

/** Name: Renkai Ji

* CS6360, Assignment 3

* Section 002

* Due Date: 11:59 pm, 12/08/13

*/

I. Purpose

Create a database application in java that interfaces with a Library database with the following requirements.

- 1) GUI
- 2) Determining Book Availability
- 3) Checking Out Books
- 4) Checking Out Books
- 5) Create new borrowers

II. File list

- 1) Main.java

//Set up the MySQL connection and main frame.

- 2) FirstTabPanel.java

//Determining Book Availability

//Support substring matching

- 3) SecondTabPanel.java

//Checking Out Books

//Implementation with extra feature. If the number of BOOK_LOANS for a given book at a branch already equals the No_of_copies and my application will prompt a message suggesting another branch for you to check out based on the number of available books in each branch of the system.

- 4) ThirdTabPanel.java

//Checking Out Books

5) FourthTabPanel.java

//Create New Borrowers

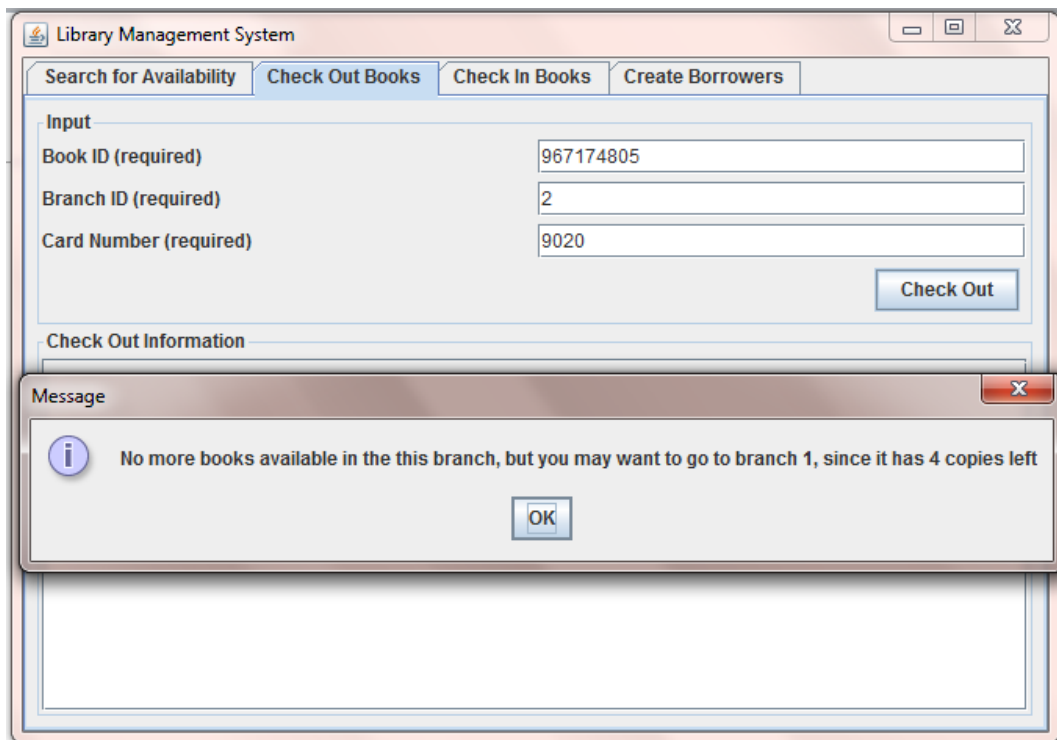
III. Compiling and Executing on command line

On Eclipse,

First Create a new package named library, import all the java source files. Make sure you have changed the user name and password to MySQL in Main.java to your own. Then click run.

IV. Snapshot of part results

a. Additional feature with powerful advising capacity:



b. If a BORROWER already has 3 BOOK_LOANS, then the checkout will fail and prompt useful message.

Library Management System

Search for Availability | **Check Out Books** | Check In Books | Create Borrowers

Input

Book ID (required) 967174805

Branch ID (required) 5

Card Number (required) 9021

Check Out

Check Out Information

Message

This borrower has already 3 book loans

OK

c. If a new borrower is attempted with the same fname, lname, and address, then my system will reject.

Library Management System

Search for Availability | Check Out Books | Check In Books | **Create Borrowers**

Input

Card Number (required) 9043

First Name (required) Jared

Last Name (required) James

Street Address (required) 123 Peachtree

City (required) Atlanta

State (required) GA

Phone Number (optional)

Create New Borrower

Updated Information

Message

Borrowers are allowed to possess exactly one library card, creating failure

OK

phone