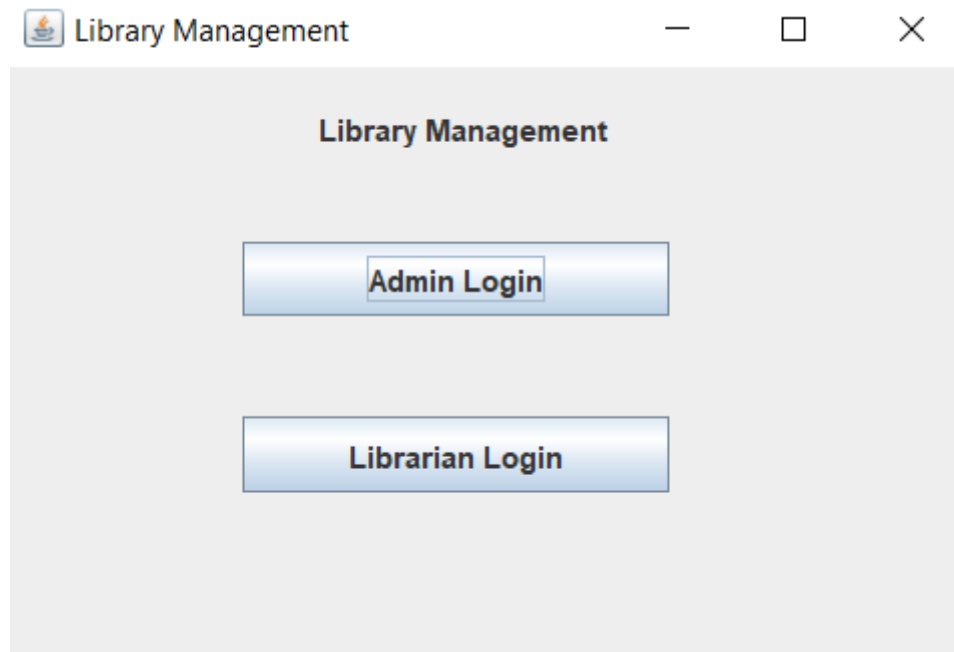


Library Management System

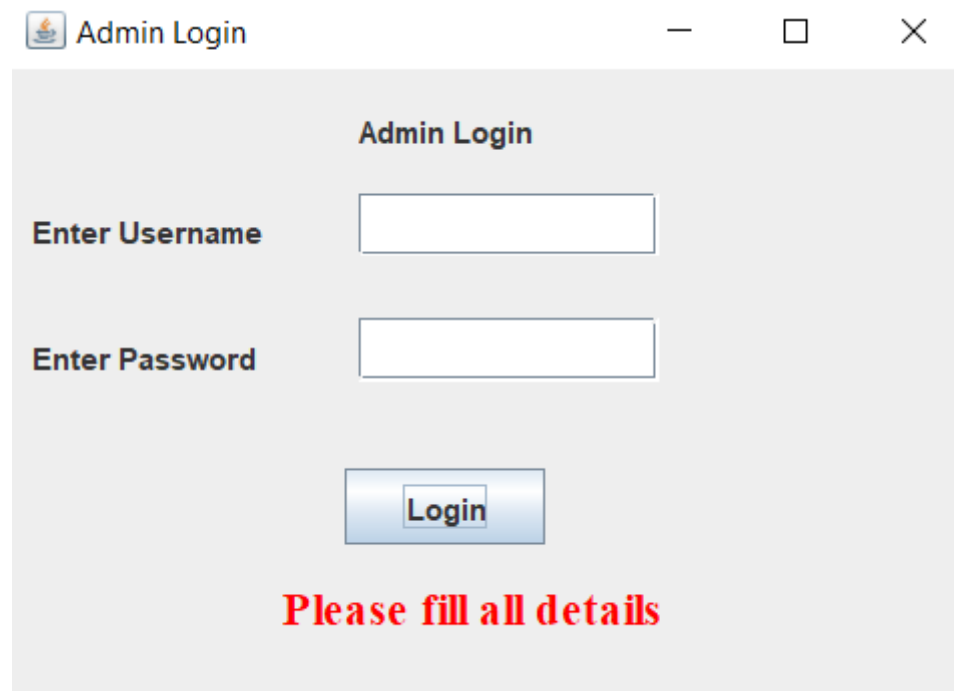
1) Login Selection



The screenshot shows a window titled "Library Management" with a standard Windows-style title bar (minimize, maximize, close buttons). The window has a light gray background. At the top center, the text "Library Management" is displayed. Below this, there are two blue buttons with white text. The first button is labeled "Admin Login" and the second button is labeled "Librarian Login".

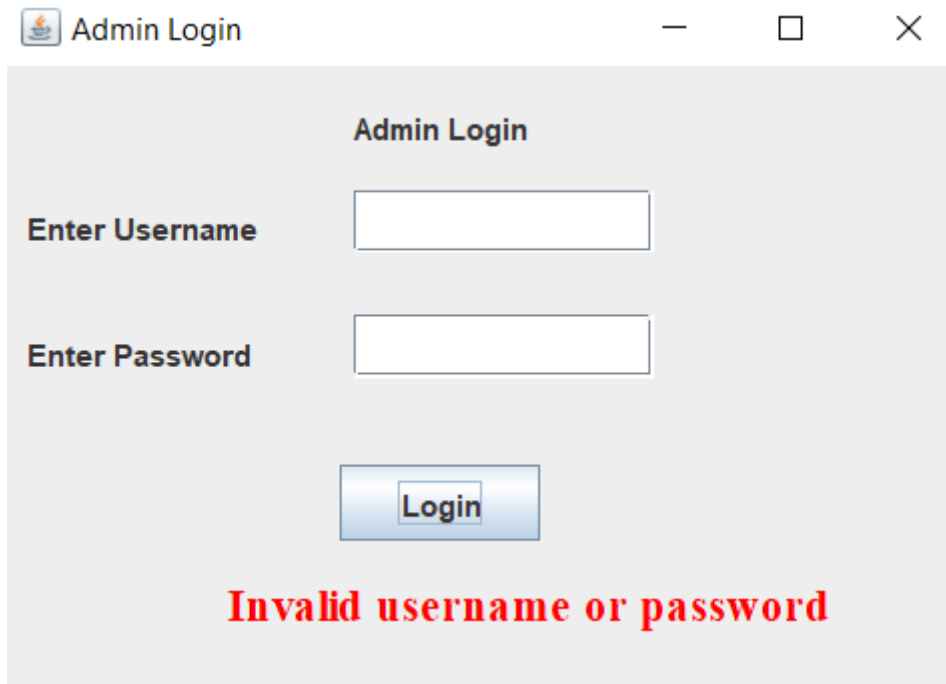
2) Let's Select Admin Login

- If button is pressed when fields are empty



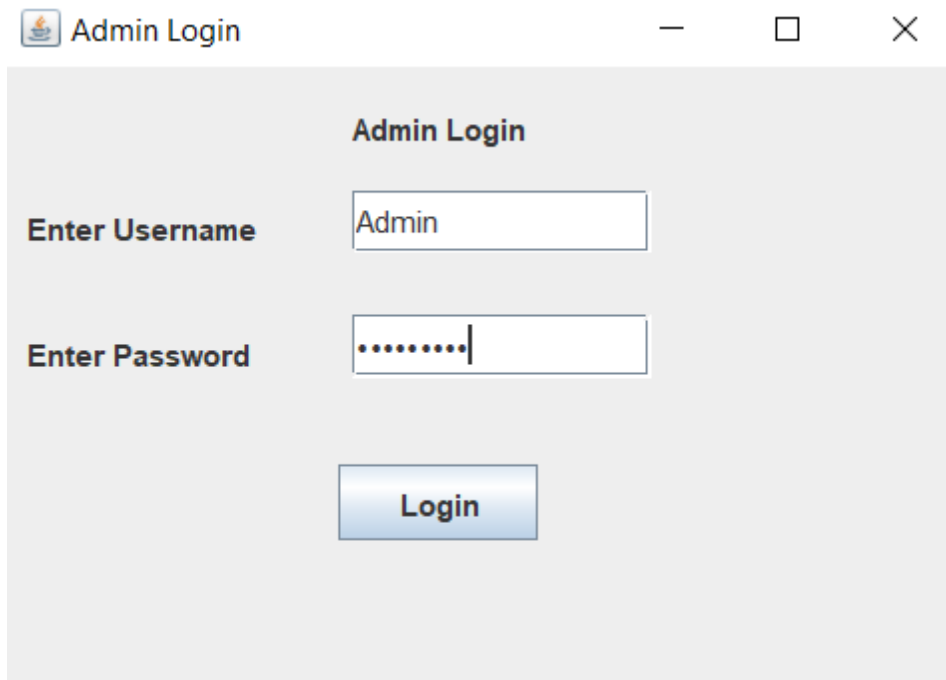
The screenshot shows a window titled "Admin Login" with a standard Windows-style title bar. The window has a light gray background. At the top center, the text "Admin Login" is displayed. Below this, there are two input fields. The first field is labeled "Enter Username" and the second field is labeled "Enter Password". Below the input fields, there is a blue button with white text labeled "Login". At the bottom of the window, the text "Please fill all details" is displayed in red.

- If wrong username or password is entered



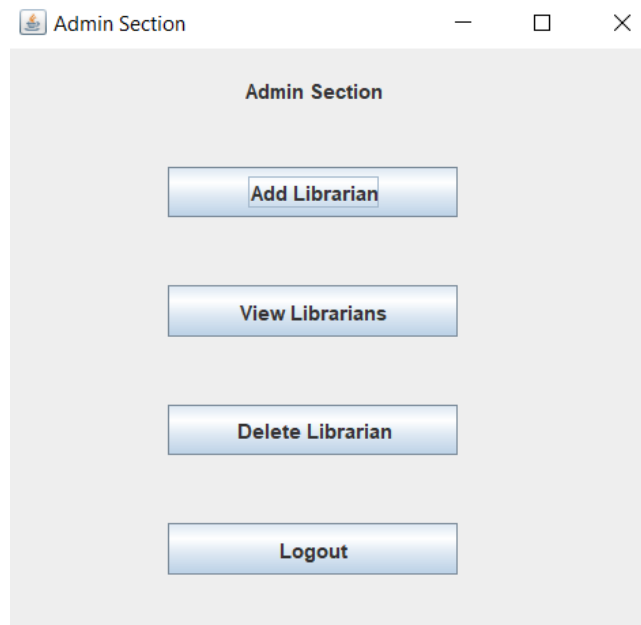
The image shows a window titled "Admin Login" with a standard Windows-style title bar (minimize, maximize, close buttons). Inside the window, the title "Admin Login" is centered at the top. Below the title, there are two labels: "Enter Username" and "Enter Password", each followed by a text input field. Below these fields is a blue "Login" button. At the bottom of the window, a red error message "Invalid username or password" is displayed in a bold, sans-serif font.

- Entering correct credentials.



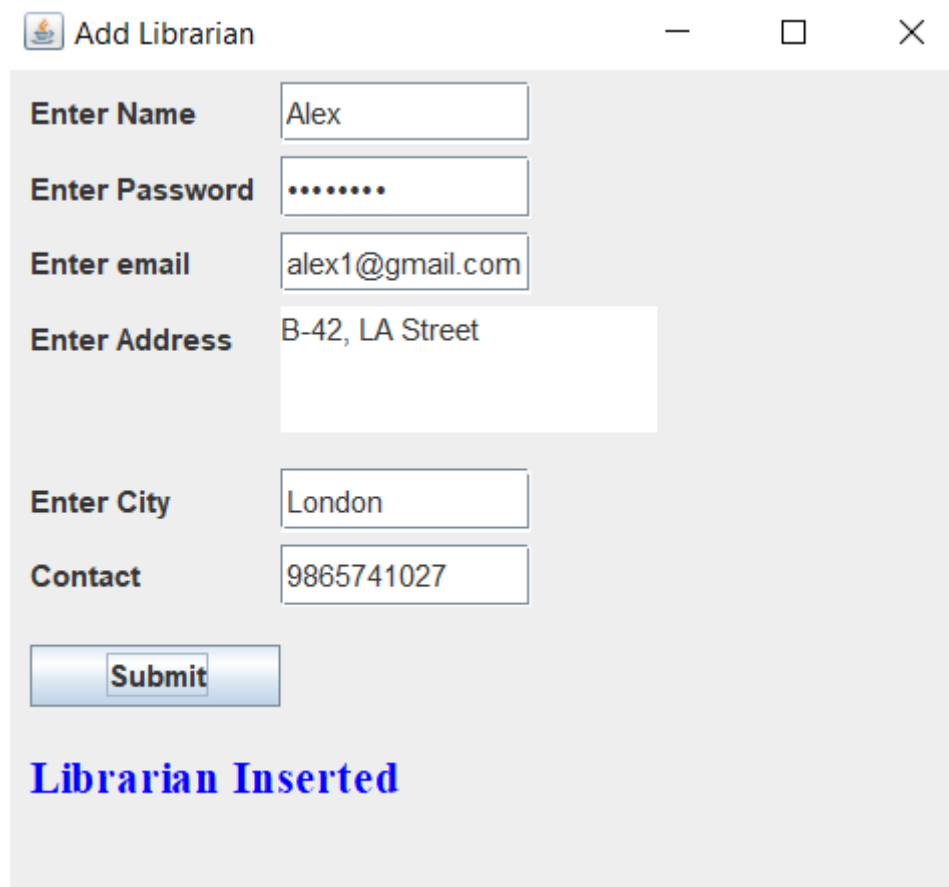
The image shows the same "Admin Login" window. In this state, the "Enter Username" field contains the text "Admin". The "Enter Password" field contains a series of dots, indicating that the password is masked. The "Login" button remains visible at the bottom of the window.

3) Admin Options



A screenshot of a web application window titled "Admin Section". The window has a standard title bar with a minimize button, a maximize button, and a close button. The main content area is light gray and contains four blue buttons with white text, arranged vertically in the center. The buttons are labeled "Add Librarian", "View Librarians", "Delete Librarian", and "Logout".

- Adding Librarian to the database




A screenshot of a web application window titled "Add Librarian". The window has a standard title bar with a minimize button, a maximize button, and a close button. The main content area is light gray and contains a form with several input fields and a submit button. The form fields are labeled "Enter Name", "Enter Password", "Enter email", "Enter Address", "Enter City", and "Contact". The "Enter Name" field contains the text "Alex". The "Enter Password" field contains a series of dots. The "Enter email" field contains the text "alex1@gmail.com". The "Enter Address" field contains the text "B-42, LA Street". The "Enter City" field contains the text "London". The "Contact" field contains the text "9865741027". Below the form fields is a blue button with white text labeled "Submit". Below the button is a message "Librarian Inserted" in blue text.

➔ 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

 Add Librarian — □ ×

Enter Name

Ben

Enter Password

.....

Enter email

ben@gmail.com

Enter Address

A/46, Royal Resident

Enter City

New Yorl

Contact


7469123841

Submit

Librarian Inserted

```
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



Librarians

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 York	7469123841


- Delete Librarian option



Delete Librarian

Enter the name to be deleted

- If the name entered is not present in the database

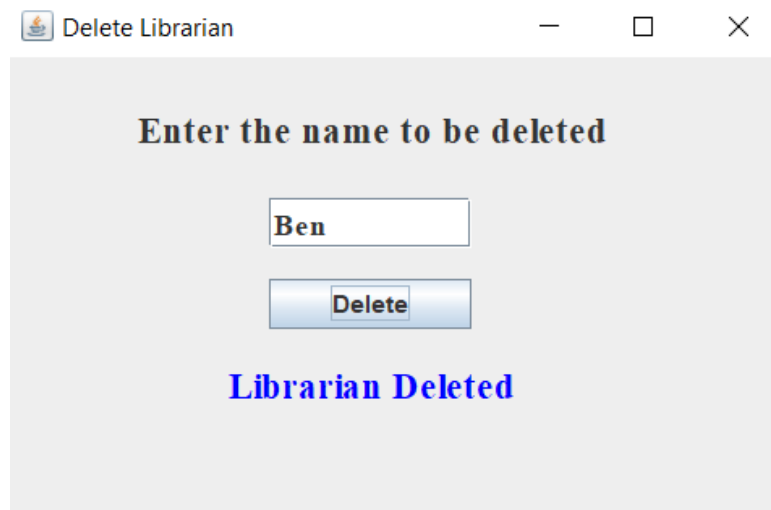


Delete Librarian

Enter the name to be deleted

Librarian doesn't exist in the record

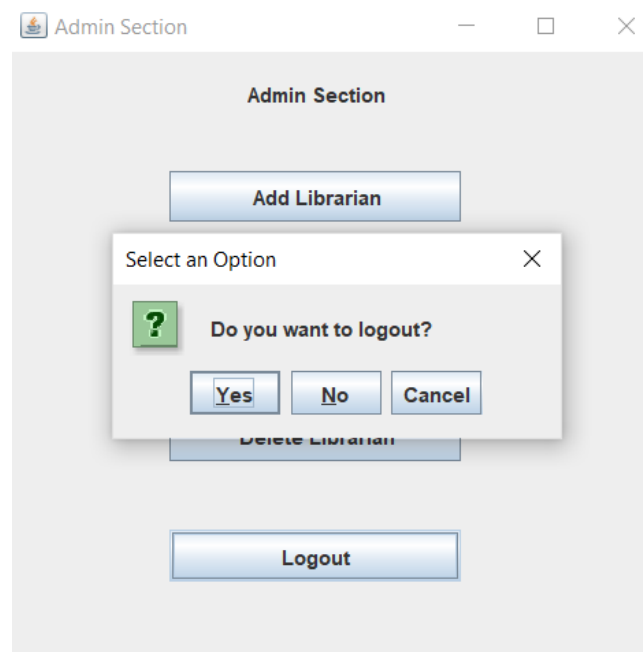
- If proper data is given



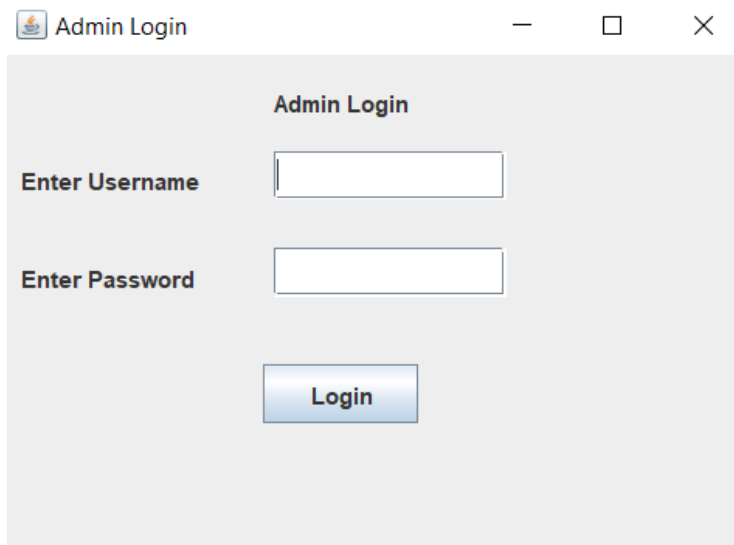
→ Librarian is also deleted from the data base

```
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

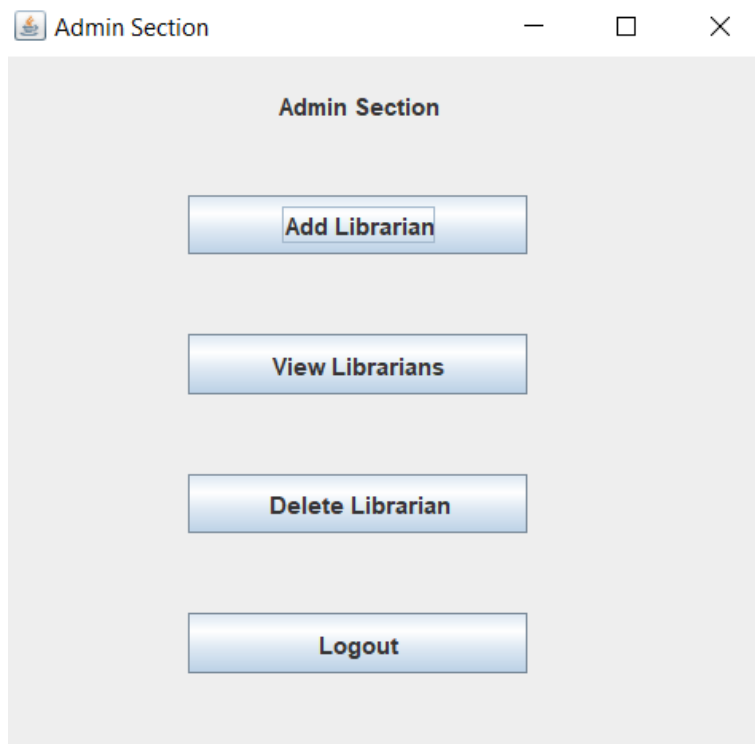


- Clicking on Yes



A screenshot of a web application window titled "Admin Login". The window has a standard title bar with a minimize button, a maximize button, and a close button. The main content area is light gray and contains the following elements: a title "Admin Login" at the top center, a label "Enter Username" followed by a text input field, a label "Enter Password" followed by a text input field, and a blue "Login" button at the bottom center.

- Clicking on No

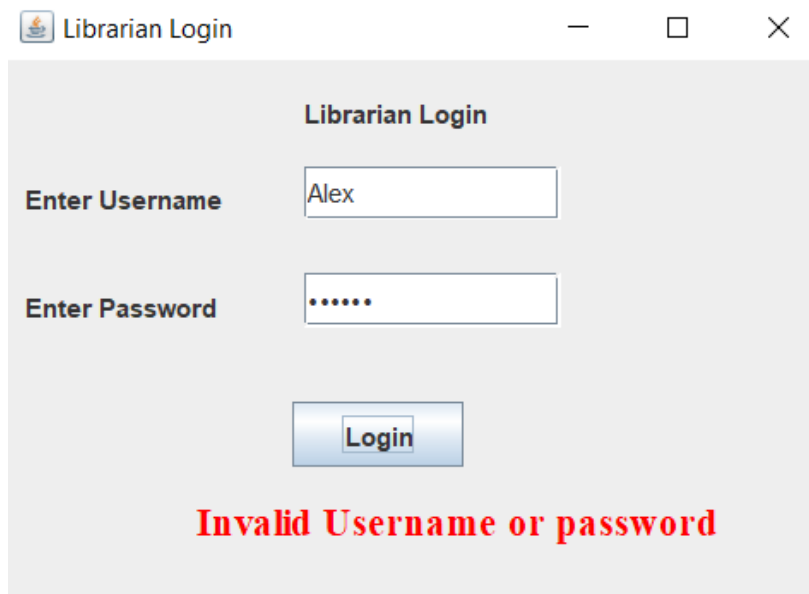


A screenshot of a web application window titled "Admin Section". The window has a standard title bar with a minimize button, a maximize button, and a close button. The main content area is light gray and contains the following elements: a title "Admin Section" at the top center, and four blue buttons arranged vertically in the center: "Add Librarian", "View Librarians", "Delete Librarian", and "Logout".

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

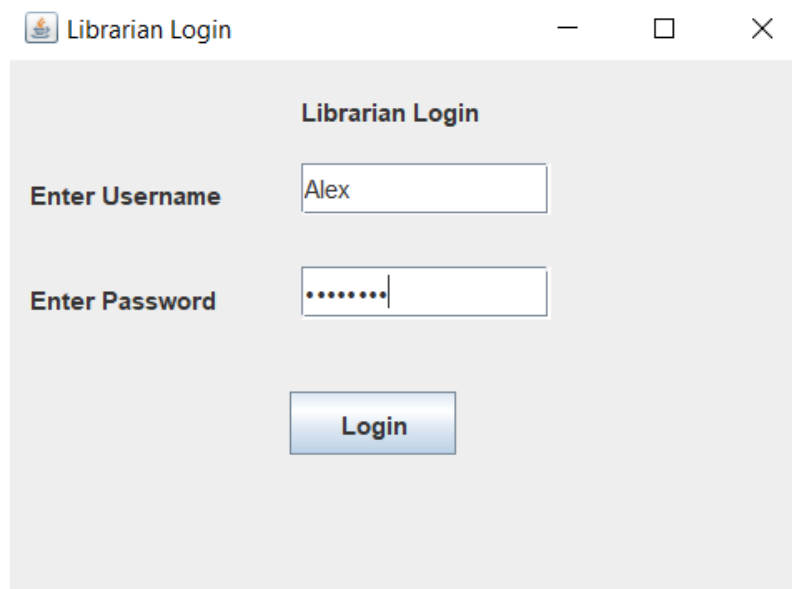
Note: Librarian section is only available to those people which are added by the admin.

- If wrong details are entered



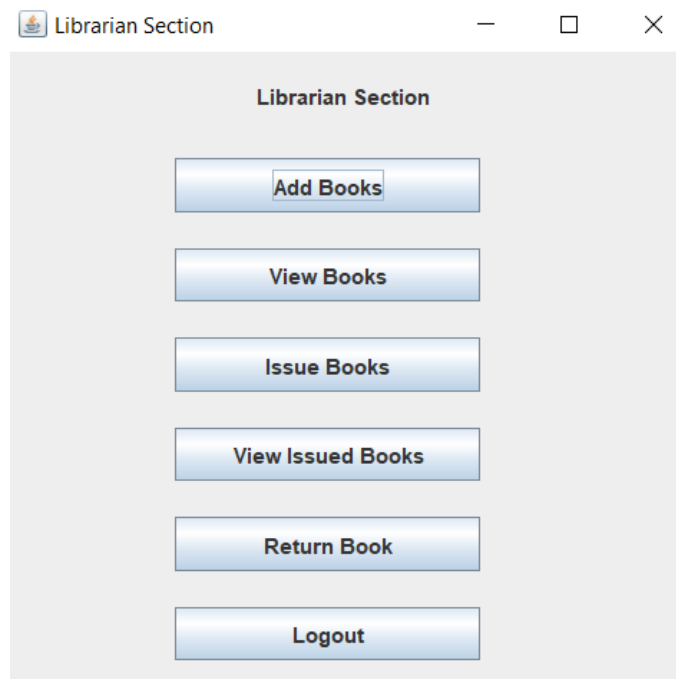
The screenshot shows a window titled "Librarian Login" with a standard Windows title bar (minimize, maximize, close buttons). Inside the window, the title "Librarian Login" is centered at the top. Below it, there are two input fields: "Enter Username" with the text "Alex" and "Enter Password" with masked characters ".....". A blue "Login" button is positioned below the password field. At the bottom of the window, a red error message "Invalid Username or password" is displayed in a bold, sans-serif font.

- Entering correct details



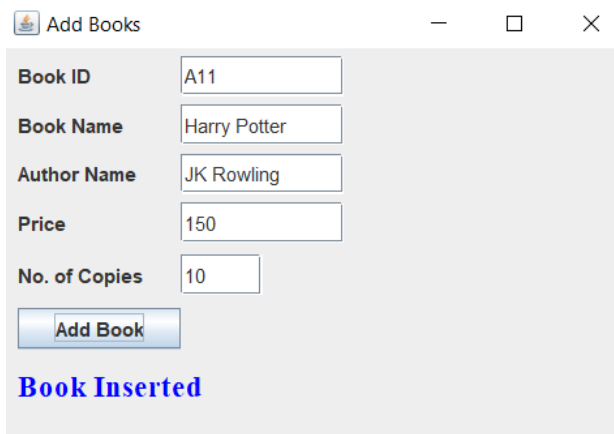
The screenshot shows the same "Librarian Login" window. The "Enter Username" field contains "Alex" and the "Enter Password" field contains masked characters ".....". The blue "Login" button is visible below the password field. Unlike the previous screenshot, there is no error message displayed.

- Librarian Section

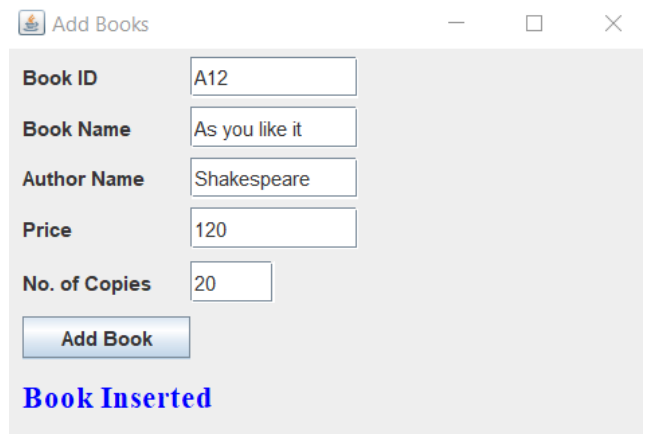


The screenshot shows a window titled "Librarian Section" with a standard Windows-style title bar (minimize, maximize, close buttons). Inside the window, the title "Librarian Section" is centered at the top. Below the title, there is a vertical stack of six blue buttons with white text: "Add Books", "View Books", "Issue Books", "View Issued Books", "Return Book", and "Logout".

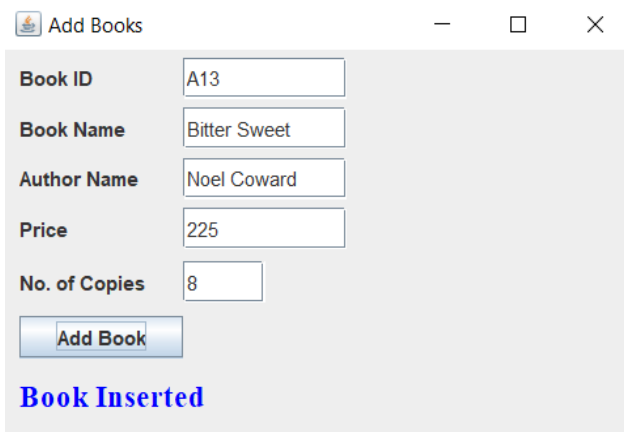
- Adding some books into the record



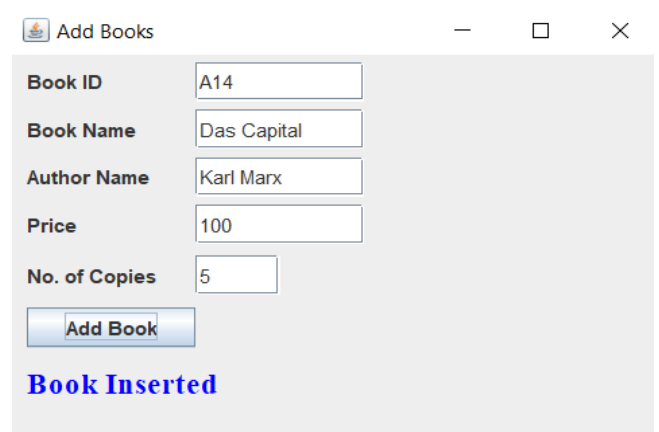
The screenshot shows a window titled "Add Books" with a standard Windows-style title bar. The window contains a form with the following fields: "Book ID" (A11), "Book Name" (Harry Potter), "Author Name" (JK Rowling), "Price" (150), and "No. of Copies" (10). Below the form is a blue "Add Book" button. At the bottom of the window, the text "Book Inserted" is displayed in blue.



The screenshot shows a window titled "Add Books" with a standard Windows-style title bar. The window contains a form with the following fields: "Book ID" (A12), "Book Name" (As you like it), "Author Name" (Shakespeare), "Price" (120), and "No. of Copies" (20). Below the form is a blue "Add Book" button. At the bottom of the window, the text "Book Inserted" is displayed in blue.



The screenshot shows a window titled "Add Books" with a standard Windows-style title bar. The window contains a form with the following fields: "Book ID" (A13), "Book Name" (Bitter Sweet), "Author Name" (Noel Coward), "Price" (225), and "No. of Copies" (8). Below the form is a blue "Add Book" button. At the bottom of the window, the text "Book Inserted" is displayed in blue.



The screenshot shows a window titled "Add Books" with a standard Windows-style title bar. The window contains a form with the following fields: "Book ID" (A14), "Book Name" (Das Capital), "Author Name" (Karl Marx), "Price" (100), and "No. of Copies" (5). Below the form is a blue "Add Book" button. At the bottom of the window, the text "Book Inserted" is displayed in blue.

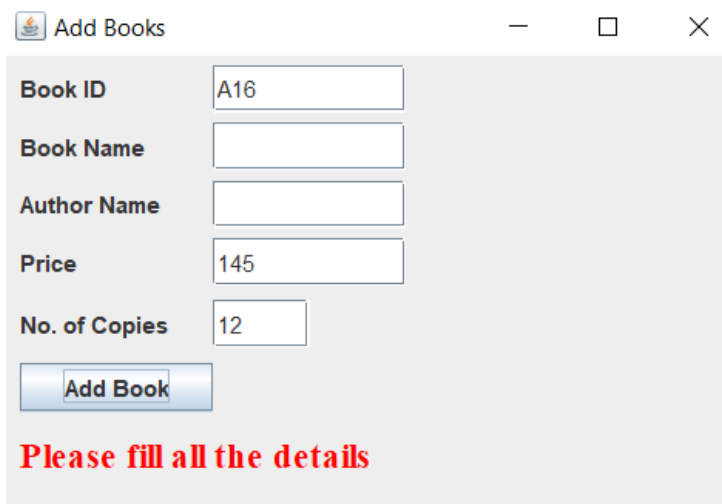
→ Books are also added to the database

```
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

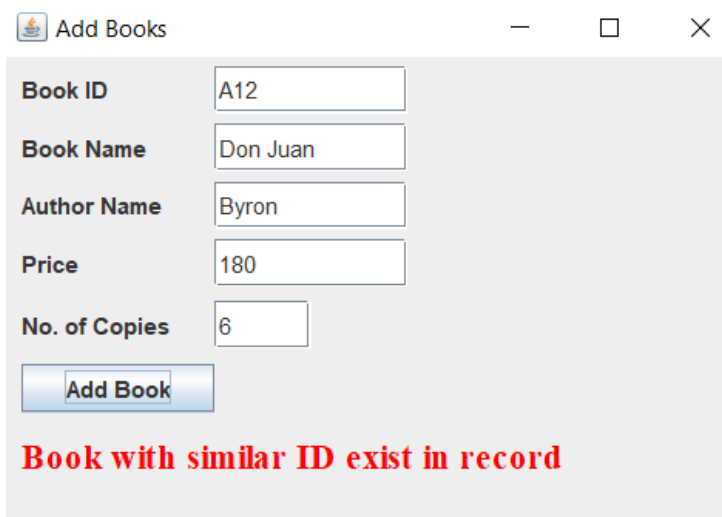
```
4 rows in set (0.00 sec)
```

- If fields are left empty



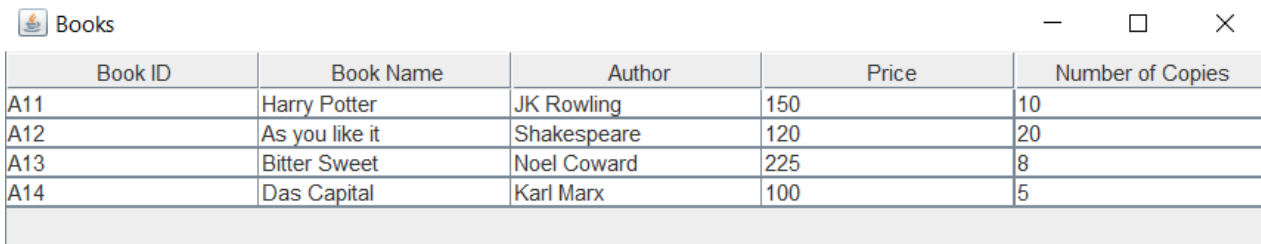
The screenshot shows a window titled "Add Books" with a close button (X) and a maximize button (square). The form contains five input fields: "Book ID" (containing "A16"), "Book Name" (empty), "Author Name" (empty), "Price" (containing "145"), and "No. of Copies" (containing "12"). Below the fields is a blue "Add Book" button. At the bottom, a red error message reads: "Please fill all the details".

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



The screenshot shows the same "Add Books" window. The "Book ID" field now contains "A12", which is a duplicate of an existing record. The "Book Name" field contains "Don Juan", "Author Name" contains "Byron", "Price" contains "180", and "No. of Copies" contains "6". The "Add Book" button is still present. At the bottom, a red error message reads: "Book with similar ID exist in record".

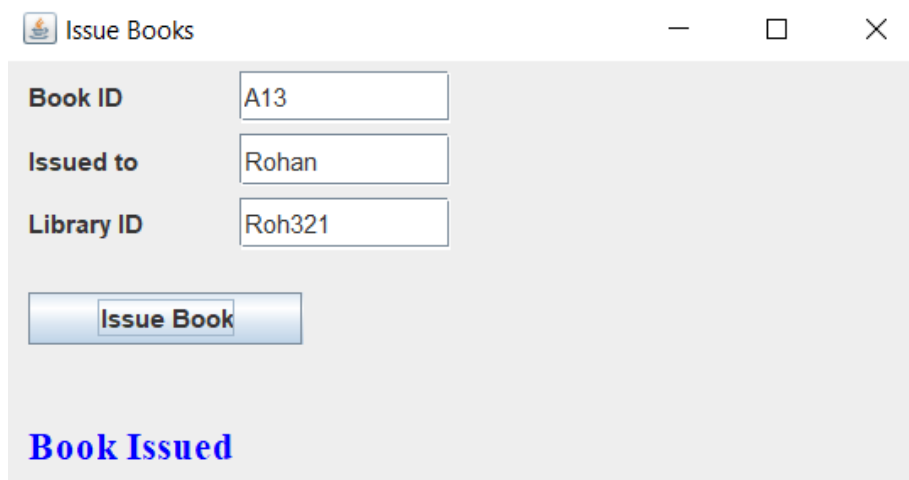
- Clicking on “View Books” button



The screenshot shows a window titled 'Books' with a table containing the following data:

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



The screenshot shows a window titled 'Issue Books' with the following form elements:

- Book ID:** A13
- Issued to:** Rohan
- Library ID:** Roh321
- Issue Book** button
- Book Issued** (confirmation message)

➔ 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

Issued Books				
Issue Date	Book ID	Book Name	Issued to	Library ID
2022-01-12	A13	Bitter Sweet	Rohan	Roh321

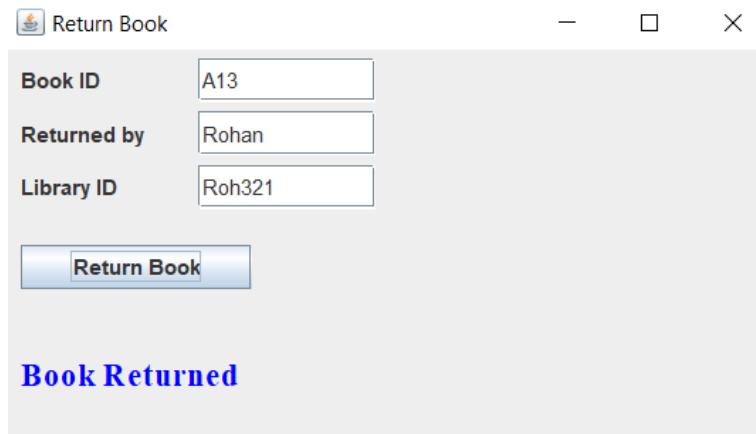
- Returning book

Return Book		— □ ×
Book ID	<input type="text"/>	
Returned by	<input type="text"/>	
Library ID	<input type="text"/>	
<input type="button" value="Return Book"/>		

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

Return Book		— □ ×
Book ID	<input type="text" value="A14"/>	No such data in the record
Returned by	<input type="text" value="Rohan"/>	
Library ID	<input type="text" value="Roh321"/>	
<input type="button" value="Return Book"/>		

- If correct data is entered



A screenshot of a web application window titled "Return Book". It contains three input fields: "Book ID" with the value "A13", "Returned by" with the value "Rohan", and "Library ID" with the value "Roh321". Below these fields is a button labeled "Return Book". At the bottom of the form, the text "Book Returned" is displayed in blue.

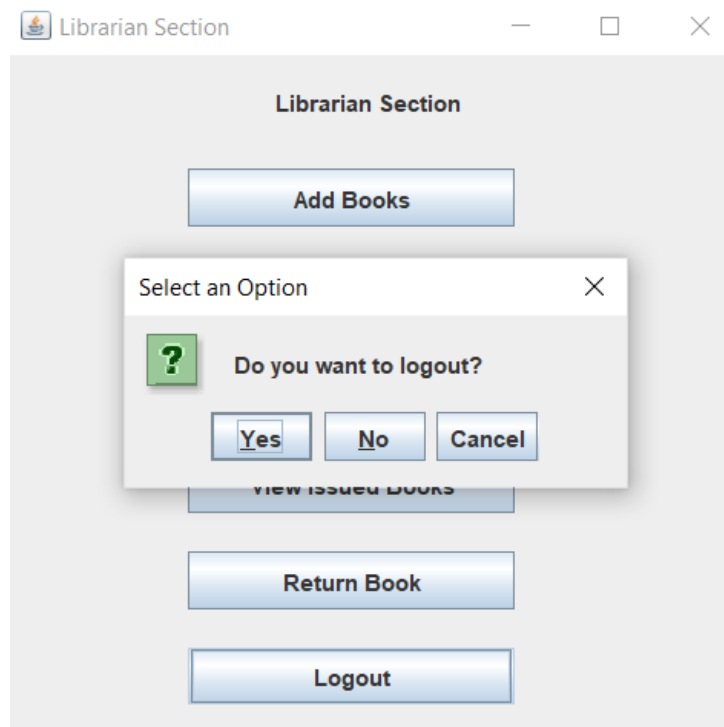
→ Return data is also added to the database

```
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

