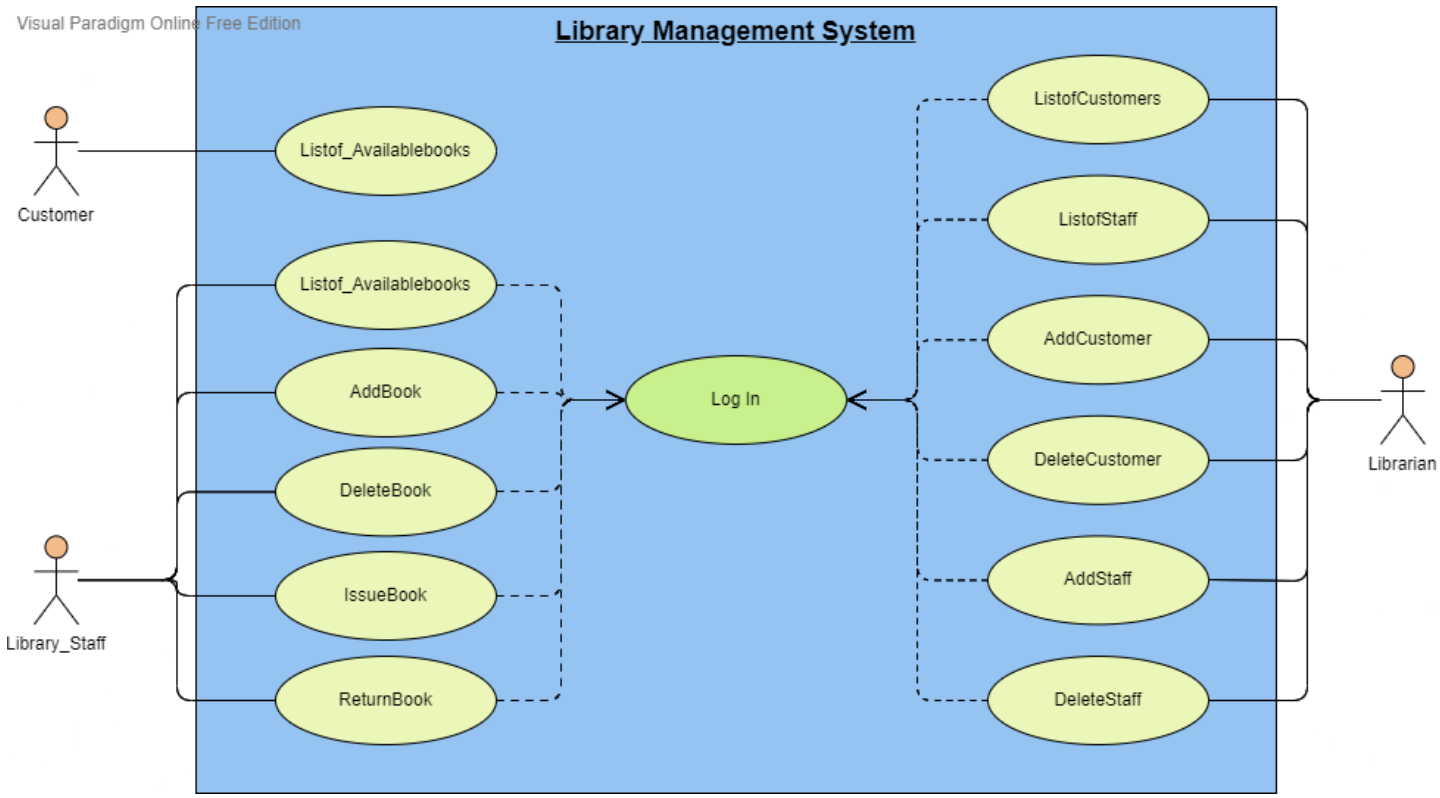
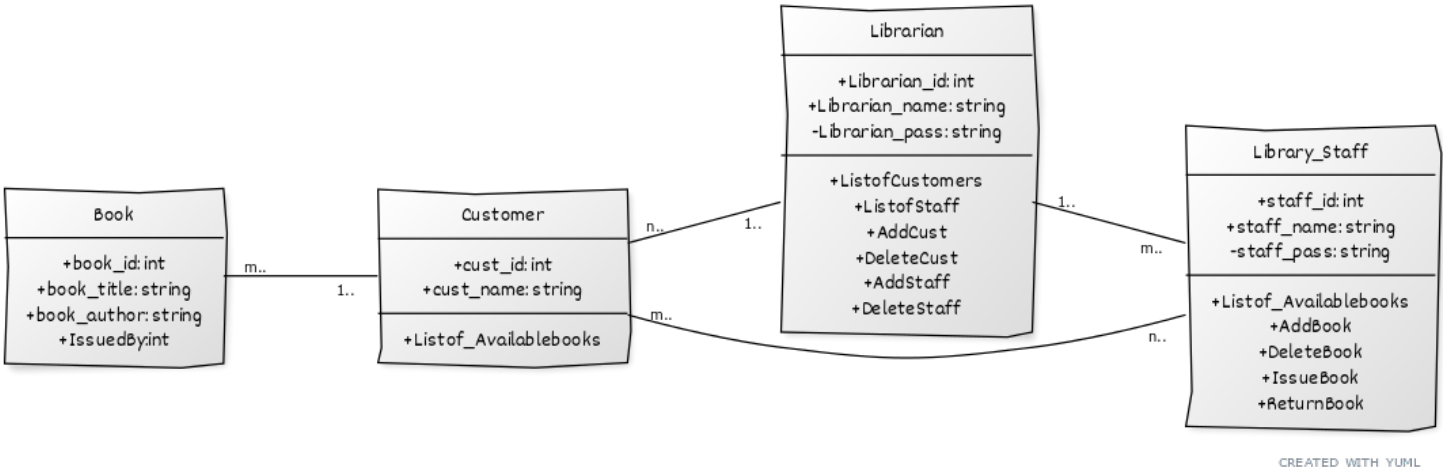
Library Management System

by IMT2020081 Arin Awasthi

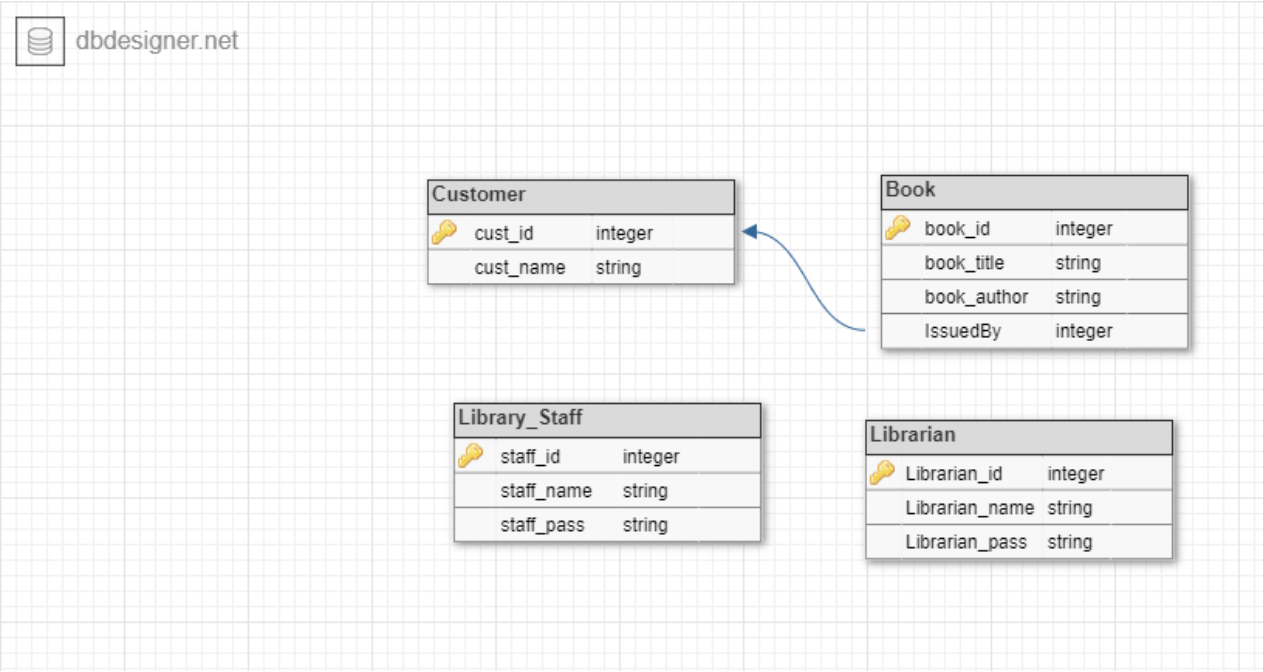
Use Case Diagram -



UML Diagram -

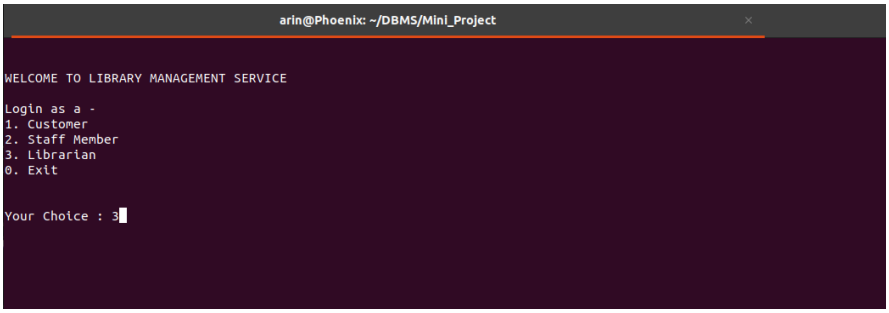


OR Mapping -

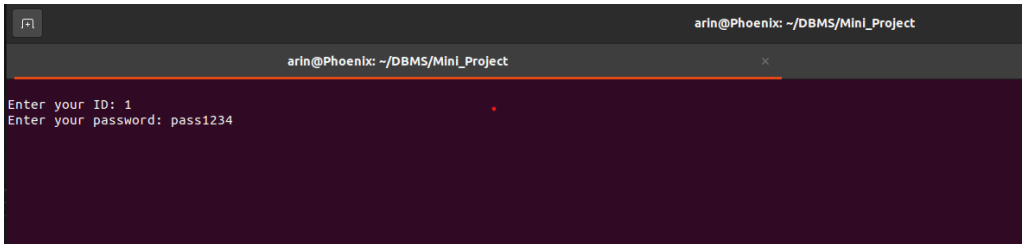


Output Screenshots -

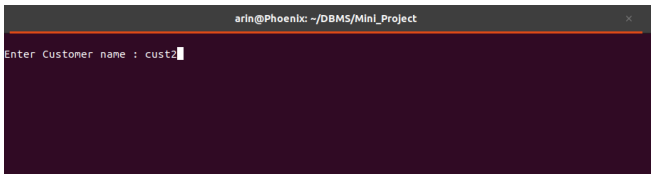
Main Menu -

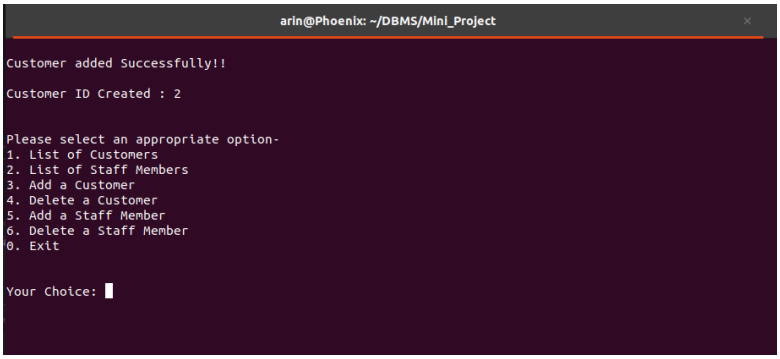


Authentication for Library_Staff and Librarian -

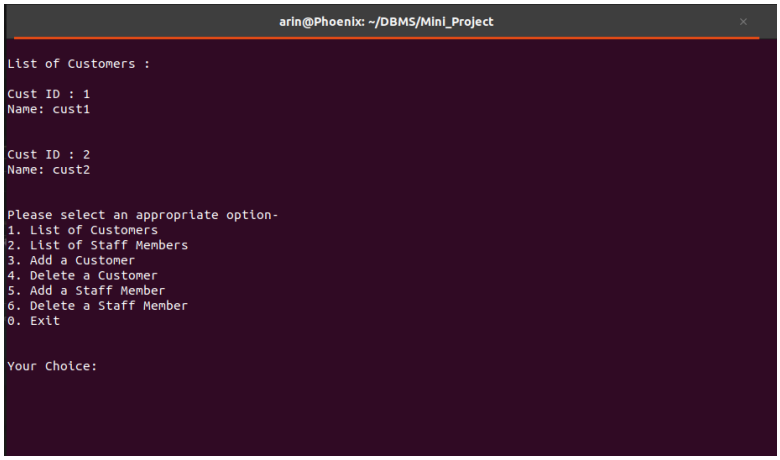


AddCust(shown below) and AddStaff -

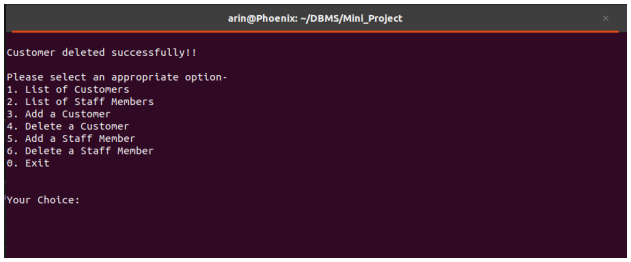


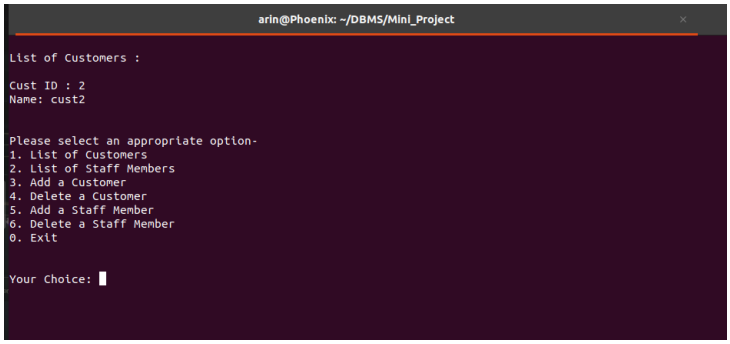


List of Customers (shown below) and List of Staff -

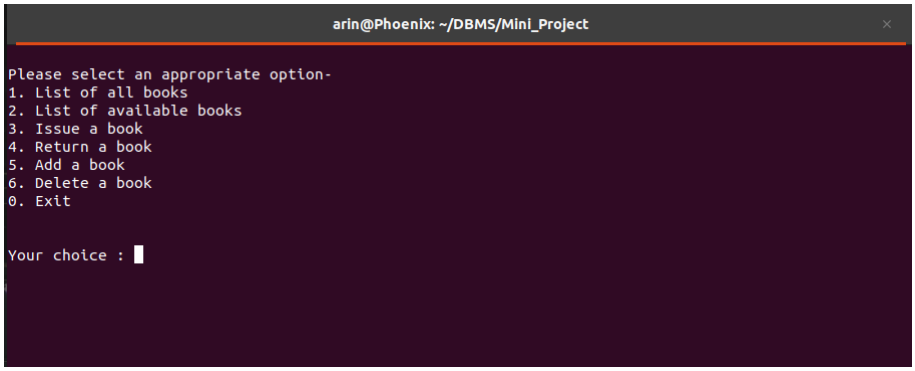


DeleteCust(shown below) and DeleteStaff -



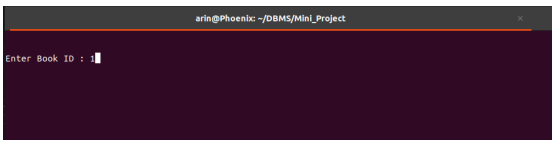


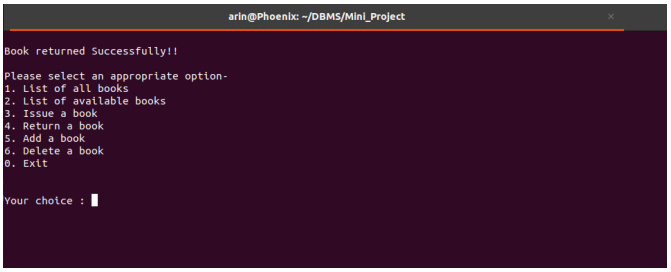
Library_Staff Menu-



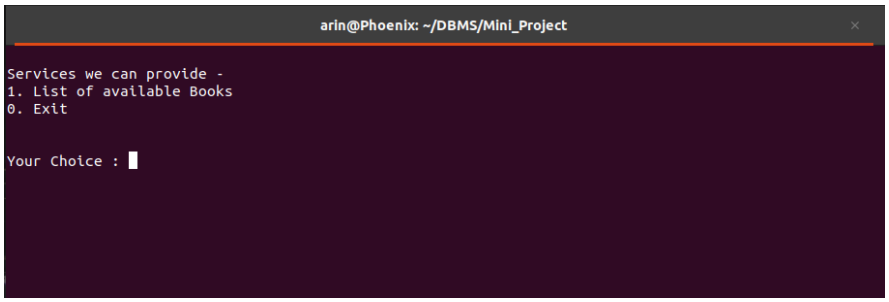
IssueBook -

ReturnBook -

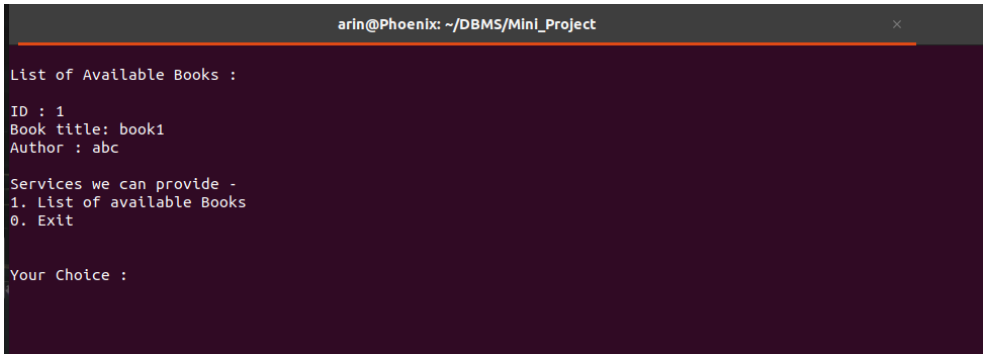




CustomerMenu-



List of Available Books (which can be issued) -



-> 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)