logging in their accounts can see list of books issued and its issue date and return date and also the students can request the librarian to add new books by filling the book request form.The librarian after logging into his account ie admin account can generate various reports such as student report , issue report, teacher report and book report

Overall this project of ours is being developed to help the students as well as staff of library to maintain the library in the best way possible and also reduce the human efforts.

PROJECT AIMS AND OBJECTIVES

The project aims and objectives that will be achieved after completion of this project are discussed in this subchapter. The aims and objectives are as follows:

- Online book issue

- Request column for librarian for providing new books

- A separate column for digital library

- Student login page where student can find books issued by him/her and date of return.

- A search column to search availability of books

- A teacher login page where teacher can add any events being organized in the college and important suggestions regarding books.

BACKGROUND OF PROJECT

Library Management System is an application which refers to library systems which are generally small or medium in size. It is used by librarian to manage the library using a computerized system where he/she can record various transactions like issue of books, return of books, addition of new books, addition of new students etc.

Books and student maintenance modules are also included in this system which would keep track of the students using the library and also a detailed description about the books a library contains. With this computerized system there will be no loss of book record or member record which generally happens when a non computerized system is used.

In addition, report module is also included in Library Management System. If user's position is admin, the user is able to generate different kinds of reports like lists of students registered, list of books, issue and return reports.

 All these modules are able to help librarian to manage the library with more convenience and in a more efficient way as compared to library systems which are not computerized.

FUNCTIONAL REQUIREMENTS

USER LOGIN

Description of feature

This feature used by the user to login into system. They are required to enter user id and password before they are allowed to enter the system .The user id and password will be verified and if invalid id is there user is allowed to not enter the system.

Functional requirements

-user id is provided when they register

-The system must only allow user with valid id and password to enter the system

-The system performs authorization process which decides what user level can acess to.

-The user must be able to logout after they finished using system.

REGISTER NEW USER

Description of feature

This feature can be performed by all users to register new user to create account.

Functional requirements

-System must be able to verify information

-System must be able to delete information if information is wrong

REGISTER NEW BOOK

Description of feature

This feature allows to add new books to the library

Functional requirements

-System must be able to verify information

-System must be able to enter number of copies into table.

- System must be able to not allow two books having same book id.

SEARCH BOOK

DESCRIPTION OF FEATURE

This feature is found in book maintenance part . we can search book based on book id , book name ,

publication or by author name.

Functional requirements

- System must be able to search the database based on select search type
- System must be able to filter book based on keyword enterd
- System must be able to show the filtered book in table view

ISSUE BOOKS AND RETURN BOOKS

DESCRIPTION OF FEATURE

This feature allows to issue and return books and also view reports of book issued.

Functional requirements

-System must be able to enter issue information in database.

-System must be able to update number of books.

- System must be able to search if book is available or not before issuing books

-System should be able to enter issue and return date information

SOFTWARE AND HARDWARE REQUIREMENTS

SOFTWARE REQUIREMENTS

☐ Operating system- Windows 10 is used as the operating system as it is stable and supports more features and is more user friendly

☐ **Database** Microsoft® SQL Server® 2014 is used as database as it easy to maintain and

retrieve records by simple queries which are in English language which are easy to understand

and easy to write.

HARDWARE REQUIREMENTS

➢ Intel core i5 3rth generation is used as a processor because it is fast than other processors an

provide reliable and stable and we can run our pc for longtime. By using this processor we can keep
on developing our project without any worries.

➢ Ram 4 gb is used as it will provide fast reading and writing capabilities and will in turn support

in processing

PROBLEM STATEMENT:

The problem occurred before having computerized system includes:

☐ File lost

When computerized system is not implemented file is always lost because of human

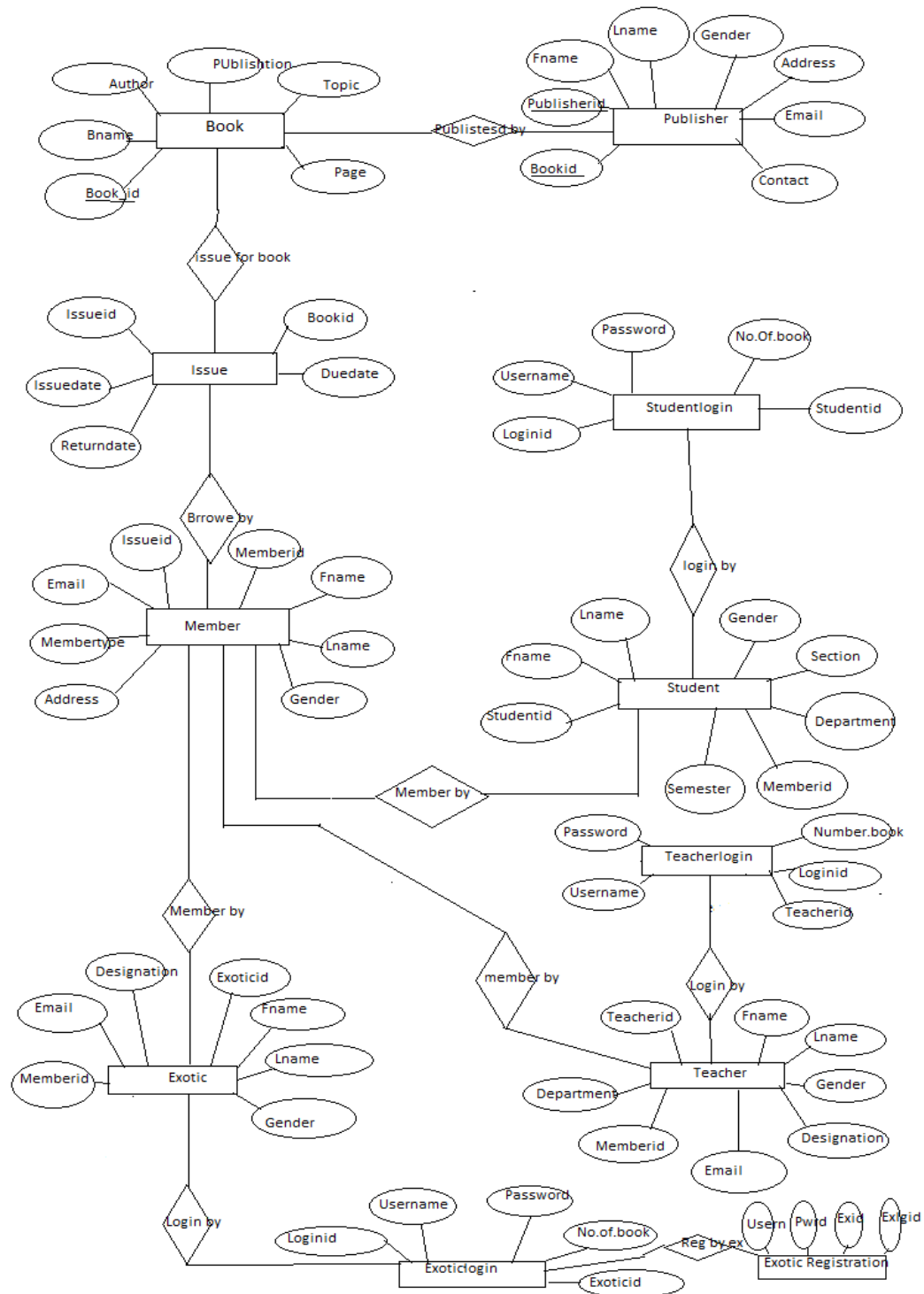environment. Some times due to some human error there may be a loss of records.

☐ File damaged When a computerized system is not there file is always lost due to some accdent like

spilling of water by some member on file accidentally.Besides some natural disaster like floods or

fires may also damage the files.

☐when insert data into table data didn't insert because foreign key is constant value of references
table.

Schema

Issue:
- 🔑 Issueid (PK, varchar(50), not null)
- 📄 Issuedate (varchar(50), null)
- 📄 Returndate (varchar(50), null)
- 📄 Duedate (varchar(50), null)
- 🔑 Bookid (FK, varchar(50), null)

Publisher:
- 🔑 Publisherid (PK, varchar(50), not null)
- 📄 Firstname (varchar(50), null)
- 📄 Lastname (varchar(50), null)
- 📄 Gender (varchar(50), null)
- 📄 Addresss (varchar(50), null)
- 📄 Email (varchar(50), null)
- 📄 Contact (varchar(50), null)
- 🔑 Bookid (FK, varchar(50), null)

Book:
- 🔑 Bookid (PK, varchar(50), not null)
- 📄 Bookname (varchar(50), not null)
- 📄 Author (varchar(50), not null)
- 📄 Publication (varchar(50), null)
- 📄 Subjeect (varchar(50), null)
- 📄 No_of_page (int, null)

Member:
- 🔑 Memberid (PK, varchar(50), not null)
- 📄 Firstname (varchar(50), null)
- 📄 Lastname (varchar(50), null)
- 📄 Gender (varchar(50), null)
- 📄 addresss (varchar(50), null)
- 📄 Memebertyp (varchar(50), null)
- 📄 Email (varchar(50), null)
- 🔑 Issueid (FK, varchar(50), null)

Teacher:
- 🔑 Teacherid (PK, varchar(50), not null)
- 📄 Firstname (varchar(50), not null)
- 📄 Lastname (varchar(50), not null)
- 📄 Gender (varchar(50), null)
- 📄 Designation (varchar(50), null)
- 📄 Department (varchar(50), null)
- 📄 Email (varchar(50), null)
- 🔑 Memberid (FK, varchar(50), null)

Exotic:
- 🔑 Exoticid (PK, varchar(50), not null)
- 📄 Firstname (varchar(50), not null)
- 📄 Lastname (varchar(50), not null)
- 📄 Gender (varchar(50), null)
- 📄 Designation (varchar(50), null)
- 📄 Email (varchar(50), null)
- 🔑 Memberid (FK, varchar(50), null)

Student:
- 🔑 Studentid (PK, varchar(50), not null)
- 📄 Firstname (varchar(50), not null)
- 📄 Lastname (varchar(50), not null)
- 📄 Gender (varchar(50), null)
- 📄 Section (varchar(50), null)
- 📄 Semester (varchar(50), null)
- 📄 Department (varchar(50), not null)
- 🔑 Memberid (FK, varchar(50), null)

Teacher Login:
- 🔑 Loginid (PK, varchar(50), not null)
- 📄 Username (varchar(50), null)
- 📄 Passwordd (varchar(50), null)
- 📄 Numbooks (varchar(50), null)
- 🔑 Teacherid (FK, varchar(50), null)

Exotic Login
- 🔑 Loginid (PK, varchar(50), not null)
- 📄 Username (varchar(50), null)
- 📄 Passwordd (varchar(50), null)
- 📄 Numbooks (varchar(50), null)
- 🔑 Exoticid (FK, varchar(50), null)

Student Login
- 🔑 Loginid (PK, varchar(50), not null)
- 📄 Username (varchar(50), null)
- 📄 Passwordd (varchar(50), null)
- 📄 Numbooks (varchar(50), null)
- 🔑 Studentid (FK, varchar(50), null)

Exotic Registration
- 🔑 Registrationid (PK, varchar(50), not null)
- 📄 Username (varchar(50), null)
- 📄 Passwordd (varchar(50), null)
- 🔑 Exoticid (FK, varchar(50), null)

ER-Diagram

Query and Output

```sql
/*1*****Get all book list from Libray Managment SYstem*******/

select [Bookname] from [dbo].[Book];
```

100 %

Results | Messages

	Bookname
1	Dipu number two
2	Himo
3	Chutir din
4	kamolakanto
5	Kabor
6	Chokrobak
7	Shiulimala
8	Gitanjali
9	The Home and...
10	??????? ???? ...
11	Mother of pearl...
12	Chithi

```
/*2***********Total Libray Member and Detailes***************/

select* from [dbo].[Member] as All_Member;
```

100 % ▾

Results | **Messages**

	Memberid	Firstname	Lastname	Gender	addresss	Memebertyp	Email	Issueid
1	12101050	rafiqul	Islam	M	Dhaka	A	roficse15@gmail.com	13101050
2	12101051	Shafiqul	Islam	M	Dhaka	A	roficse15@gmail.com	13101051
3	12101052	Shepon	Das	M	Puran dhaka	A	das@gmail.com	13101052
4	12101053	Jakir	Khan	M	Dhaka	B	Khan@gmail.com	13101053
5	12101054	Samin	Hosian	M	Comilla	C	hosin@gmail.com	13101054
6	12101055	Tamanna	Jakir	F	Dhaka	A	jakir@gmail.com	13101055
7	12101056	Mominul	Islam	M	Dhaka	A	rony@gmail.com	13101056
8	12101057	Kawasr	Hosain	M	Comilla	B	hosain2@gmail.com	13101057
9	12101058	Sharif	Mia	M	Comilla	C	mia@gmail.com	13101058
10	12101059	Najim	Uddin	M	Comilla	A	uddin@gmail.com	13101059
11	12101060	Najir	Khan	M	Comilla	B	das@gmail.com	13101060
12	12101061	Khan	Mia	M	Dhaka	A	khan4@gmail.com	13101061
13	12101063	rafiqul	Islam	M	Dhaka	A	roficse15@gmail.com	13101057

```
/*3******** Delete Member from Libray Managment SYstem*********/

delete from [dbo].[Member] where [Memberid] ='12101061';
```

100 % ▾

Messages

(1 row(s) affected)

```sql
/*4*******************UpdaterMember from Libray Managment SYstem*********/


insert into [dbo].[Member] values ('12101064','rafiqul','Islam','M','Dhaka','A','roficse15@gmail.com','13101057');
```

(1 row(s) affected)

```sql
/*5******Get  Members Of Libray Managment SYstem and First name one letter ********/


select* from[dbo].[Student] where [Firstname] Like '%a%';
select* from[dbo].[Exotic] where[Firstname] Like '%a%';
select*from [dbo].[Teacher] where [Firstname] Like '%a%';
```

	Studentid	Firstname	Lastname	Gender	Section	Semester	Department	Memberid
1	11101050	Rafiqul	Islam	M	B	Spring	CSE	12101050
2	11101052	Jakir	Hosain	M	A	Fall	EEE	12101054
3	11101053	Shafiqul	Islam	M	C	Spring	Arch	12101055

	Exoticid	Firstname	Lastname	Gender	Designation	Email	Memberid
1	7101050	Sabrin	Ahamed	F	Teacher	Sabrin@gmail.com	12101052
2	7101051	Rafiqul	Islam	M	Teacher	Islam@gmail.com	12101053
3	7101052	Shanto	Ahamed	M	Student	Ahamed@gmail....	12101054
4	7101053	Kawsar	Ahamed	M	Student	Ahamed4@gmail...	12101054

	Teacherid	Firstname	Lastname	Gender	Designation	Department	Email	Memberid
1	9101051	Asif	Hossain	M	Lecture	CSE	Hossain@gmail.com	12101057
2	9101052	Nahida	Chodhury	F	Lecture	CSE	Nahida@gmail.com	12101058
3	9101054	Rafiqul	Islam	M	Lecture	CSE	roficse15@gmail.c...	12101060

```sql
/*6*********Forgote Password Student *****************/


select[Passwordd]as Your_Password from[dbo].[Studentlogin] where [Username]='rofi';
```

	Your_Password
1	12345

15 | P a g e

```
/*7**********Forgote Password Teacher *****************/


select[Passwordd]as Your_Password from[dbo].[Teacherlogin] where [Username]='asif';
```

100 % ▼ ◂

☐ Results 🔖 Messages

	Your_Password
1	8976

```
/*8**********Forgote Password Exotic *****************/



select[Passwordd]as Your_Password from[dbo].[Exoticlogin] where [Username]='shanto';
```

100 % ▼ ◂

☐ Results 🔖 Messages

	Your_Password
1	97923

```
/*9********************Forgot Username Student********************/



select[Username]as Your_Username from [dbo].[Studentlogin] where [Passwordd]='12345';
```

00 % ▼ ◂

☐ Results 🔖 Messages

	Your_Username
1	rofi

```
/*10********************Forgot Username Teacher*******************/


select[Username]as Your_Username from [dbo].[Teacherlogin] where [Passwordd]='8976';
```

100 %   ▾ ‹

Results | **Messages**

	Your_Username
1	asif

```
/*11********************Forgot Username Exotic*******************/



select[Username]as Your_Username from [dbo].[Exoticlogin] where [Passwordd]='97923';
```

100 %   ▾ ‹

Results | **Messages**

	Your_Username
1	Shanto

```
/*12********************Exotic Registration**********************/


insert into [dbo].[Eoxticregistration] values('5101055','rofi','12345','7101053');
```

100 %   ▾ ‹

Messages

```
(1 row(s) affected)
```

```
/*13*******************All Publisher ********************/


select distinct[Author] as Author_List from [dbo].[Book];
```

100 % ▼ ‹

Results | Messages

	Author_List
1	Humayun Ahmed
2	Kazi Nazrul Islam
3	Muhammed Zafar Iqbal
4	Rabindranath Tagore
5	Saratchandra Chatterjee
6	Sufia Kamal

```
/*14****************** Issue Delete******************/


delete from[dbo].[Issue] where [Issueid]='13101062';
```

100 % ▼ ‹

Messages

(1 row(s) affected)

```
/*15*******************Find One Member and Detailes**************/

select* from[dbo].[Member] where [Memberid]='12101050';
```

100 % ▼ ‹

Results | Messages

	Memberid	Firstname	Lastname	Gender	addresss	Memebertyp	Email	Issueid
1	12101050	rafiqul	Islam	M	Dhaka	A	roficse15@gmail.com	13101050

```
/*16******************find out Number of Student Member list***************/


select* from[dbo].[Student];
```

100 %   ▼ <

Results | Messages

	Studentid	Firstname	Lastname	Gender	Section	Semester	Department	Memberid
1	11101050	Rafiqul	Islam	M	B	Spring	CSE	12101050
2	11101051	Shepon	Das	M	B	Spring	CSE	12101053
3	11101052	Jakir	Hosain	M	A	Fall	EEE	12101054
4	11101053	Shafiqul	Islam	M	C	Spring	Arch	12101055
5	11101054	Mominul	Islam	M	A	Fall	EEE	12101056

```
/*17******************find out Number of Exotic Member list***************/


select* from[dbo].[Exotic];
```

100 %   ▼ <

Results | Messages

	Exoticid	Firstname	Lastname	Gender	Designation	Email	Memberid
1	7101050	Sabrin	Ahamed	F	Teacher	Sabrin@gmail.com	12101052
2	7101051	Rafiqul	Islam	M	Teacher	Islam@gmail.com	12101053
3	7101052	Shanto	Ahamed	M	Student	Ahamed@gmail.com	12101054
4	7101053	Kawsar	Ahamed	M	Student	Ahamed4@gmail.com	12101054
5	7101054	Mominul	Islam	M	Professor	Islam3@gmail.com	12101055

```
/*18*****************find out Number of Teacher member list***************/



select* from[dbo].[Teacher];
```

	Teacherid	Firstname	Lastname	Gender	Designation	Department	Email	Memberid
1	9101050	Nedeem	Ahamed	M	Lecture	CSE	Nadeem@gmail.com	12101051
2	9101051	Asif	Hossain	M	Lecture	CSE	Hossain@gmail.com	12101057
3	9101052	Nahida	Chodhury	F	Lecture	CSE	Nahida@gmail.com	12101058
4	9101053	Shurov	Ahamed	M	Lecture	EEE	Shurov@gmail.com	12101059
5	9101054	Rafiqul	Islam	M	Lecture	CSE	roficse15@gmail.com	12101060

```
/*19***********************Count BOOK***************************/



select count(No_of_page) as Total_Book from [dbo].[Book];
```

	Total_Book
1	12

```
/*20******************ALL Issue Book  date and Returndate******************/


select[Issuedate],[Returndate] from[dbo].[Issue] ;
```

	Issuedate	Returndate
1	20-03-2017	05-04-2017
2	21-03-2017	06-04-2017
3	25-04-2017	08-05-2017
4	25-05-2017	20-05-2017
5	30-06-2017	15-06-2017
6	02-06-2017	17-05-2017
7	07-06-2017	25-06-2017
8	10-06-2017	25-06-2017
9	15-06-2017	30-06-2017
10	20-06-2017	04-07-2017
11	30-06-2017	15-07-2017
12	28-07-2017	10-08-2017

```
/*21******************Male Female Member separate list*************/


select [Firstname], case when [Gender]='M' then 'Male' when [Gender] ='F' then 'Femal' end as [Gender] from [dbo].[Member];
```

	Firstname	Gender
1	rafiqul	Male
2	Shafiqul	Male
3	Shepon	Male
4	Jakir	Male
5	Samin	Male
6	Tamanna	Femal
7	Mominul	Male
8	Kawasr	Male
9	Sharif	Male
10	Najim	Male
11	Najir	Male
12	Khan	Male
13	rafiqul	Male
14	rafiqul	Male

```
/*22************************Find out Id Who are take book from LMS***************/

select[Issueid] from [dbo].[Issue];
```

100 %

Results | Messages

	Issueid
1	13101050
2	13101051
3	13101052
4	13101053
5	13101054
6	13101055
7	13101056
8	13101057
9	13101058
10	13101059
11	13101060
12	13101061

```
/*23*******************find out Duedate Book and Book id*****************/

select[Bookid],[Duedate] from [dbo].[Issue];
```

100 %

Results | Messages

	Bookid	Duedate
1	15101050	07-05-2017
2	15101051	08-05-2017
3	15101052	07-05-2017
4	15101053	22-05-2017
5	15101054	17-06-2017
6	15101054	20-06-2017
7	15101055	29-06-2017
8	15101056	27-06-2017
9	15101057	05-07-2017
10	15101058	06-07-2017
11	15101059	17-07-2017
12	15101060	12-08-2017

```
/*24********************find out Book search bar**************/


select[Bookname] from [dbo].[Book]  where [Bookname]='Dipu number two' and [Author]='Muhammed Zafar Iqbal'; 
```

100 %

Results   Messages

	Bookname
1	Dipu number two

```
/*25*************************find out Author book list********************/


select [Bookname] from [dbo].[Book]where [Author]='Kazi Nazrul Islam';
```

100 %

Results   Messages

	Bookname
1	Kabor
2	Chokrobak
3	Shiulimala

```
/*26*********************************find out book by Author***************************/

select [Bookname] from [dbo].[Book] where [Author]='Rabindranath Tagore';
```

100 %

Results   Messages

	Bookname
1	Chutir din
2	Gitanjali
3	The Home and the World

```sql
select[Bookname] from [dbo].[Book] where [Bookname]='Dipu number two';
```

100 %

Results | Messages

	Bookname
1	Dipu number two

Source Code

```sql
/*****************Create Book Table****************/

create table Book(

Bookid varchar(50),
Bookname varchar(50) NOT NULL,
Author varchar(50) NOT NULL,
Publication varchar(50),
Subjeect varchar(50),
No_of_page int

primary key(Bookid),

);


select* from [dbo].[Book];


insert into[dbo].[Book] values('15101050','Dipu number two','Muhammed Zafar
Iqbal','1992','Interasting',700);

insert into[dbo].[Book] values('15101051','Himo','Humayun
Ahmed','1995','Interasting',800);

insert into[dbo].[Book] values('15101052','Chutir din','Rabindranath
Tagore','1972','Tragedy',120);

insert into[dbo].[Book] values('15101053','kamolakanto','Saratchandra
Chatterjee','1962','Interasting',220);

insert into[dbo].[Book] values('15101054','Kabor','Kazi Nazrul
Islam','1952','Tragedy',150);

insert into[dbo].[Book] values('15101055','Chokrobak','Kazi Nazrul
Islam','1967','Tragedy',250);

insert into[dbo].[Book] values('15101056','Shiulimala','Kazi Nazrul
Islam','1977','Interasting',300);

insert into[dbo].[Book] values('15101057','Gitanjali','Rabindranath
Tagore','1910','Tragedy',770);

insert into[dbo].[Book] values('15101058','The Home and the World','Rabindranath
Tagore','1916','Tragedy',970);

insert into[dbo].[Book] values('15101059','□□□□□□□ □□□□ □□□','Sufia
Kamal','1956','Interasting',200);

insert into[dbo].[Book] values('15101060','Mother of pearls and other poems','Sufia
Kamal','1946','Interasting',150);
```

```sql
insert into[dbo].[Book] values('15101061','Chithi','Sufia
Kamal','1936','Interasting',300);




/****************Create Publisher Table********************/


create table Publisher(

Publisherid varchar(50),
Firstname varchar(50),
Lastname varchar(50),
Gender varchar(50),
Addresss varchar(50),
Email varchar(50),
Contact varchar(50),


primary key(Publisherid),
Bookid varchar(50)references Book(Bookid),


);

select*from[dbo].[Publisher];



insert into [dbo].[Publisher]
values('14101050','Rafiqul','Islam','M','Dhaka','roficse15@gmail.com','01521431918','1510
1050');

insert into [dbo].[Publisher]
values('14101051','Shepon','Das','M','Dhaka','das@gmail.com','01527639471','15101051');

insert into [dbo].[Publisher]
values('14101052','Rabindranath','Tagore','M','Kalkata','Tagore@gmail.com','01727639471',
'15101052');

insert into [dbo].[Publisher]
values('14101053','Saratchandra','Chatterjee','M','Kalkata','Chatterjee@gmail.com','01927
639474','15101053');

insert into [dbo].[Publisher]
values('14101054','Sufia','Kamal','F','Dhaka','Kamal@gmail.com','01927346274','15101054')
;

insert into [dbo].[Publisher] values('14101055','Kazi
Nazrul','Islam','M','Dhaka','Islam@gmail.com','01897346274','15101055');

insert into [dbo].[Publisher] values('14101056','Muhammed
Zafar','Iqbal','M','Sylate','Iqbal@gmail.com','01697346274','15101056');
```

```sql
insert into [dbo].[Publisher]
values('14101057','Humayun','Ahmed','M','Sylate','Ahmed@gmail.com','01937346274','1510105
7');
```

```sql
/******************Create Issue Table********************/


create table Issue(

Issueid varchar(50),
Issuedate varchar(50),
Returndate varchar(50),
Duedate varchar(50),

primary key(Issueid),

Bookid varchar(50)references Book(Bookid),

);

select*from [dbo].[Issue];


insert into [dbo].[Issue] values('13101050','20-03-2017','05-04-2017','07-05-
2017','15101050');

insert into [dbo].[Issue] values('13101051','21-03-2017','06-04-2017','08-05-
2017','15101051');

insert into [dbo].[Issue] values('13101052','25-04-2017','08-05-2017','07-05-
2017','15101052');

insert into [dbo].[Issue] values('13101053','25-05-2017','20-05-2017','22-05-
2017','15101053');

insert into [dbo].[Issue] values('13101054','30-06-2017','15-06-2017','17-06-
2017','15101054');

insert into [dbo].[Issue] values('13101055','02-06-2017','17-05-2017','20-06-
2017','15101054');

insert into [dbo].[Issue] values('13101056','07-06-2017','25-06-2017','29-06-
2017','15101055');

insert into [dbo].[Issue] values('13101057','10-06-2017','25-06-2017','27-06-
2017','15101056');

insert into [dbo].[Issue] values('13101058','15-06-2017','30-06-2017','05-07-
2017','15101057');

insert into [dbo].[Issue] values('13101059','20-06-2017','04-07-2017','06-07-
2017','15101058');
```

```
insert into [dbo].[Issue] values('13101060','30-06-2017','15-07-2017','17-07-
2017','15101059');

insert into [dbo].[Issue] values('13101061','28-07-2017','10-08-2017','12-08-
2017','15101060');

insert into [dbo].[Issue] values('13101062','04-08-2017','20-08-2017','22-08-
2017','15101061');
```

```
/***************Create Member Table********************/

create table Member(


Memberid varchar(50),
Firstname varchar(50),
Lastname varchar(50),
Gender varchar(50),
addresss varchar(50),
Memebertyp varchar(50),
Email varchar(50),

primary key(Memberid),

Issueid varchar(50)references Issue(Issueid),



);



select*from[dbo].[Member];


insert into [dbo].[Member] values
('12101050','rafiqul','Islam','M','Dhaka','A','roficse15@gmail.com','13101050');

insert into [dbo].[Member] values
('12101051','Shafiqul','Islam','M','Dhaka','A','roficse15@gmail.com','13101051');

insert into [dbo].[Member] values ('12101052','Shepon','Das','M','Puran
dhaka','A','das@gmail.com','13101052');

insert into [dbo].[Member] values
('12101053','Jakir','Khan','M','Dhaka','B','Khan@gmail.com','13101053');
```

```sql
insert into [dbo].[Member] values
('12101054','Samin','Hosian','M','Comilla','C','hosin@gmail.com','13101054');

insert into [dbo].[Member] values
('12101055','Tamanna','Jakir','F','Dhaka','A','jakir@gmail.com','13101055');

insert into [dbo].[Member] values
('12101056','Mominul','Islam','M','Dhaka','A','rony@gmail.com','13101056');

insert into [dbo].[Member] values
('12101057','Kawasr','Hosain','M','Comilla','B','hosain2@gmail.com','13101057');

insert into [dbo].[Member] values
('12101058','Sharif','Mia','M','Comilla','C','mia@gmail.com','13101058');

insert into [dbo].[Member] values
('12101059','Najim','Uddin','M','Comilla','A','uddin@gmail.com','13101059');

insert into [dbo].[Member] values
('12101060','Najir','Khan','M','Comilla','B','das@gmail.com','13101060');

insert into [dbo].[Member] values
('12101061','Khan','Mia','M','Dhaka','A','khan4@gmail.com','13101061');




/******************Create Student Table******************/

create table Student(

Studentid varchar(50),
Firstname varchar(50) NOT NULL,
Lastname varchar(50) NOT NULL,
Gender varchar(50),
Section varchar(50),
Semester varchar(50),
Department varchar(50) NOT NULL,

primary key(Studentid),

Memberid varchar(50) references Member(Memberid),
);




select *from[dbo].[Student];


insert into [dbo].[Student] values
('11101050','Rafiqul','Islam','M','B','Spring','CSE','12101050');
```

```sql
insert into [dbo].[Student] values
('11101051','Shepon','Das','M','B','Spring','CSE','12101053');

insert into [dbo].[Student] values
('11101052','Jakir','Hosain','M','A','Fall','EEE','12101054');

insert into [dbo].[Student] values
('11101053','Shafiqul','Islam','M','C','Spring','Arch','12101055');

insert into [dbo].[Student] values
('11101054','Mominul','Islam','M','A','Fall','EEE','12101056');




/*******************create Studenlogin Table*******************/


create table Studentlogin(

Loginid varchar(50),
Username varchar(50),
Passwordd varchar(50),
Numbooks varchar (50),

primary key(Loginid),

Studentid varchar(50)references Student(Studentid),

);




select* from[dbo].[Studentlogin];


insert into [dbo].[Studentlogin] values ('10101050','rofi','12345','5','11101050');

insert into [dbo].[Studentlogin] values ('10101051','Shepon','87543','2','11101051');

insert into [dbo].[Studentlogin] values ('10101052','Rony','97362','1','11101052');

insert into [dbo].[Studentlogin] values ('10101053','roky','90745','3','11101053');

insert into [dbo].[Studentlogin] values ('10101054','Jakir','97503','2','11101054');
```

```sql
/******************create Teacher Table*****************/


create table Teacher(
Teacherid varchar(50),
Firstname varchar(50) NOT NULL,
Lastname varchar(50) NOT NULL,
Gender varchar(50),
Designation varchar(50),
Department varchar(50),
Email varchar(50),

primary key (Teacherid),

Memberid varchar(50) references Member(Memberid),
);



select* from[dbo].[Teacher];



insert into [dbo].[Teacher] values
('9101050','Nedeem','Ahamed','M','Lecture','CSE','Nadeem@gmail.com','12101051');

insert into [dbo].[Teacher] values
('9101051','Asif','Hossain','M','Lecture','CSE','Hossain@gmail.com','12101057');

insert into [dbo].[Teacher] values
('9101052','Nahida','Chodhury','F','Lecture','CSE','Nahida@gmail.com','12101058');

insert into [dbo].[Teacher] values
('9101053','Shurov','Ahamed','M','Lecture','EEE','Shurov@gmail.com','12101059');

insert into [dbo].[Teacher] values
('9101054','Rafiqul','Islam','M','Lecture','CSE','roficse15@gmail.com','12101060');




/******************Create Teacherlogin Table*****************/


create table Teacherlogin(

Loginid varchar(50),
Username varchar(50),
Passwordd varchar(50),
Numbooks varchar (50),
```

```sql
primary key(Loginid),

Teacherid varchar(50) references Teacher(Teacherid),

);



select* from [dbo].[Teacherlogin];



insert into [dbo].[Teacherlogin] values('8101050','Shepon','12345','6','9101050');

insert into [dbo].[Teacherlogin] values('8101051','Naeem','89739','3','9101051');

insert into [dbo].[Teacherlogin] values('8101052','asif','8976','2','9101052');

insert into [dbo].[Teacherlogin] values('8101053','Nahida','87893','5','9101053');

insert into [dbo].[Teacherlogin] values('8101054','Shurov','98346','1','9101054');




/*************************** Create Exotic Table**********************/

create table Exotic(

Exoticid varchar(50),
Firstname varchar(50) NOT NULL,
Lastname varchar(50) NOT NULL,
Gender varchar(50),
Designation varchar(50),
Email varchar(50),

primary key(Exoticid),

Memberid varchar(50) references Member(Memberid),


);


select* from[dbo].[Exotic];
```

```sql
insert into[dbo].[Exotic]
values('7101050','Sabrin','Ahamed','F','Teacher','Sabrin@gmail.com','12101052');

insert into[dbo].[Exotic]
values('7101051','Rafiqul','Islam','M','Teacher','Islam@gmail.com','12101053');

insert into[dbo].[Exotic]
values('7101052','Shanto','Ahamed','M','Student','Ahamed@gmail.com','12101054');

insert into[dbo].[Exotic]
values('7101053','Kawsar','Ahamed','M','Student','Ahamed4@gmail.com','12101054');

insert into[dbo].[Exotic]
values('7101054','Mominul','Islam','M','Professor','Islam3@gmail.com','12101055');



/****************************Create Exotic Login Table***************************/


Create table Exoticlogin(


Loginid varchar(50),
Username varchar(50),
Passwordd varchar(50),
Numbooks varchar (50),

primary key(Loginid),


Exoticid varchar(50) references Exotic(Exoticid),

);


select* from[dbo].[Exoticlogin];


insert into [dbo].[Exoticlogin] values ('6101050','roky','12345','3','7101050');

insert into [dbo].[Exoticlogin] values ('6101051','Rafiqul','79343','5','7101052');

insert into [dbo].[Exoticlogin] values ('6101052','Mominul','98732','2','7101053');

insert into [dbo].[Exoticlogin] values ('6101053','Shanto','97923','6','7101054');

insert into [dbo].[Exoticlogin] values ('6101054','Jakir','89374','1','7101051');
```

```sql
/***************Create Eoxtic Registration Table*******************/


create table Eoxticregistration(


Registrationid varchar(50),
Username varchar(50),
Passwordd varchar(50),

primary key(Registrationid),

Exoticid varchar(50) references Exotic(Exoticid),

);


select* from[dbo].[Eoxticregistration];


insert into [dbo].[Eoxticregistration] values('5101050','rofi','12345','7101050');


insert into [dbo].[Eoxticregistration] values('5101051','Das','74565','7101051');


insert into [dbo].[Eoxticregistration] values('5101052','roky','87654','7101052');


insert into [dbo].[Eoxticregistration] values('5101053','rony','76535','7101053');


insert into [dbo].[Eoxticregistration] values('5101054','jakir','78654','7101054');
```

Query

```sql
/*1*****Get all book list from Libray Managment SYstem*******/


select [Bookname] from [dbo].[Book];



/*2**********Total Libray Member and Detailes**************/


select* from [dbo].[Member] as All_Member;



/*3******* Delete Member from Libray Managment SYstem*********/


delete from [dbo].[Member] where [Memberid] ='12101061';



/*4*******************UpdaterMember from Libray Managment SYstem********/


insert into [dbo].[Member] values
('12101064','rafiqul','Islam','M','Dhaka','A','roficse15@gmail.com','13101057');



/*5******Get  Members Of Libray Managment SYstem and First name one letter ********/


select* from[dbo].[Student] where [Firstname] Like '%a%';
select* from[dbo].[Exotic] where[Firstname] Like '%a%';
select*from [dbo].[Teacher] where [Firstname] Like '%a%';



/*6*********Forgote Password Student ****************/
```

```sql
select[Passwordd]as Your_Password from[dbo].[Studentlogin] where [Username]='rofi';



/*7*********Forgote Password Teacher ****************/



select[Passwordd]as Your_Password from[dbo].[Teacherlogin] where [Username]='asif';



/*8*********Forgote Password Exotic ****************/



select[Passwordd]as Your_Password from[dbo].[Exoticlogin] where [Username]='shanto';



/*9******************Forgot Username Student******************/



select[Username]as Your_Username from [dbo].[Studentlogin] where [Passwordd]='12345';



/*10******************Forgot Username Teacher******************/



select[Username]as Your_Username from [dbo].[Teacherlogin] where [Passwordd]='8976';



/*11******************Forgot Username Exotic******************/



select[Username]as Your_Username from [dbo].[Exoticlogin] where [Passwordd]='97923';



/*12******************Exotic Registration*********************/



insert into [dbo].[Eoxticregistration] values('5101055','rofi','12345','7101053');
```

```sql
/*13****************All Publisher *********************/

select distinct[Author] as Author_List from [dbo].[Book];

/*14***************** Issue Delete*****************/

delete from[dbo].[Issue] where [Issueid]='13101062';

/*15*****************Find One Member and Detailes*************/

select* from[dbo].[Member] where [Memberid]='12101050';

/*16****************find out Number of Student Member list*************/

select* from[dbo].[Student];

/*17****************find out Number of Exotic Member list*************/

select* from[dbo].[Exotic];

/*18****************find out Number of Teacher member list*************/

select* from[dbo].[Teacher];

/*19********************Count BOOK*************************/

select count(No_of_page) as Total_Book from [dbo].[Book];
```

```sql
/*20*****************ALL Issue Book  date and Returndate****************/


select[Issuedate],[Returndate] from[dbo].[Issue] ;


/*21*****************Male Female Member separate list*************/


select [Firstname], case when [Gender]='M' then 'Male' when [Gender] ='F' then 'Femal'
end as [Gender] from [dbo].[Member];


/*22*********************Find out Id Who are take book from LMS**************/


select[Issueid] from [dbo].[Issue];

/*23*****************find out Duedate Book and Book id****************/


select[Bookid],[Duedate] from [dbo].[Issue];


/*24*********************find out Book search bar*************/


select[Bookname] from [dbo].[Book]  where [Bookname]='Dipu number two' and
[Author]='Muhammed Zafar Iqbal';


/*25************************find out Author book list*******************/


select [Bookname] from [dbo].[Book]where [Author]='Kazi Nazrul Islam';

/*26*****************************find out book by Author************************/

select [Bookname] from [dbo].[Book] where [Author]='Rabindranath Tagore';

/*27**************************Find out book bye Book name****************/


select[Bookname] from [dbo].[Book] where [Bookname]='Dipu number two';
```

CONCLUSION & FUTURE

It makes entire process online where student can search books, staff can generate reports and do book transactions. It also has a facility for student login where student can login and can see status of books issued as well request for book or give some suggestions. It has a facility of teacher's login where teachers can add lectures notes and also give necessary suggestion to library and also add info about workshops or events happening in our college or nearby college in the online notice board.

There is a future scope of this facility that many more features such as online lectures video tutorials can be added by teachers as well as online assignments submission facility , a feature Of group chat where students can discuss various issues of engineering can be added to this project thus making it more interactive more user friendly and project which fulfills each users need in the best way possible