

COSC 1430 FINAL PROJECT – OPTION 3

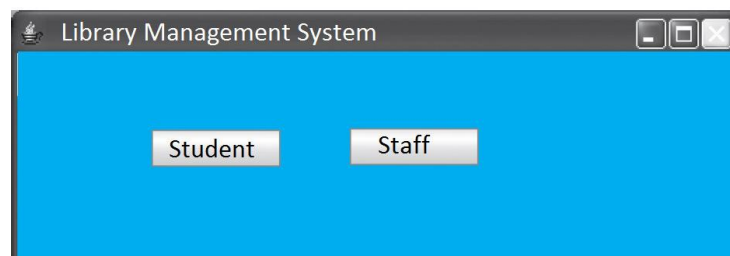
Library Management

In this project, you are going to develop a system to keep track of the books in a library. Your program will read the book records from an external file. The file will begin with the number of records in the file. For each book record, the following information will be stored in the file:

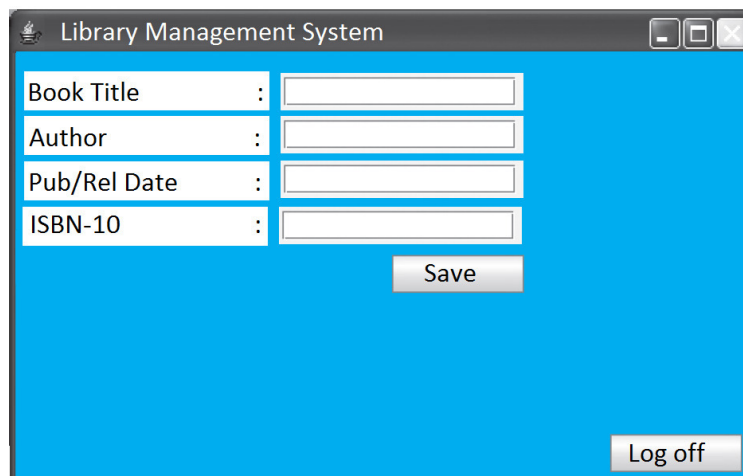
- Book Title
- Author
- Release/Publication Date
- ISBN-10
- Check-out status (yes/no)

Currently, there are 2 records in the file. Please generate at least 10 records.

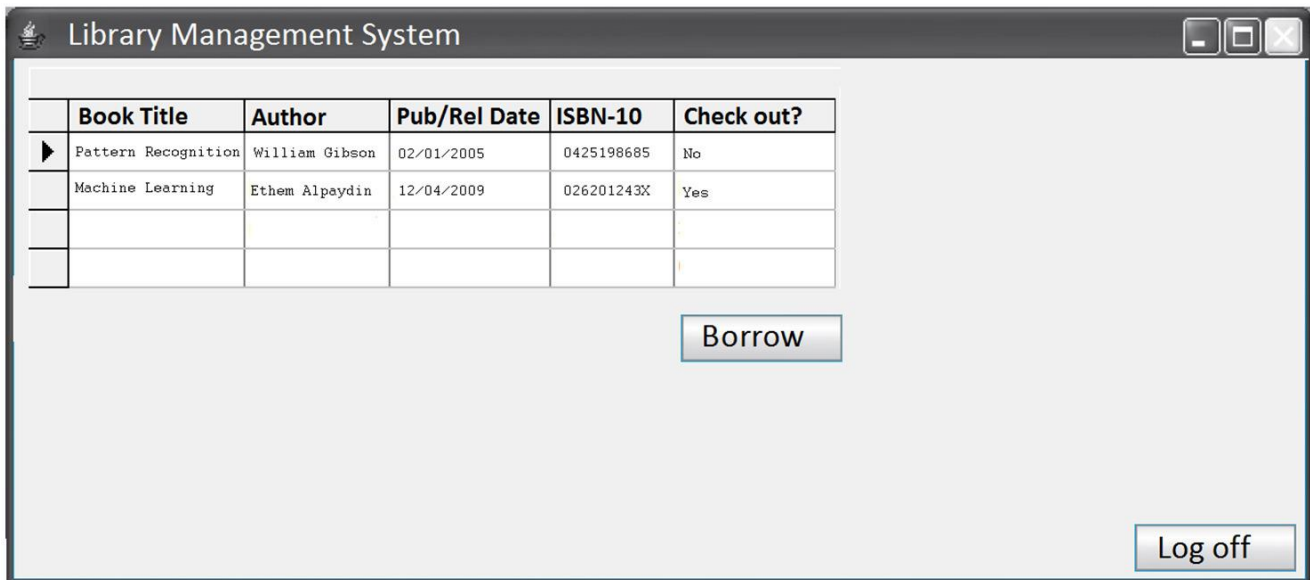
The program should provide 2 different interfaces for students and staff:



Staff login requires a username and password (staff usernames and passwords are provided in an external file). Staff can add new books to the system.

A screenshot of the "Library Management System" window showing the staff interface. It features four text input fields for "Book Title", "Author", "Pub/Rel Date", and "ISBN-10", each preceded by a colon. Below these fields is a "Save" button. In the bottom right corner, there is a "Log off" button.

Students can see the list of the books:



The image shows a window titled "Library Management System" with a standard Windows-style title bar (minimize, maximize, close buttons). Inside the window, there is a table with the following columns: Book Title, Author, Pub/Rel Date, ISBN-10, and Check out?. The table contains two rows of data. Below the table, there is a "Borrow" button and a "Log off" button in the bottom right corner.

	Book Title	Author	Pub/Rel Date	ISBN-10	Check out?
▶	Pattern Recognition	William Gibson	02/01/2005	0425198685	No
	Machine Learning	Ethem Alpaydin	12/04/2009	026201243X	Yes

Borrow

Log off

Students can borrow a book if the book is available. Please note that you should update the book list and text file accordingly.

Important:

Please note that all term projects are open-ended questions. In other words, you are free to add any functionality and improve the user interfaces.