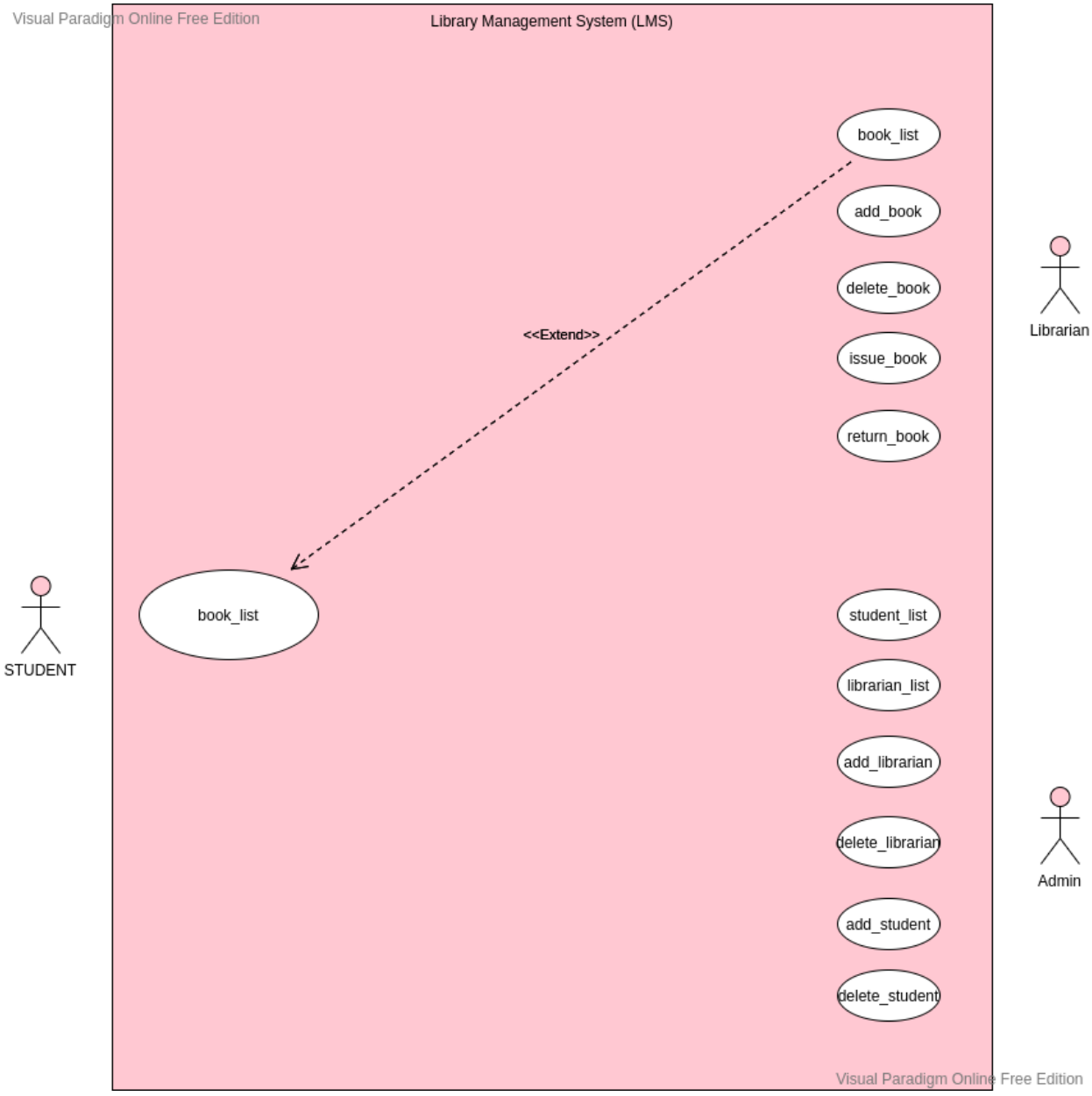
Library Management System

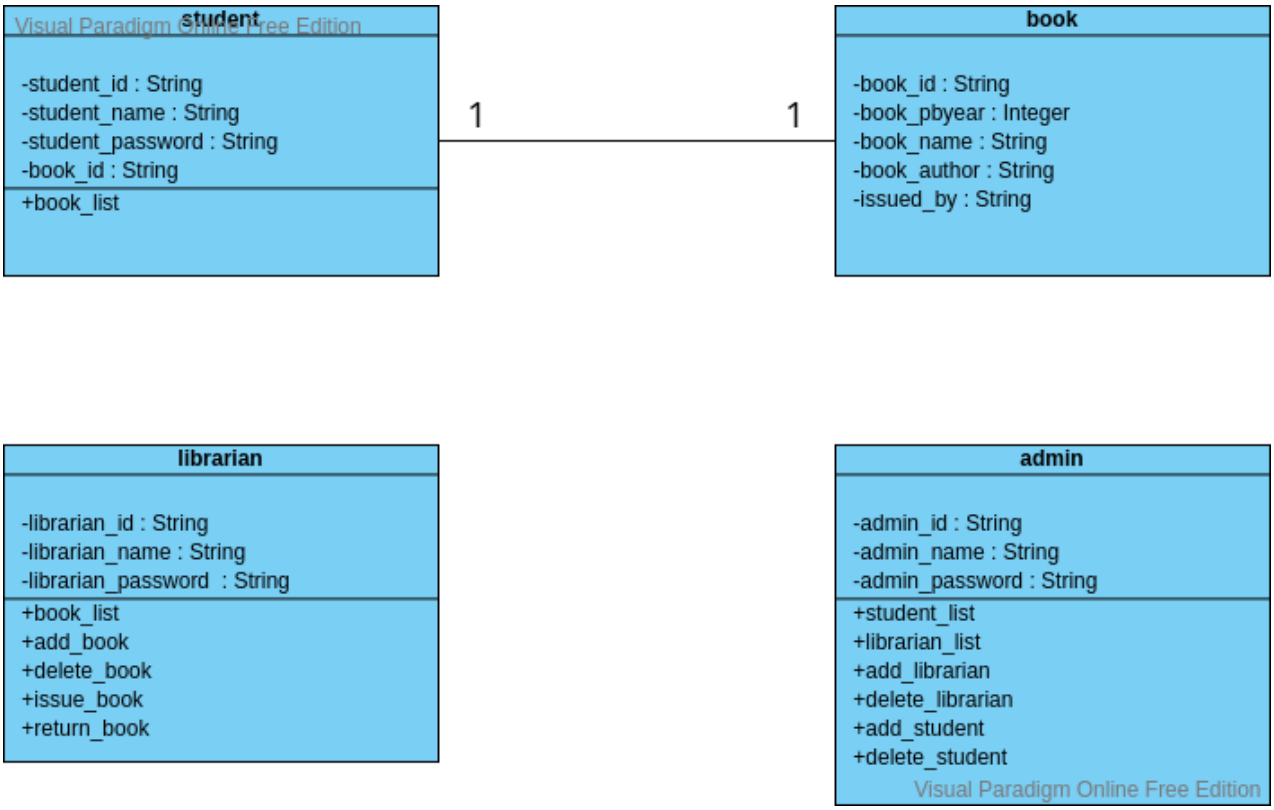
Ashish Gatreddi

IMT2020073

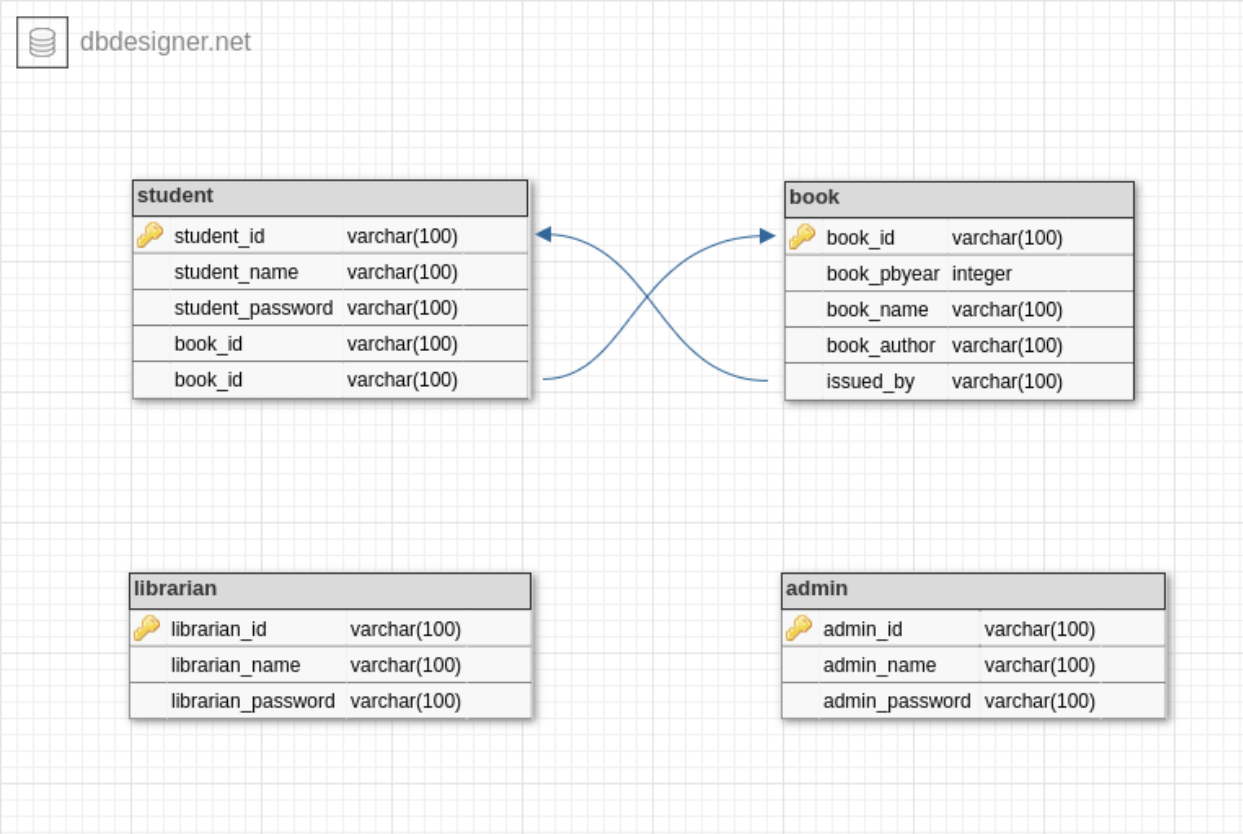
USE CASE DIAGRAM:



UML DIAGRAM:

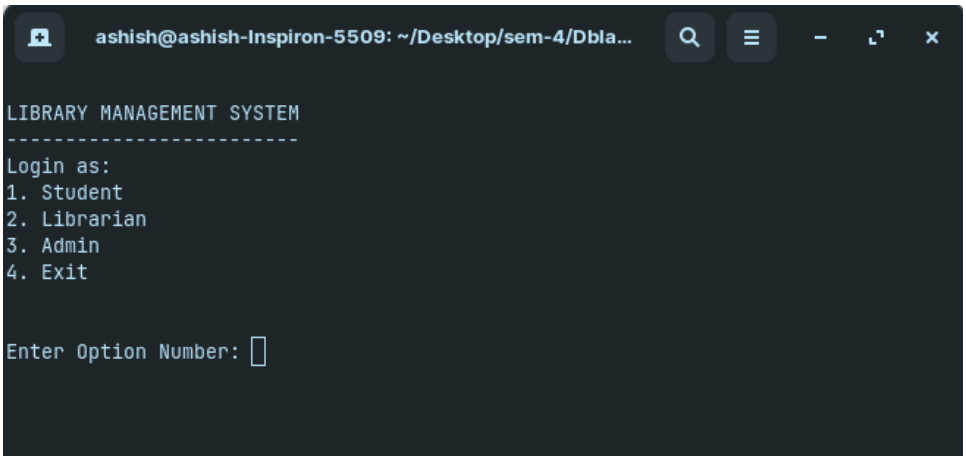

student
-student_id : String
-student_name : String
-student_password : String
-book_id : String
+book_list
1
1
book
-book_id : String
-book_pbyear : Integer
-book_name : String
-book_author : String
-issued_by : String
librarian
-librarian_id : String
-librarian_name : String
-librarian_password : String
+book_list
+add_book
+delete_book
+issue_book
+return_book
admin
-admin_id : String
-admin_name : String
-admin_password : String
+student_list
+librarian_list
+add_librarian
+delete_librarian
+add_student
+delete_student
Visual Paradigm Online Free Edition

OR MAPPING:


dbdesigner.net
student
student_id varchar(100)
student_name varchar(100)
student_password varchar(100)
book_id varchar(100)
book_id varchar(100)
book
book_id varchar(100)
book_pbyear integer
book_name varchar(100)
book_author varchar(100)
issued_by varchar(100)
librarian
librarian_id varchar(100)
librarian_name varchar(100)
librarian_password varchar(100)
admin
admin_id varchar(100)
admin_name varchar(100)
admin_password varchar(100)

Screenshots:

Main menu-

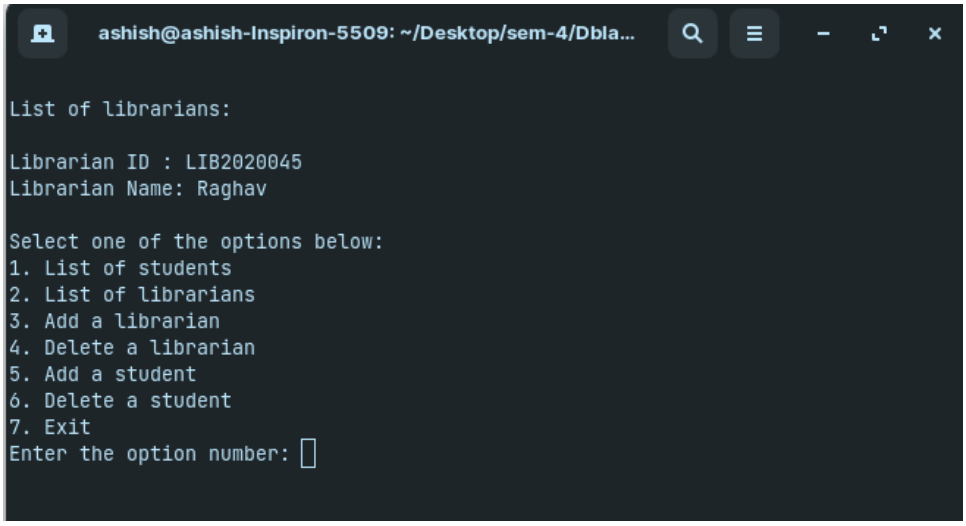


Student menu-

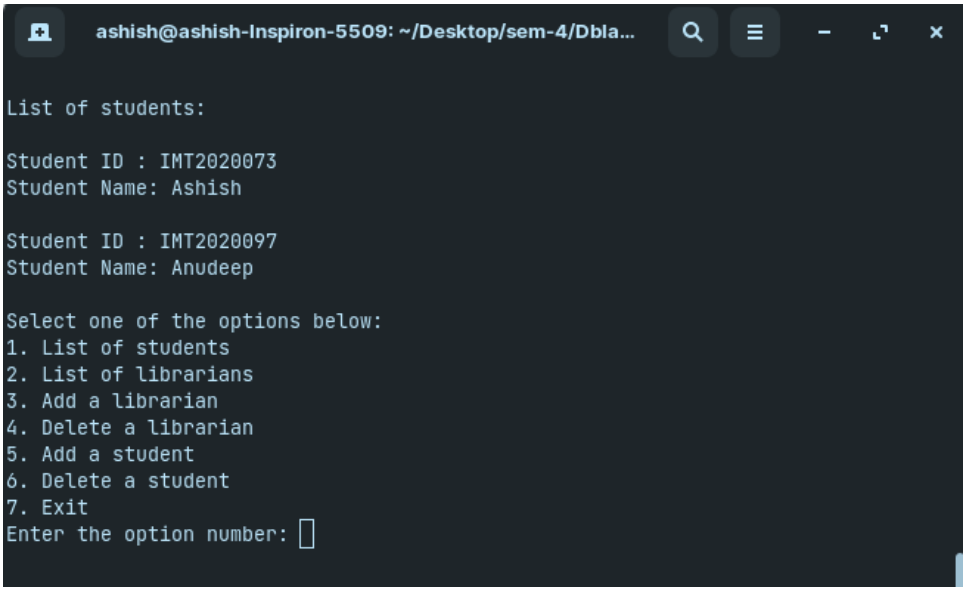
Librarian menu-

Admin menu-

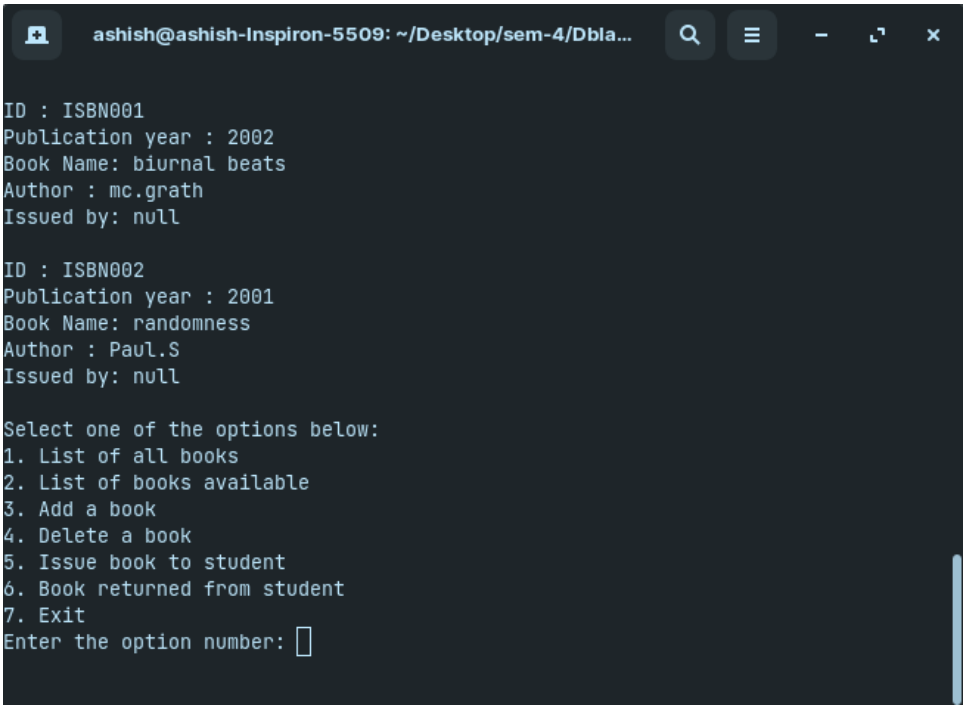
Librarian List-



Student List-



Book List (from librarian POV)-



Adding Librarian-

Adding a Student-

Adding a Book-

Instructions to run the code-

In MySQL command prompt-

```
->CREATE USER 'ashishgatsy'@'localhost' IDENTIFIED BY 'fysv273Ash@g&';
->source sql/LMS_create.sql
->source sql/LMS_alter.sql
->source sql/LMS_data.sql
```

Next run the following on the terminal -

```
javac LMS.java
java -classpath "mysql-connector-java-8.0.18.jar:." LMS
```

After finishing if you wish to drop the database -

in MySQL : source sql/LMS_drop.sql

Credentials-

Admin credentials-

Admin_ID = ADM2020001

Admin_pass = 1234

Librarian credentials-

Librarian_ID = LIB2020001

Librarian_password = pass123