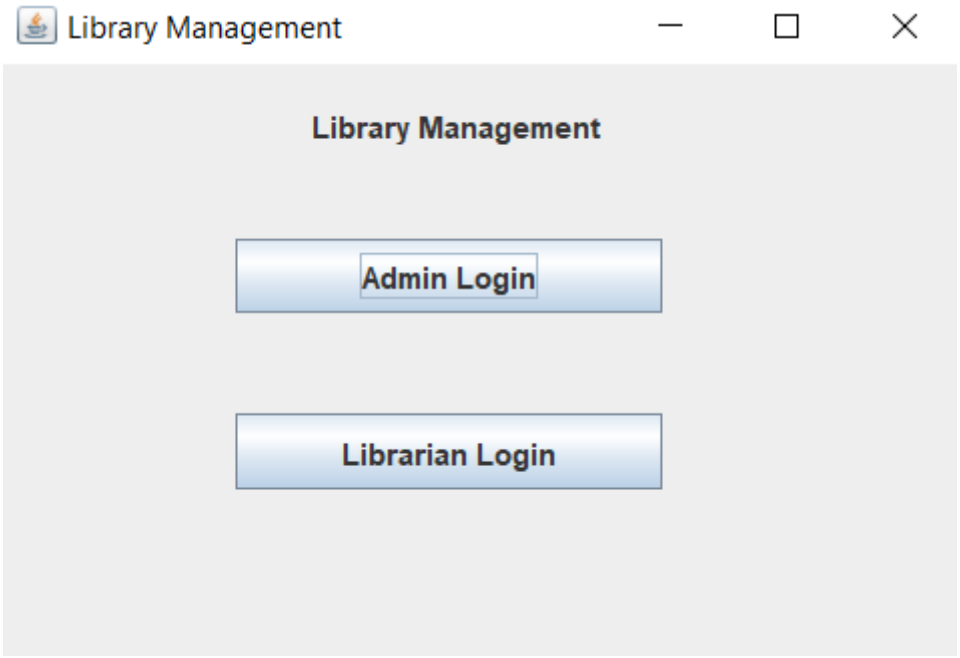
Atharv Lingayat atharvofficial7@gmail.com

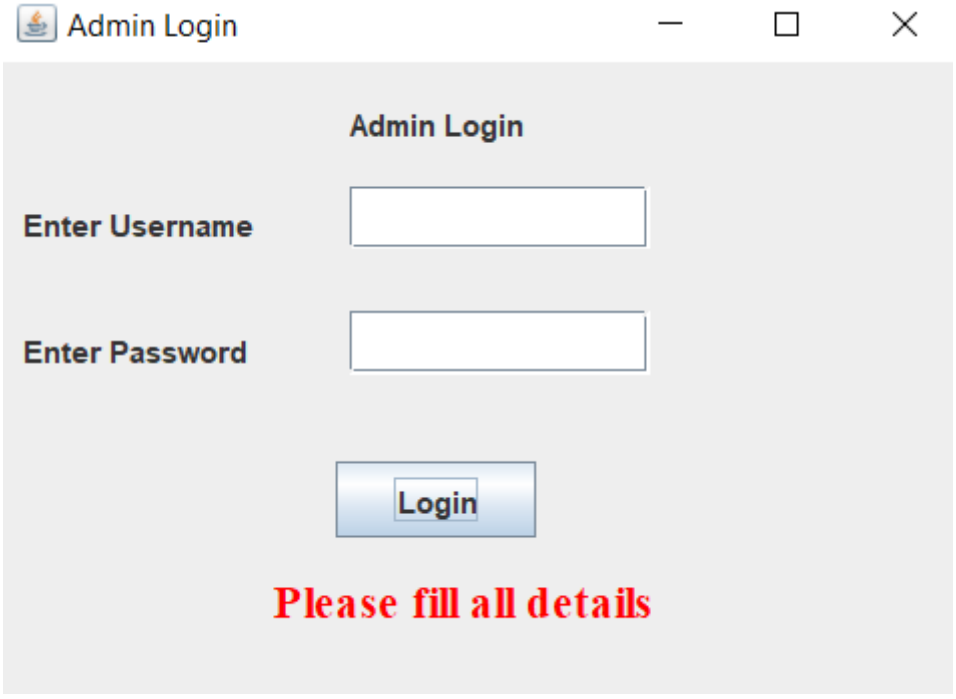
Library Management System

1) Login Selection

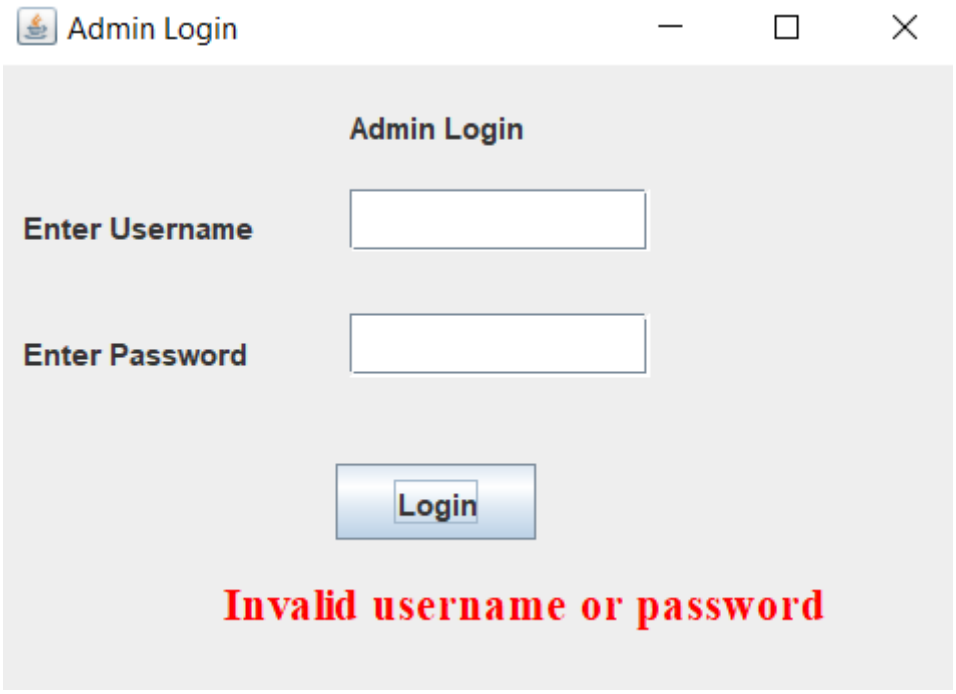


2) Let's Select Admin Login

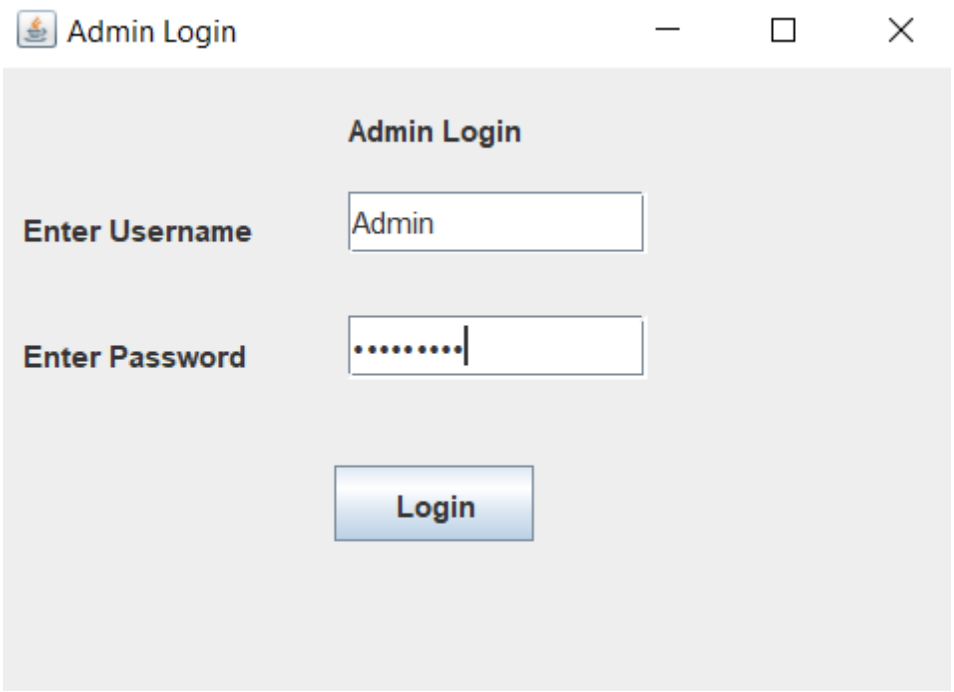
- If button is pressed when fields are empty



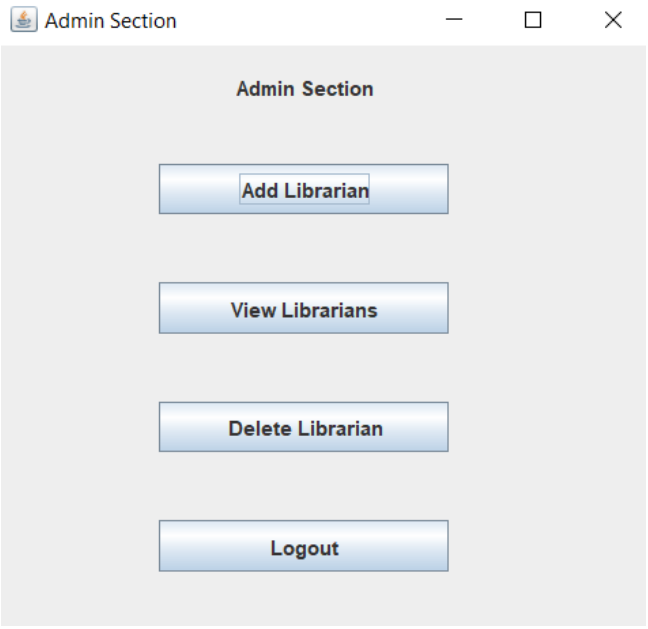
- If wrong username or password is entered



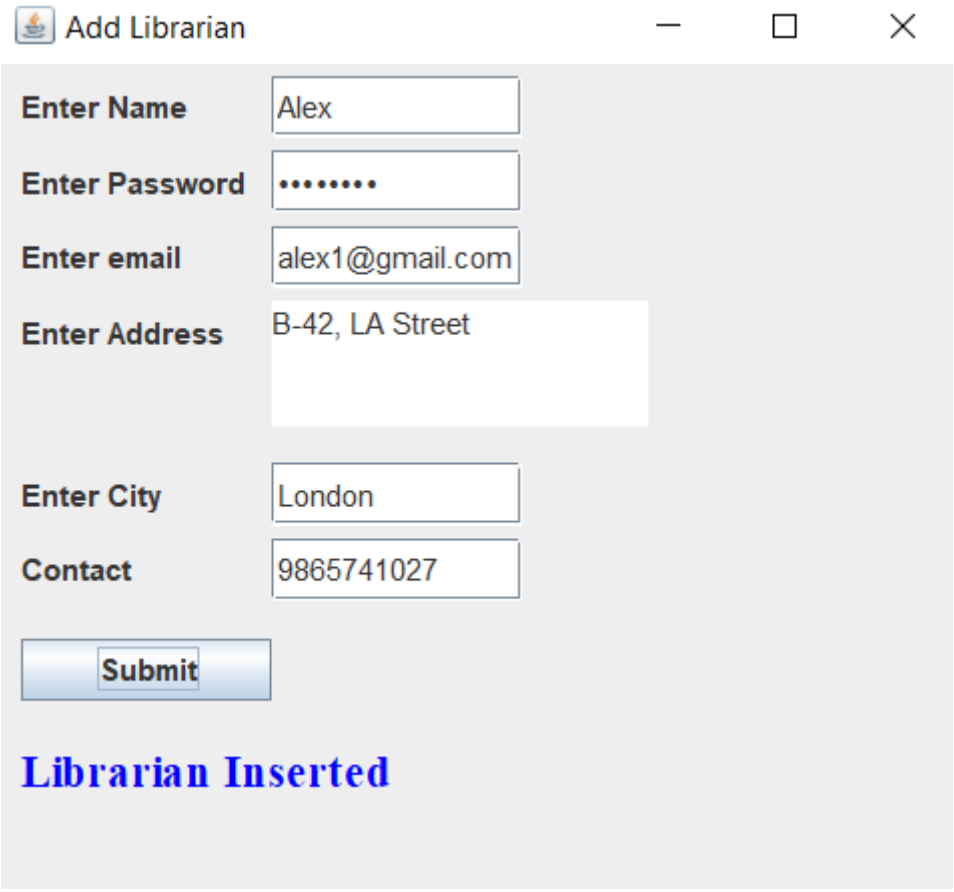
- Entering correct credentials.



3) Admin Options



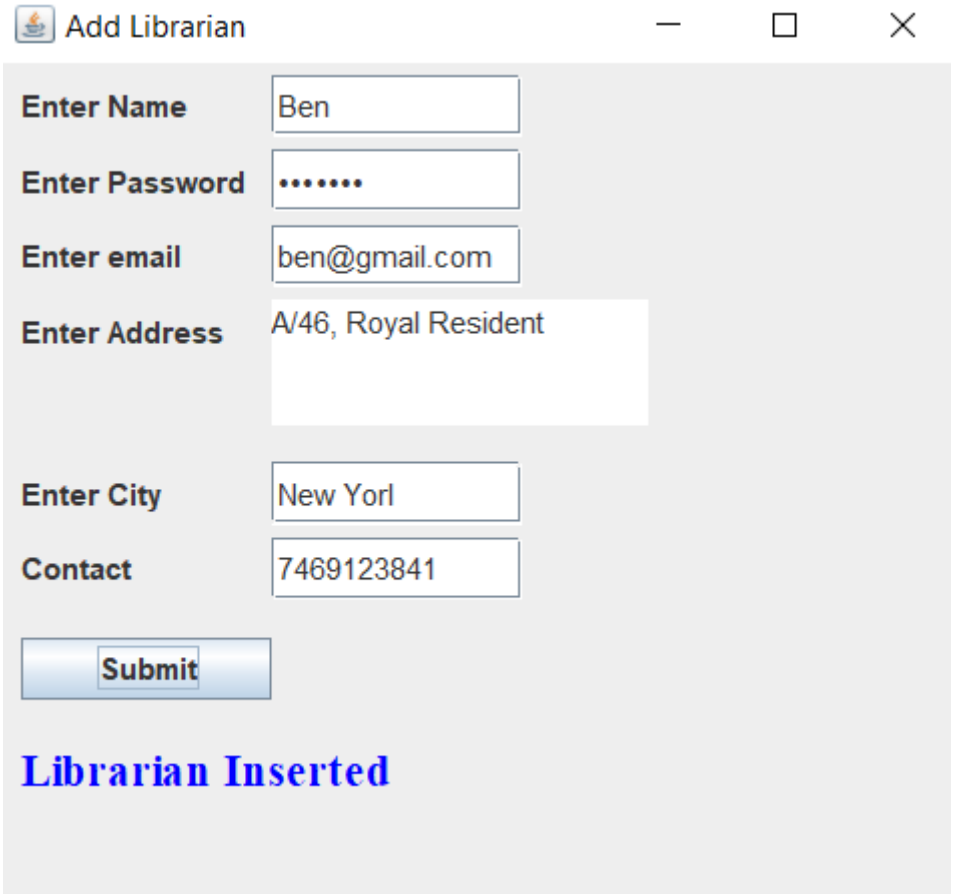
- Adding Librarian to the database



➔ New Librarian added to the database

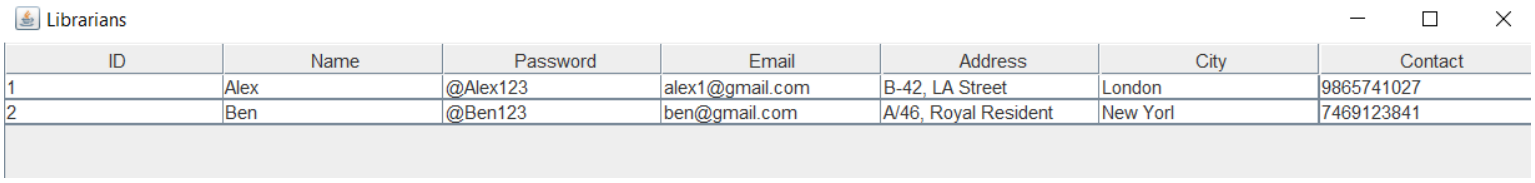
```
mysql> select * from librarian;
+----+------+----------+-----------------+-----------------+--------+------------+
| Id | Name | Password | Email           | Address         | City   | Contact    |
+----+------+----------+-----------------+-----------------+--------+------------+
|  1 | Alex | @Alex123 | alex1@gmail.com | B-42, LA Street | London | 9865741027 |
+----+------+----------+-----------------+-----------------+--------+------------+
1 row in set (0.00 sec)
```

- Let's add another librarian

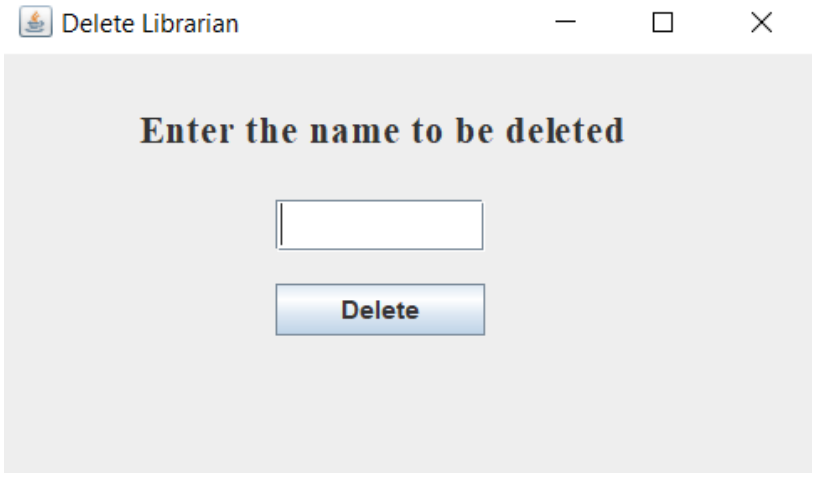



```
mysql> select * from librarian;
+----+------+----------+-----------------+---------------------+----------+------------+
| Id | Name | Password | Email           | Address             | City     | Contact    |
+----+------+----------+-----------------+---------------------+----------+------------+
|  1 | Alex | @Alex123 | alex1@gmail.com | B-42, LA Street     | London   | 9865741027 |
|  2 | Ben  | @Ben123  | ben@gmail.com   | A/46, Royal Resident | New Yorl | 7469123841 |
+----+------+----------+-----------------+---------------------+----------+------------+
2 rows in set (0.00 sec)
```

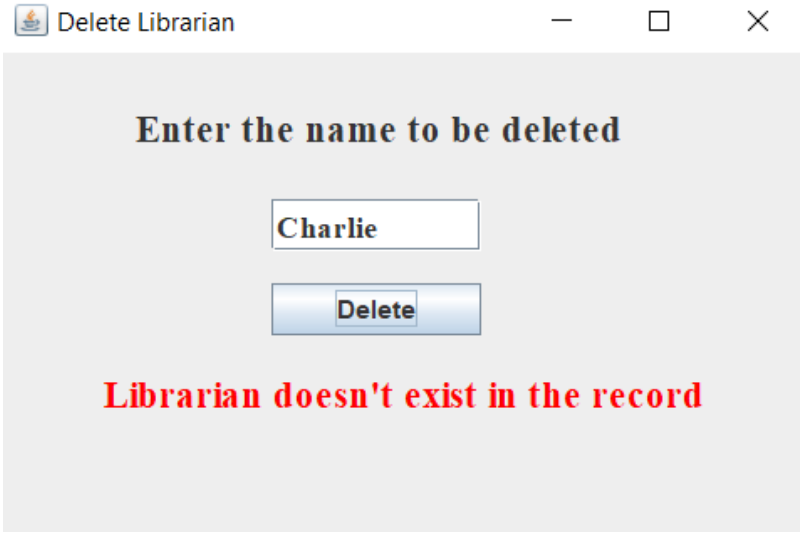
- Now let's see the list of librarians by clicking on "View Librarian" button



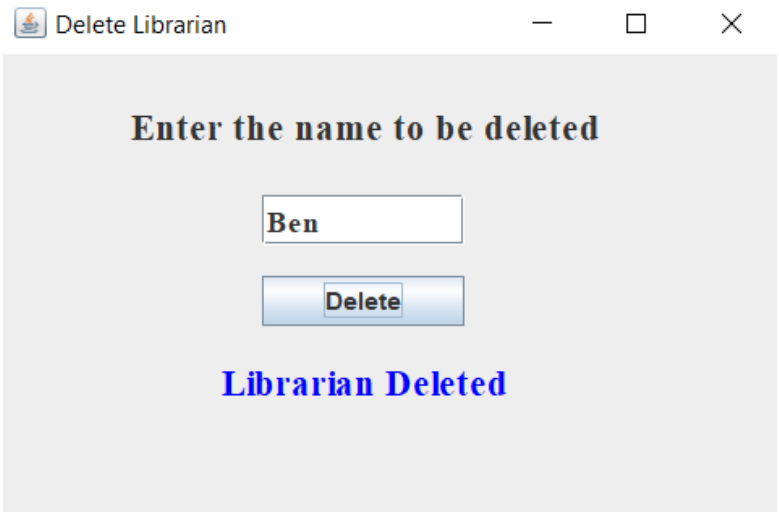
- Delete Librarian option



- If the name entered is not present in the database



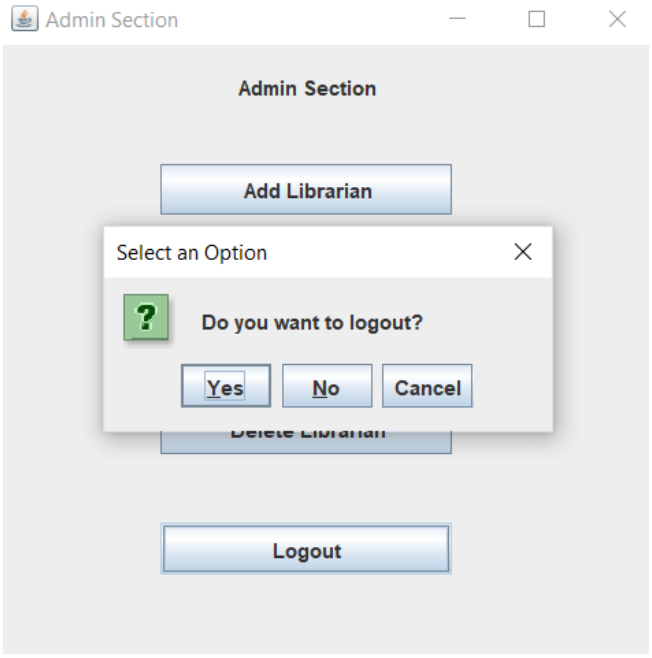
- If proper data is given



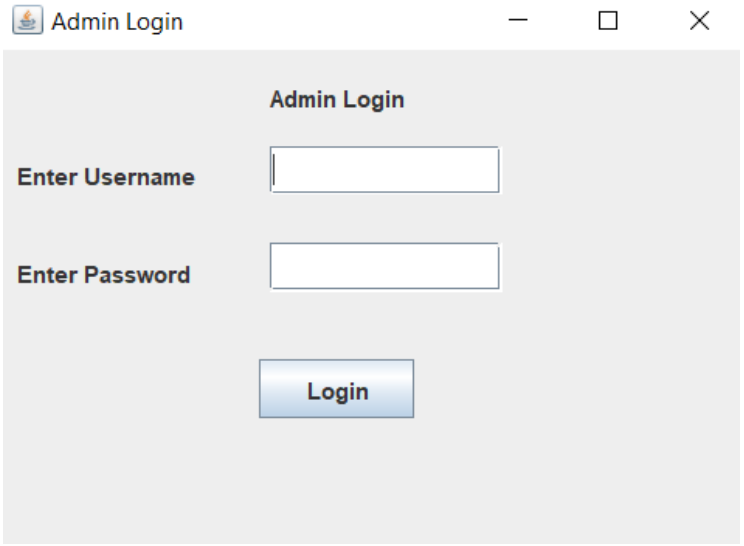
→ Librarian is also deleted from the data base

```
mysql> select * from librarian;
+----+------+----------+-----------------+-----------------+--------+------------+
| Id | Name | Password | Email           | Address         | City   | Contact    |
+----+------+----------+-----------------+-----------------+--------+------------+
|  1 | Alex | @Alex123 | alex1@gmail.com | B-42, LA Street | London | 9865741027 |
+----+------+----------+-----------------+-----------------+--------+------------+
1 row in set (0.05 sec)
```

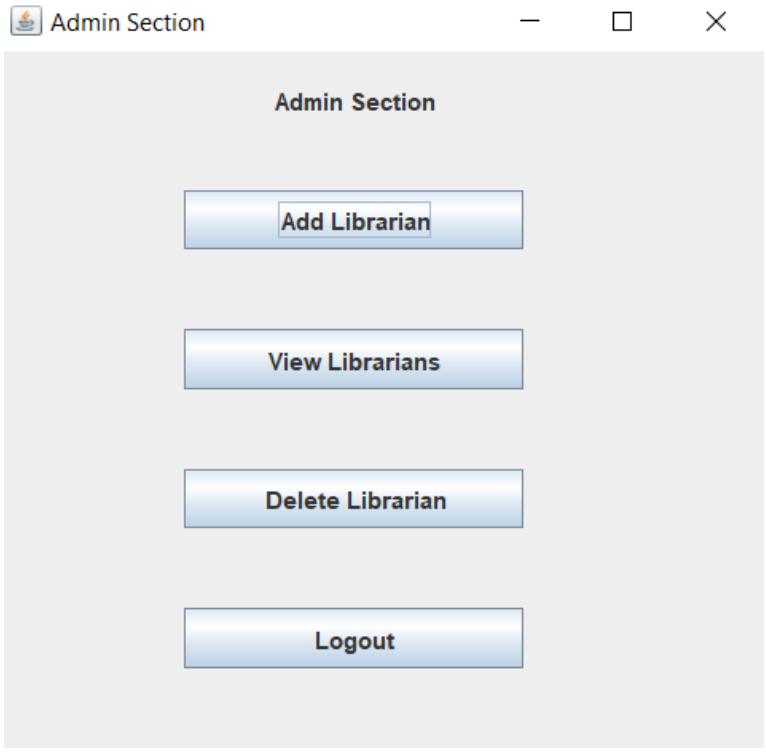
- Clicking on Logout



- Clicking on Yes



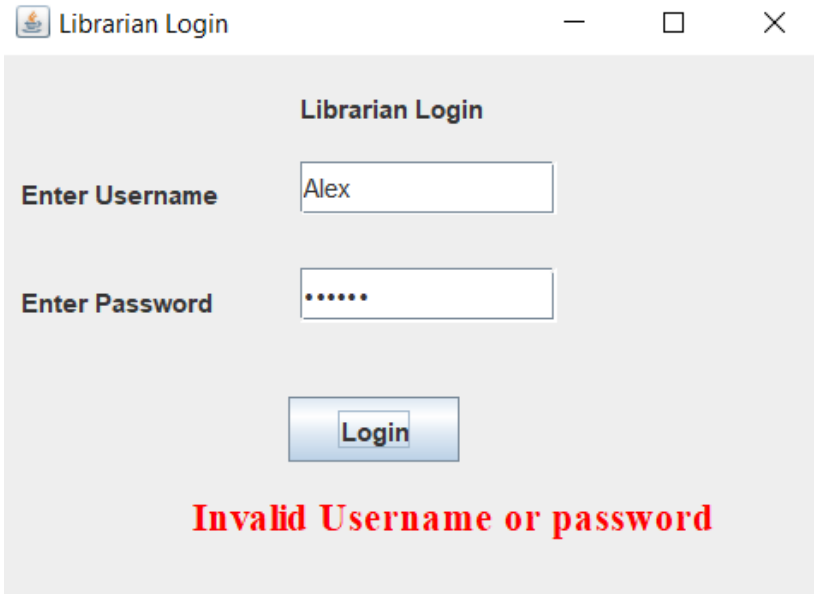
- Clicking on No



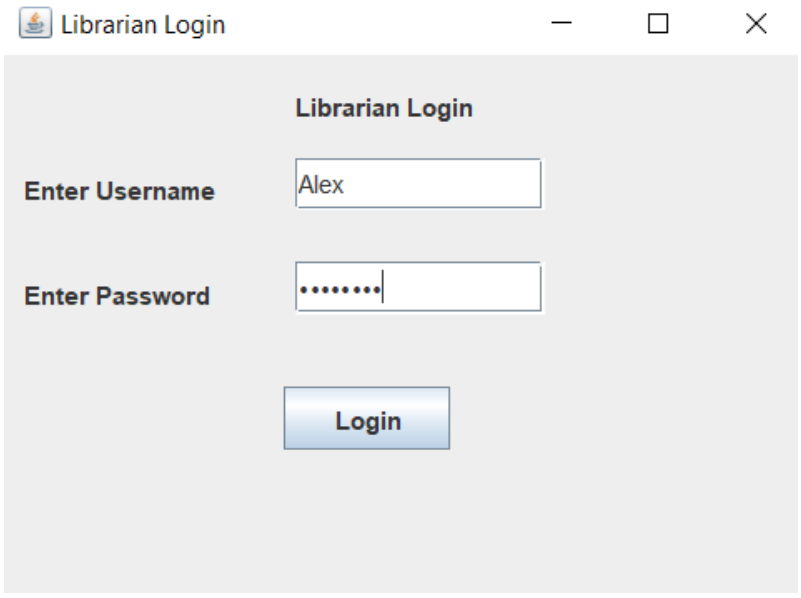
4) Now, Lets have a look at the Librarian Section

Note: Librarian section is only available to those people which are added by the admin.

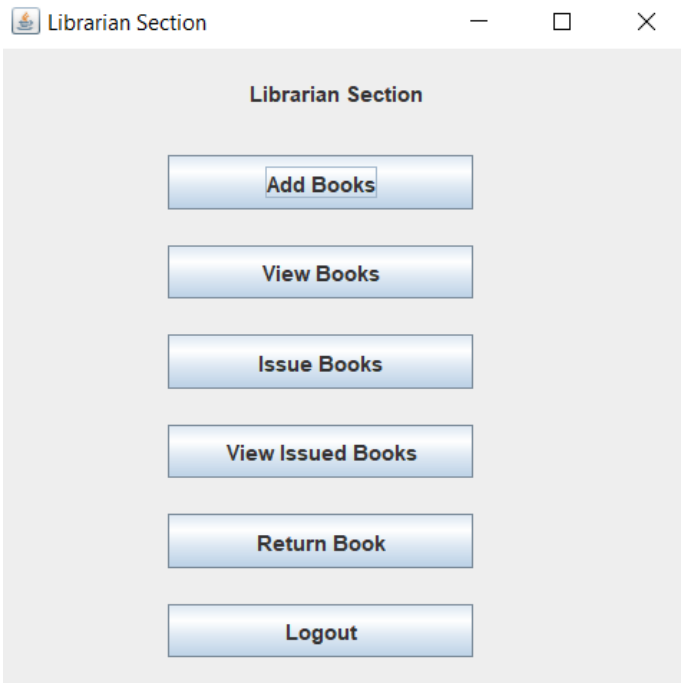
- If wrong details are entered



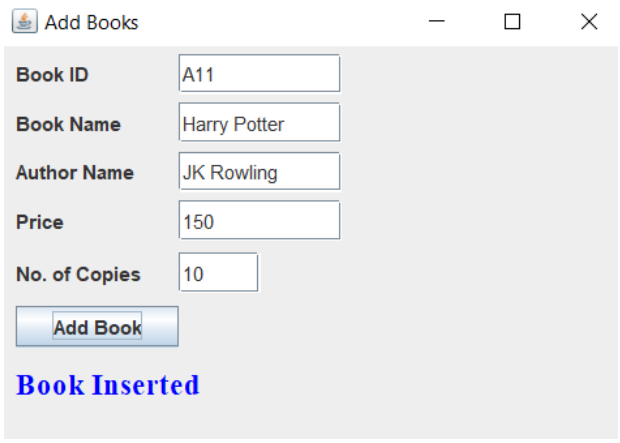
- Entering correct details

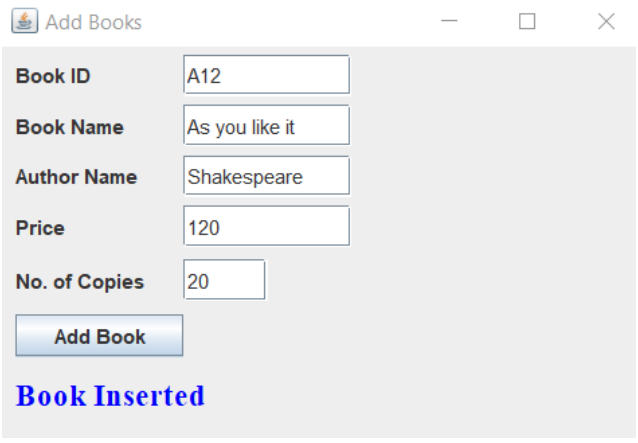


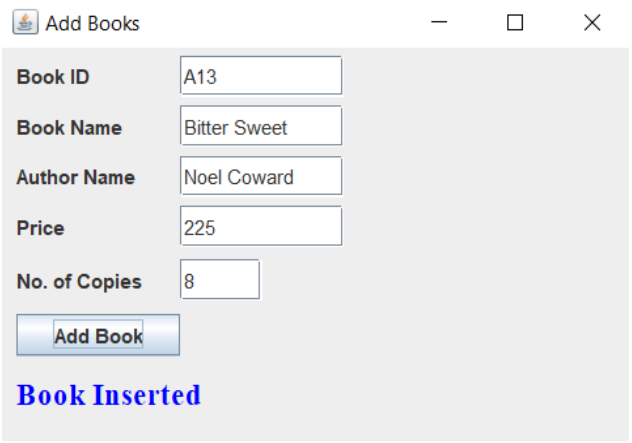
- Librarian Section

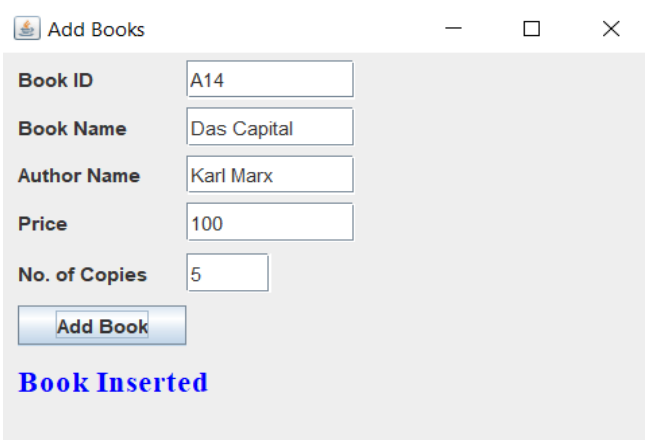


- Adding some books into the record





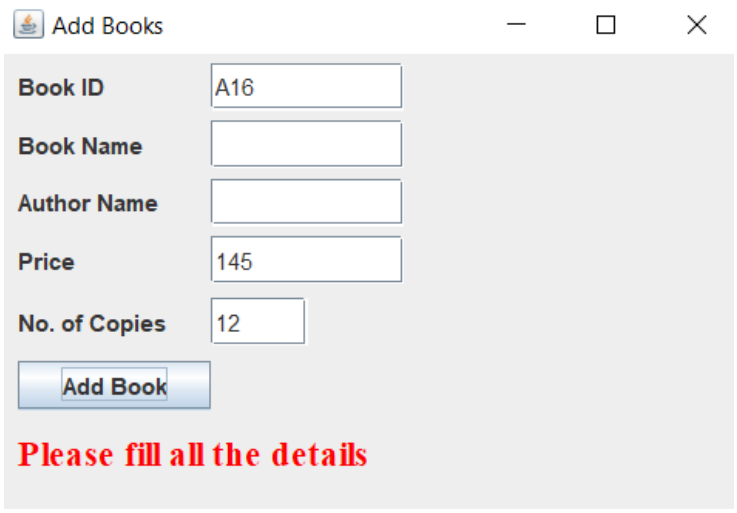




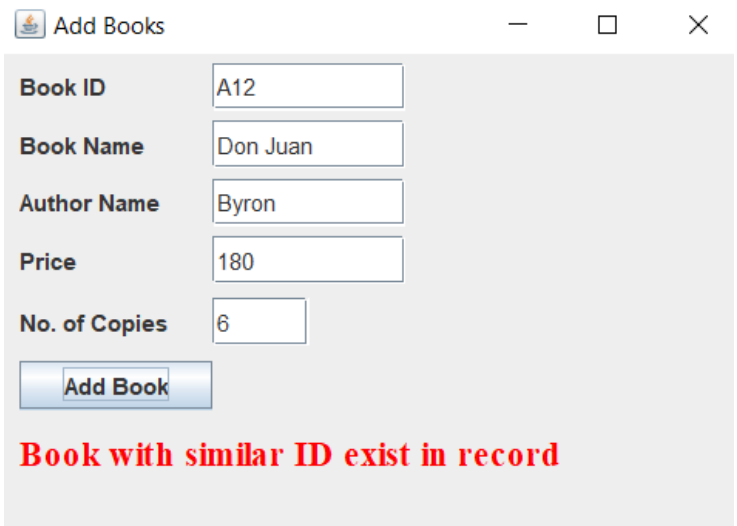
→ Books are also added to the database

```
mysql> select * from books;
+---------+----------------+-------------+-------+--------------+
| Book_ID | Book_Name      | Author      | Price | No_of_copies |
+---------+----------------+-------------+-------+--------------+
| A11     | Harry Potter   | JK Rowling  |   150 |           10 |
| A12     | As you like it | Shakespeare |   120 |           20 |
| A13     | Bitter Sweet   | Noel Coward |   225 |            8 |
| A14     | Das Capital    | Karl Marx   |   100 |            5 |
+---------+----------------+-------------+-------+--------------+
4 rows in set (0.00 sec)
```

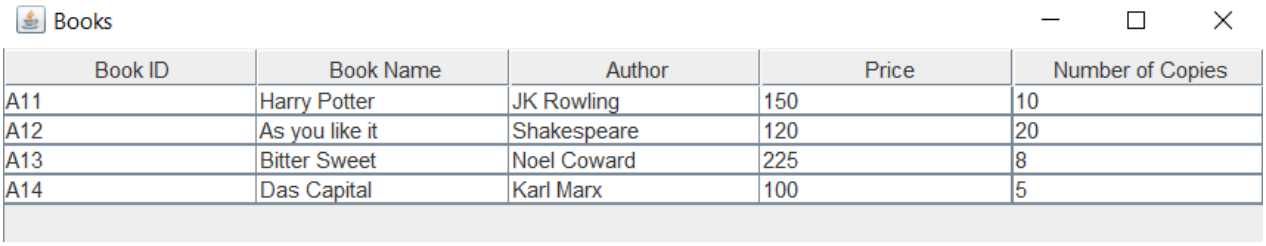
- If fields are left empty



- If librarian enters book id which is already present in record

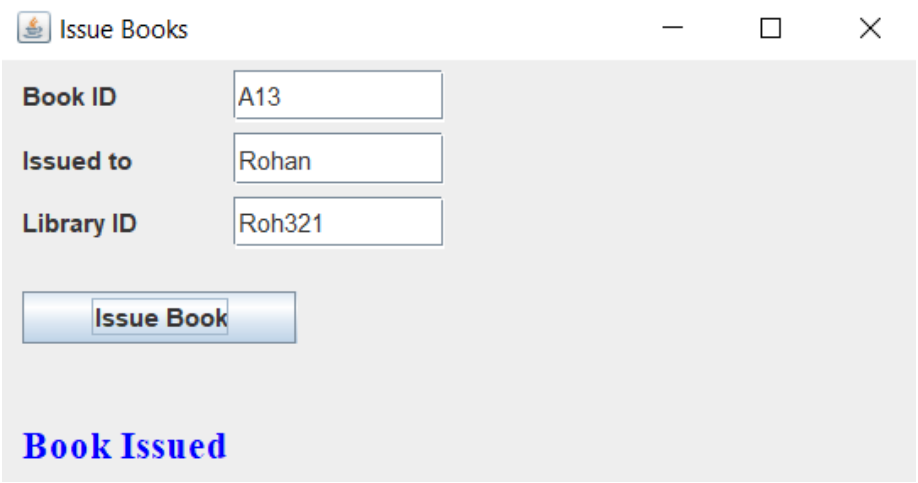


- Clicking on “View Books” button



Book ID	Book Name	Author	Price	Number of Copies
A11	Harry Potter	JK Rowling	150	10
A12	As you like it	Shakespeare	120	20
A13	Bitter Sweet	Noel Coward	225	8
A14	Das Capital	Karl Marx	100	5

- Issuing book



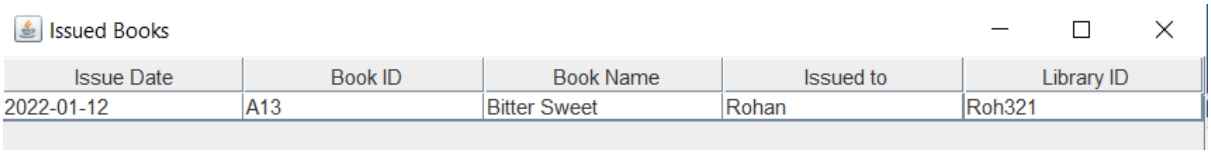
➔ Issue data is also added to the database

```
mysql> select * from issuebooks;
+------------+---------+--------------+-----------+------------+
| Issue_Date | Book_ID | Boook_Name   | Issued_To | Library_ID |
+------------+---------+--------------+-----------+------------+
| 2022-01-12 | A13     | Bitter Sweet | Rohan     | Roh321     |
+------------+---------+--------------+-----------+------------+
1 row in set (0.00 sec)
```

- After a book is issued to someone the number of copies of that particular gets decremented by 1 book in the books database

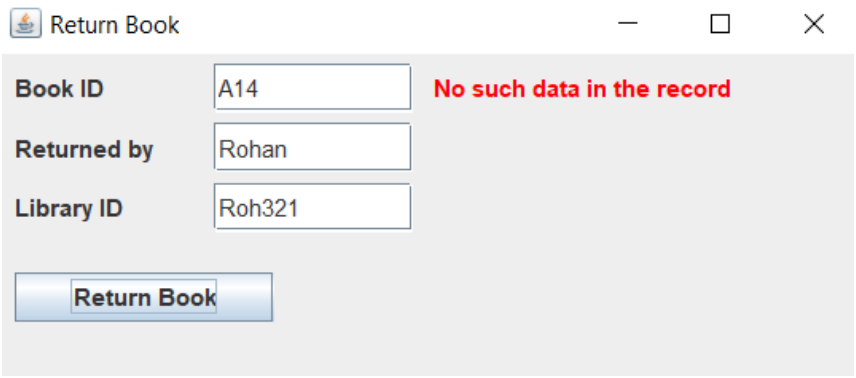
```
mysql> select * from books;
+---------+---------------+-------------+-------+--------------+
| Book_ID | Book_Name     | Author      | Price | No_of_copies |
+---------+---------------+-------------+-------+--------------+
| A11     | Harry Potter  | JK Rowling  |   150 |           10 |
| A12     | As you like it| Shakespeare |   120 |           20 |
| A13     | Bitter Sweet  | Noel Coward |   225 |            7 |
| A14     | Das Capital   | Karl Marx   |   100 |            5 |
+---------+---------------+-------------+-------+--------------+
4 rows in set (0.05 sec)
```

- To see the issued books data, simply click on “View Issued Books” button

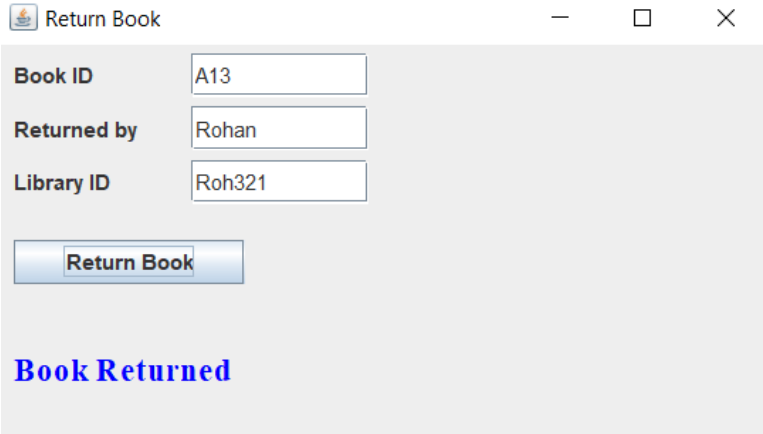


- Returning book

- If the return data doesn’t match from issue books data



- If correct data is entered



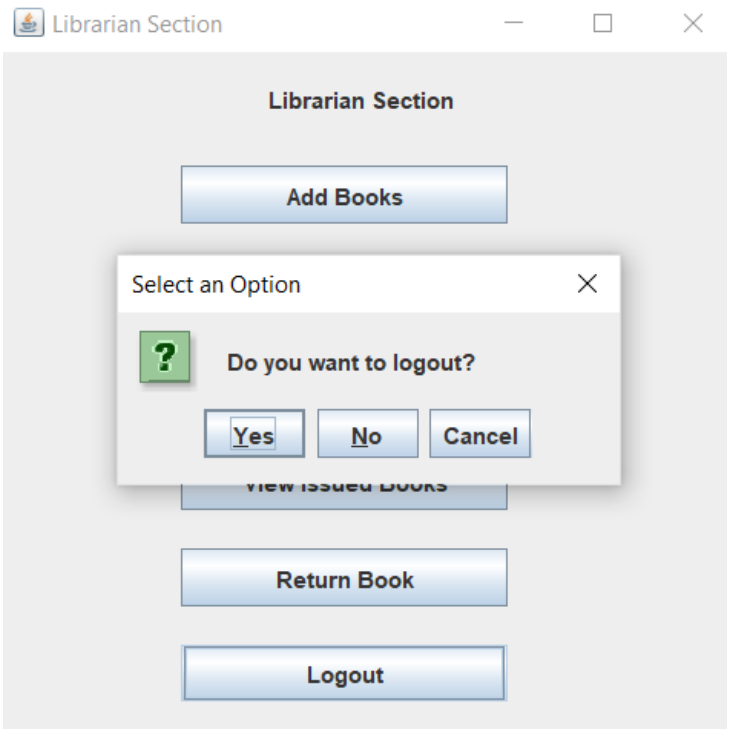
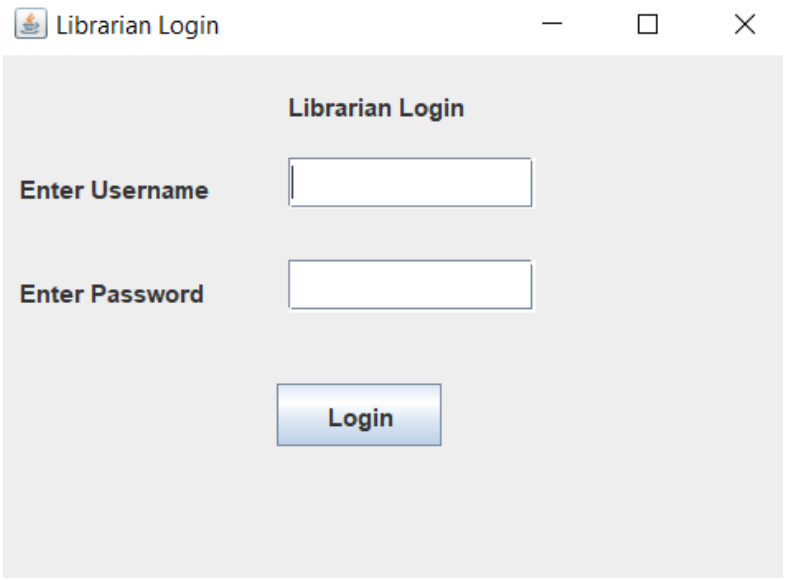
→ Return data is also added to the database

```
mysql> select * from returnbook;
+-------------+---------+--------------+-------------+------------+
| Return_Date | Book_ID | Book_Name    | Returned_by | Library_ID |
+-------------+---------+--------------+-------------+------------+
| 2022-01-12  | A13     | Bitter Sweet | Rohan       | Roh321     |
+-------------+---------+--------------+-------------+------------+
1 row in set (0.00 sec)
```

- After a book is returned by someone the number of copies of that particular gets incremented by 1 book in the books database

```
mysql> select * from books;
+---------+----------------+-------------+-------+--------------+
| Book_ID | Book_Name      | Author      | Price | No_of_copies |
+---------+----------------+-------------+-------+--------------+
| A11     | Harry Potter   | JK Rowling  |   150 |           10 |
| A12     | As you like it | Shakespeare |   120 |           20 |
| A13     | Bitter Sweet   | Noel Coward |   225 |            8 |
| A14     | Das Capital    | Karl Marx   |   100 |            5 |
+---------+----------------+-------------+-------+--------------+
4 rows in set (0.00 sec)
```

- Logout



- On click of yes