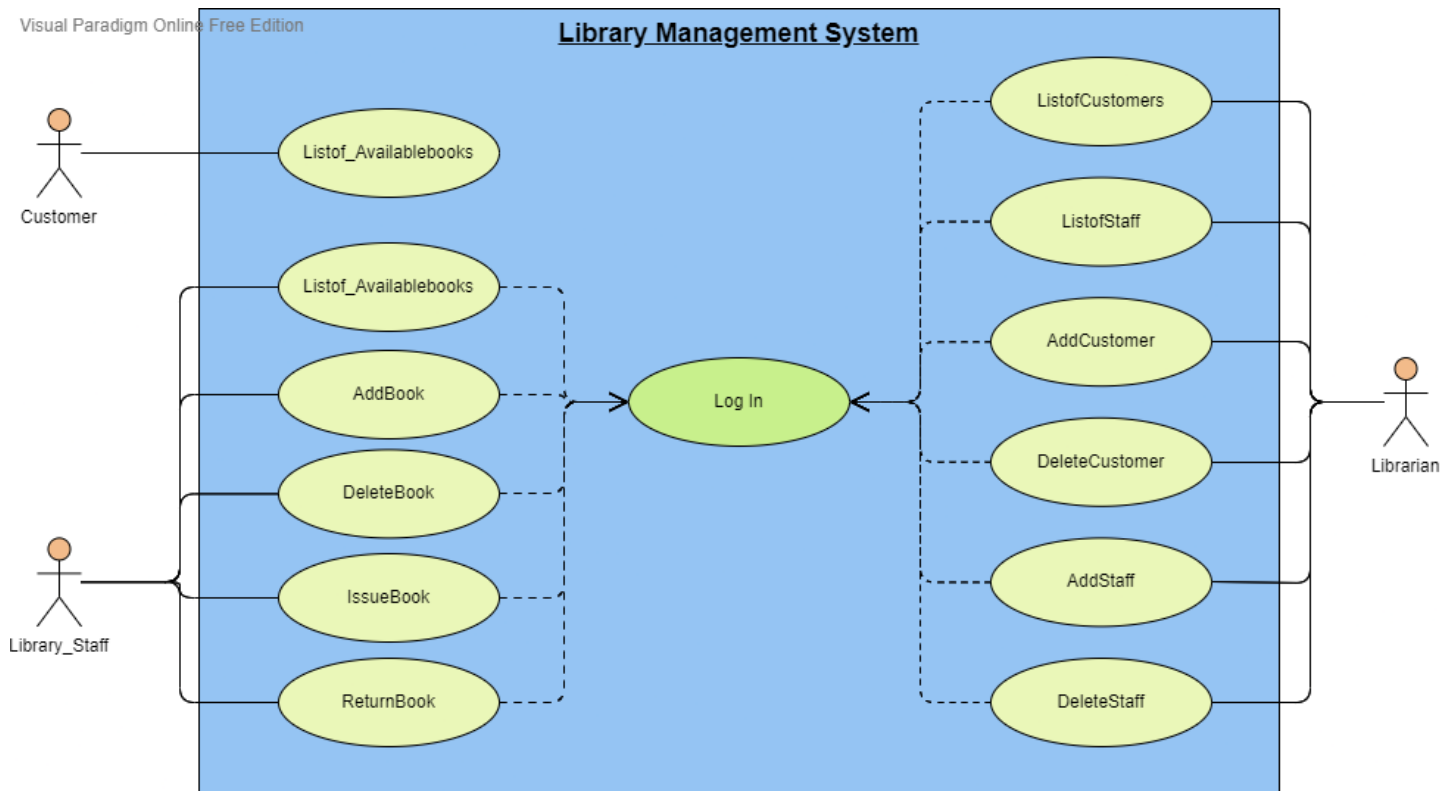


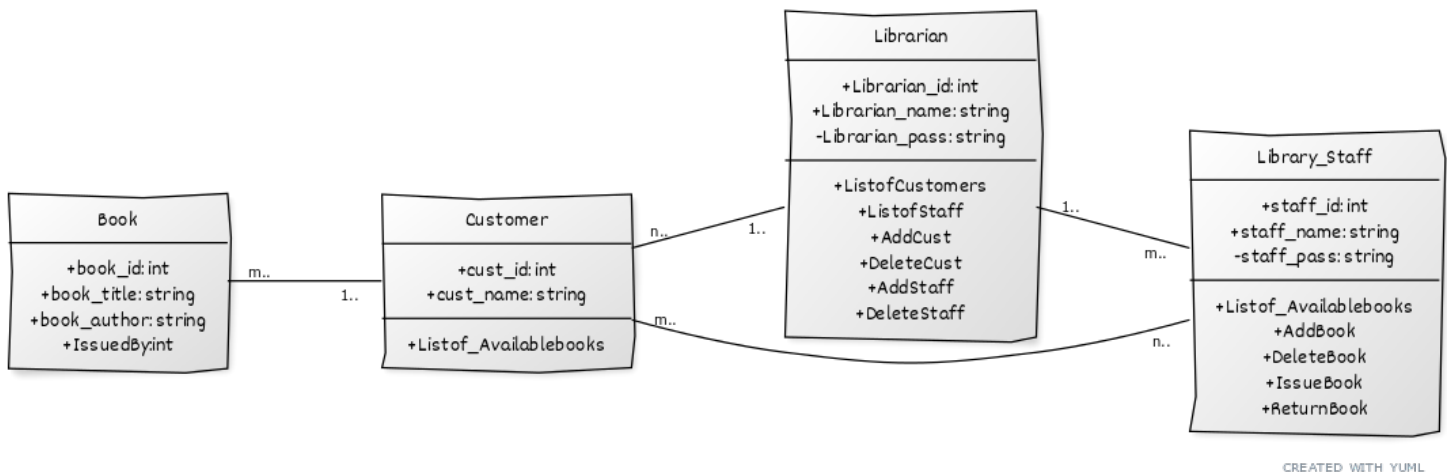
Library Management System

by IMT2020081 Arin Awasthi

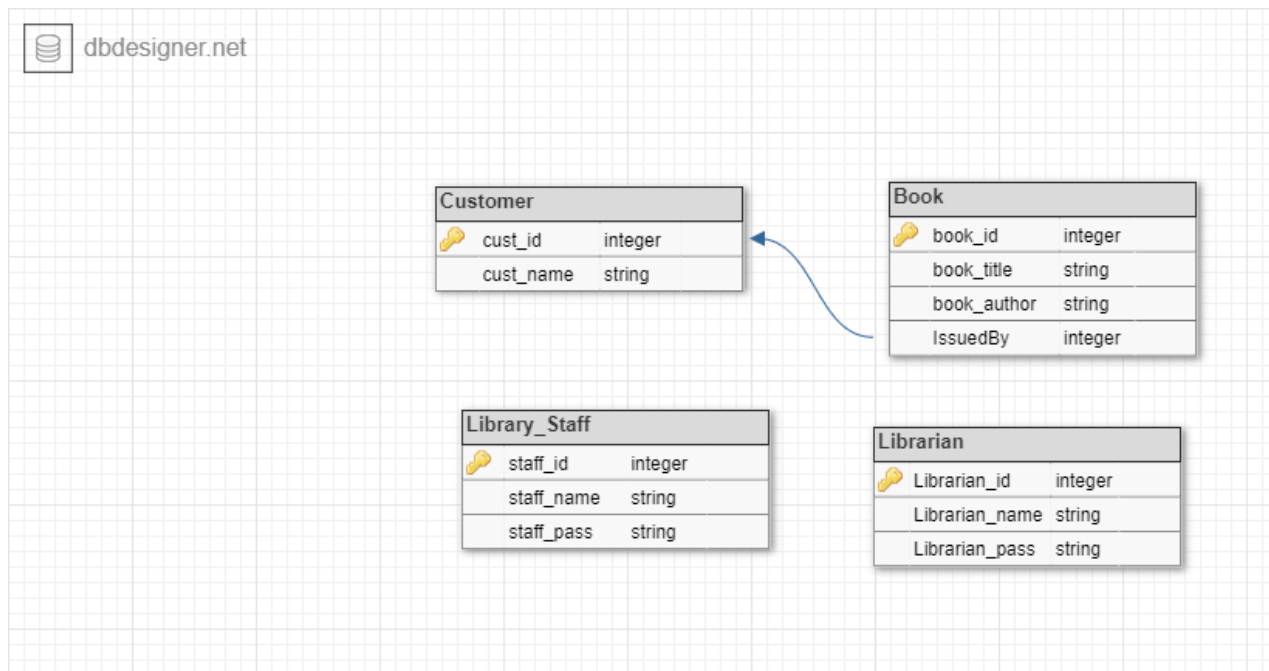
Use Case Diagram -



UML Diagram -



OR Mapping -



Output Screenshots -

Main Menu -

```
arin@Phoenix: ~/DBMS/Mini_Project
WELCOME TO LIBRARY MANAGEMENT SERVICE
Login as a -
1. Customer
2. Staff Member
3. Librarian
0. Exit
Your Choice : 3
```

Authentication for Library_Staff and Librarian -

```
arin@Phoenix: ~/DBMS/Mini_Project
Enter your ID: 1
Enter your password: pass1234
```

AddCust(shown below) and AddStaff -

```
arin@Phoenix: ~/DBMS/Mini_Project
Enter Customer name : cust2
```

```
arin@Phoenix: ~/DBMS/Mini_Project
Customer added Successfully!!
Customer ID Created : 2
Please select an appropriate option-
1. List of Customers
2. List of Staff Members
3. Add a Customer
4. Delete a Customer
5. Add a Staff Member
6. Delete a Staff Member
0. Exit
Your Choice:
```

List of Customers (shown below) and List of Staff -

```
arin@Phoenix: ~/DBMS/Mini_Project
List of Customers :
Cust ID : 1
Name: cust1
Cust ID : 2
Name: cust2
Please select an appropriate option-
1. List of Customers
2. List of Staff Members
3. Add a Customer
4. Delete a Customer
5. Add a Staff Member
6. Delete a Staff Member
0. Exit
Your Choice:
```

DeleteCust(shown below) and DeleteStaff -

```
arin@Phoenix: ~/DBMS/Mini_Project
Enter Customer ID : 1

Customer deleted successfully!!
Please select an appropriate option-
1. List of Customers
2. List of Staff Members
3. Add a Customer
4. Delete a Customer
5. Add a Staff Member
6. Delete a Staff Member
0. Exit

Your Choice:
```

```
arin@Phoenix: ~/DBMS/Mini_Project

List of Customers :

Cust ID : 2
Name: cust2

Please select an appropriate option-
1. List of Customers
2. List of Staff Members
3. Add a Customer
4. Delete a Customer
5. Add a Staff Member
6. Delete a Staff Member
0. Exit

Your Choice:
```

Library_StaffMenu-

```
arin@Phoenix: ~/DBMS/Mini_Project

Please select an appropriate option-
1. List of all books
2. List of available books
3. Issue a book
4. Return a book
5. Add a book
6. Delete a book
0. Exit

Your choice :
```

IssueBook -

```
arin@Phoenix: ~/DBMS/Mini_Project

List of Available Books :

ID : 1
Book title: book1
Author : abc

Select a Book from the above list...

Enter Book ID : 1
Enter Customer ID : 1
```

ReturnBook -

```
arin@Phoenix: ~/DBMS/Mini_Project

Enter Book ID : 1
```

```
arin@Phoenix: ~/DBMS/Mini_Project

Book returned Successfully!!

Please select an appropriate option-
1. List of all books
2. List of available books
3. Issue a book
4. Return a book
5. Add a book
6. Delete a book
0. Exit

Your choice :
```

CustomerMenu-

```
arin@Phoenix: ~/DBMS/Mini_Project
Services we can provide -
1. List of available Books
0. Exit

Your Choice : █
```

List of Available Books (which can be issued) -

```
arin@Phoenix: ~/DBMS/Mini_Project

List of Available Books :
ID : 1
Book title: book1
Author : abc

Services we can provide -
1. List of available Books
0. Exit

Your Choice :
```

-> Other functions which are not listed here, have working similar to the ones mentioned here.

Instructions to run the code-

Firstly, We need to create the Database and it's tables. So for that -
Open terminal and login to mysql as -
mysql -u root -p (admin)

Now, run these commands -
source pathto_ourdir/sql_scripts/create.sql;
source pathto_ourdir/sql_scripts/alter.sql;
source pathto_ourdir/sql_scripts/insert.sql;

Now, run these commands on the normal terminal where our directory has been opened -
export CLASSPATH='patht_ourdir/mysql-connector-java-8.0.18.jar:.'

```
javac LMS.java  
java LMS
```

If you are done with the database, you can drop all the tables and database with -
source pathto_ourdir/sql_scripts/drop.sql;

Notes -

The Database has been initialised with some entries to get going.
Book (1, book1 by abc), Customer (1, cust1), Library_Staff(1, staff1, pass- pass1234), Librarian(1, admin, pass1234)