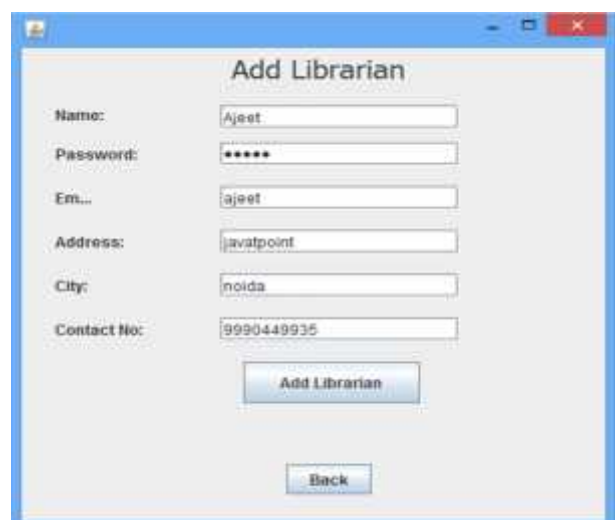
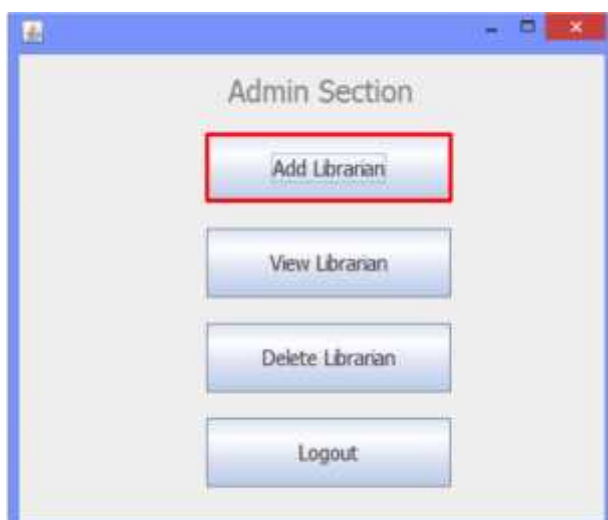
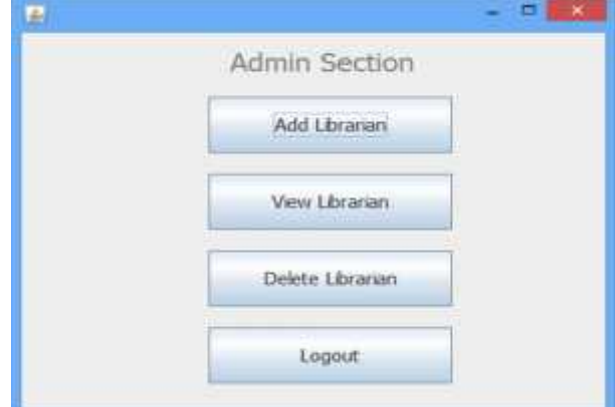
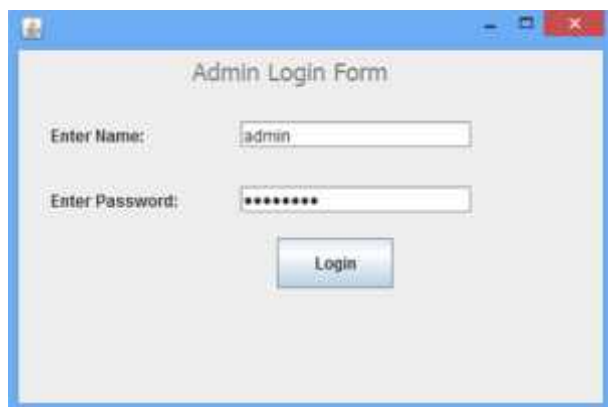
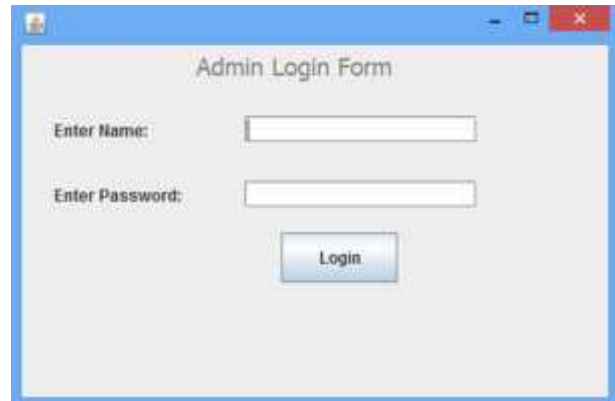
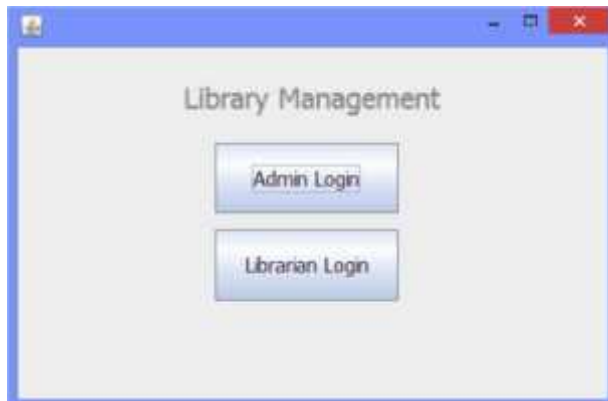


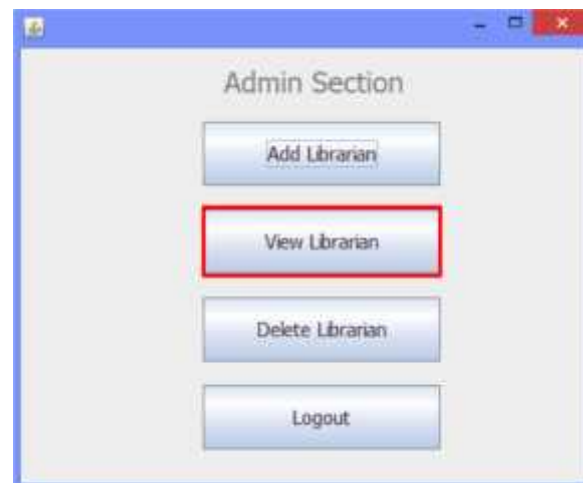
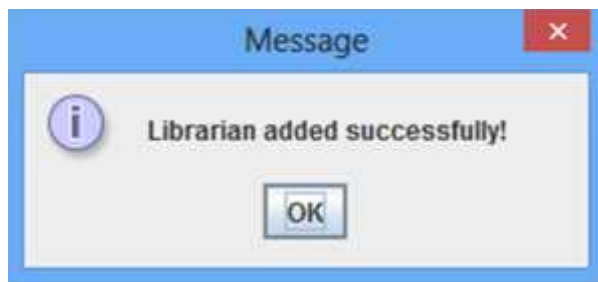


Assignment II University Library System

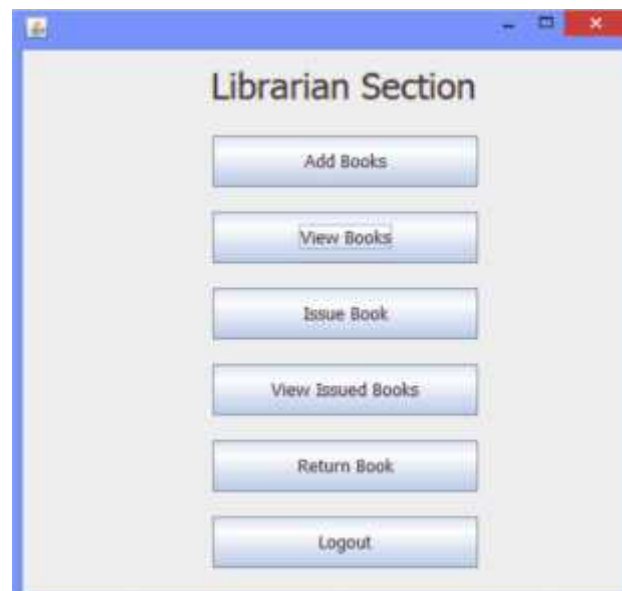
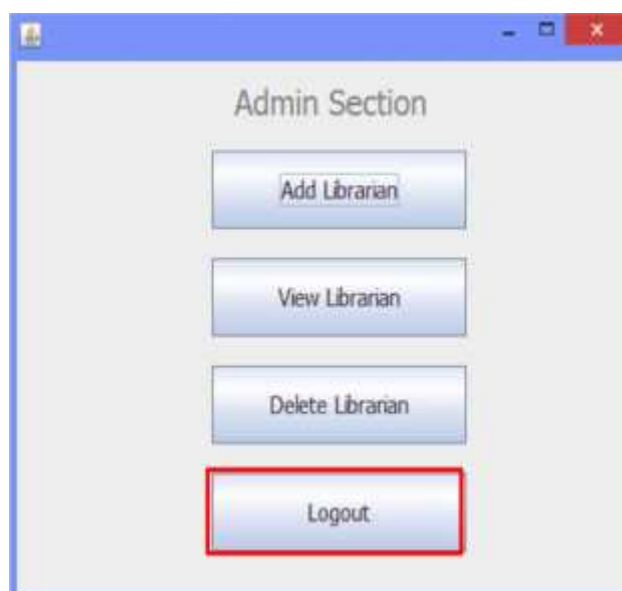
1. Admin User Interface

It is required to write a Java program with Swing interface to perform all the functions of the library system of an educational institute (e.g. university). The library has an admin and librarian. The admin can add, view, and delete librarians through the following user interfaces.





id	name	password	email	address	city	contact
1	Prabhakar	ppp	prabhakar@gm	javatpoint	noida	9998328238
4	sumedh	sumesh	sumesh@gmai	Kuch Bhi	noida	93823932823
6	abhi	abhi	abhi@gmail.com	javatpoint	noida	92393282323
7	Ajeet	ajeet	ajeet	javatpoint	noida	9990449935

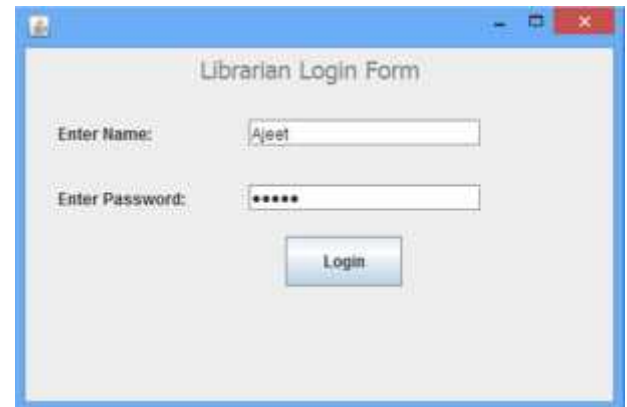


2. Librarian User Interface

On the other hand, the librarian can (1) add and view books. (2) issue books. (3) View issued books. (4) Return Books. He can use the following interfaces.



A screenshot of a window titled "Library Management". It contains two buttons: "Admin Login" and "Librarian Login".



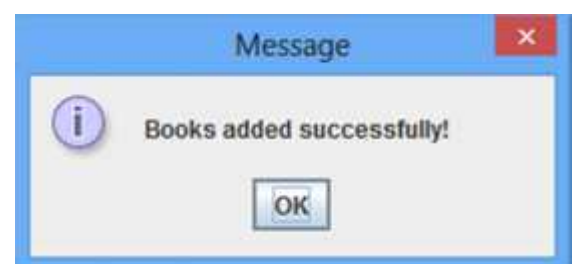
A screenshot of a window titled "Librarian Login Form". It contains two input fields: "Enter Name:" with the text "Ajeet" and "Enter Password:" with masked characters "*****". Below the fields is a "Login" button.



A screenshot of a window titled "Librarian Section". It contains a vertical stack of buttons: "Add Books" (highlighted with a red border), "View Books", "Issue Book", "View Issued Books", "Return Book", and "Logout".



A screenshot of a window titled "Add Books". It contains several input fields: "Call No:" with "K@8", "Name:" with "Networking", "Auth..." with "Foroutan", "Publisher:" with "Tata Mc Graw Hill", and "Quantity:" with "5". Below the fields are "Add Books" and "Back" buttons.



A screenshot of a "Message" dialog box. It contains an information icon (i) and the text "Books added successfully!". Below the text is an "OK" button.

Librarian Section

id	bookcalno	studentid	studentname	studentcontact	issueddate
4	A@4	23	kk	932992932	2016-07-20 00:13
6	A@4	335	Sumedh	95676565756	2016-07-20 00:14
7	A@4	87	abhishek	9329882382	2016-07-20 00:16
8	K@8	100	Vimal	9990449936	2016-07-20 01:38


Librarian Section

Return Book


Book Callno:
 Student id:

Note: Check the book properly!

Message

 Sorry, unable to return book!

Message

 Book returned successfully!

Librarian Section

Library Management

3. Requirements

1. It is required to implement a java program for the online library system with the classes for Admin, Librarians, Students, and Books.
2. The front end for your program is required to be implemented using Swing java API.
3. The back end for your program is your choice. A simple files to store the information is enough. Simple is safe.
4. Assignment due date is **Next Saturday.**
5. Issue book (borrow book)
6. The student must borrow one or 3 books maximum (check it when the librarian borrows a book with the student) and thee librarian decrease the number of books after issue book operation automatic.
7. In view issued books the first column id (automatic id)
8. Assignment is group of two.
9. Please take into consideration that for any function taking an input from the user, you should test the validity of the data presented to it before committing the changes