

Library Management System (User Manual)

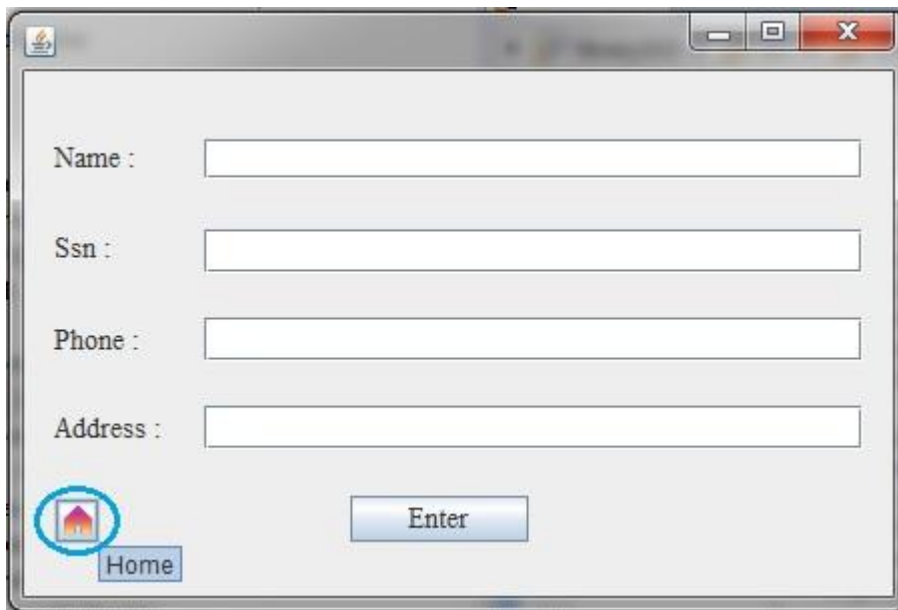
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1. Introduction

Library Management System provides basic functionalities like:

- a. Searching for a book
- b. Checking out a book
- c. Checking in a book
- d. Creating new borrower record
- e. Fines

From any screen if you want to go to main page you can do so by clicking home button



A screenshot of a Java Swing window titled "Library Management System". It contains four text input fields labeled "Name :", "Ssn :", "Phone :", and "Address :". Below these fields is a blue button labeled "Enter". In the bottom-left corner, there is a small icon of a house inside a blue circle, with the word "Home" written below it.

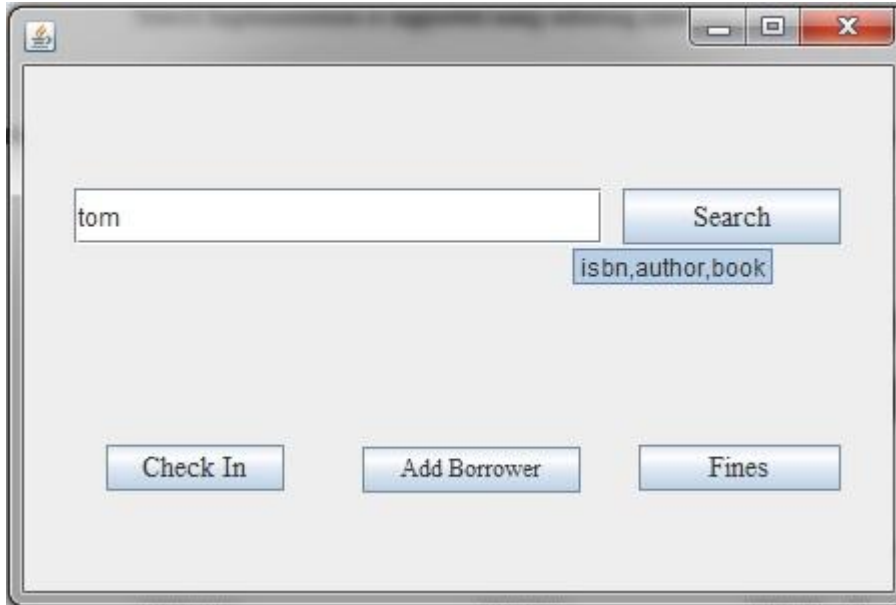
When project is executed it will popup a window and ask for library database name, user name of mysql and password of mysql after filling those details press enter



A screenshot of a Java Swing window titled "Library Management System". It contains three text input fields labeled "library:", "user:", and "Password:". The "library:" field contains the text "library_db2", the "user:" field contains "root", and the "Password:" field is filled with dots. Below these fields is a blue button labeled "login".

2. Book Search

Book search is implemented such that given any combination of ISBN, title, and Author(s) which are separated by comma (“,”) yields result and substring matching is also implemented.



Search interface showing a search input field with the text "tom", a "Search" button, and a dropdown menu with the text "isbn,author,book". Below the search area are three buttons: "Check In", "Add Borrower", and "Fines".

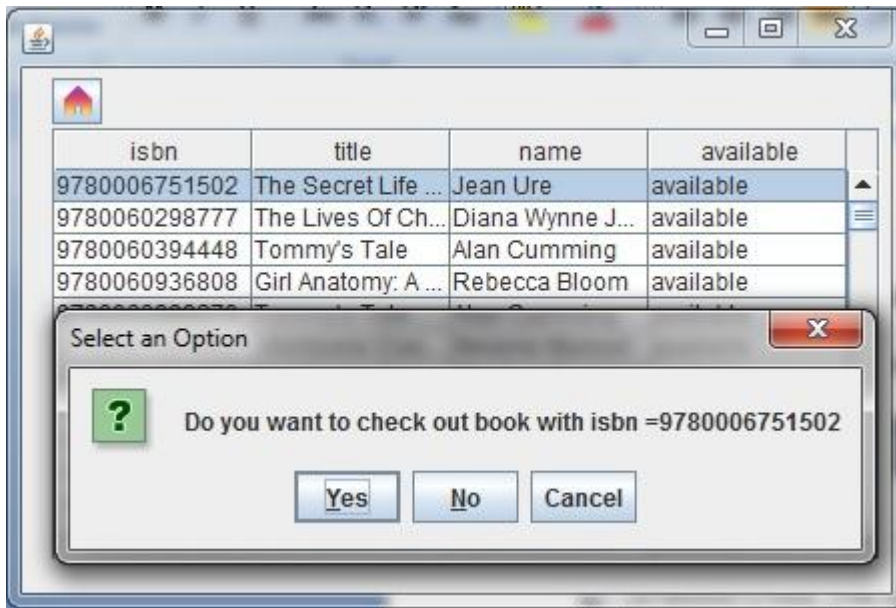
By clicking search button a list of results will be displayed in a table.



| isbn | title | name | available |
|---------------|---------------------|--------------------|-----------|
| 9780006751502 | The Secret Life ... | Jean Ure | available |
| 9780060298777 | The Lives Of Ch... | Diana Wynne J... | available |
| 9780060394448 | Tommy's Tale | Alan Cumming | available |
| 9780060936808 | Girl Anatomy: A ... | Rebecca Bloom | available |
| 9780060989279 | Tommy's Tale: ... | Alan Cumming | available |
| 9780061064982 | Wishbone Clas... | Melanie Munnell | available |
| 9780061064982 | Wishbone Clas... | Stephen Fuentes | available |
| 9780064401746 | Good Night, Mr. ... | Michelle Magori... | available |
| 9780070212572 | Fried Green To... | Fannie Flagg | available |
| 9780099143710 | Fried Green To... | Fannie Flagg | available |
| 9780131654235 | Computer Data... | James Martin | available |
| 9780140181906 | The Custom Of ... | Anita Brookner | available |

3. Book Check Out

To checkout a book just click any row. If book is available a popup comes for confirmation.



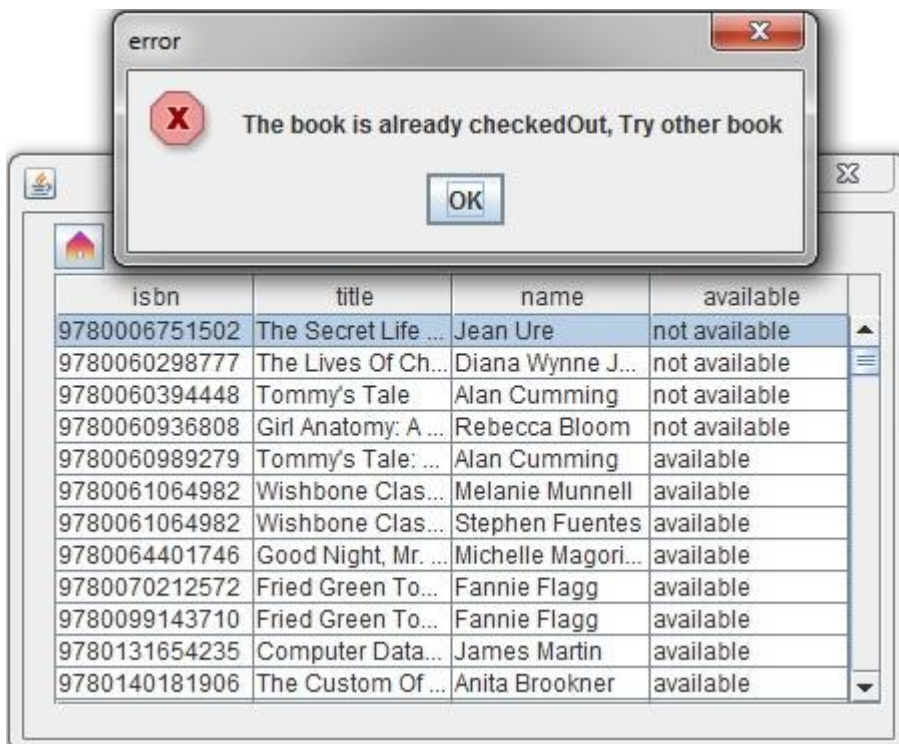
If you press yes it will ask card number of borrower to checkout and a confirmation message will be displayed that book is checked out.



But if borrower has already checkout 3 books an error message will be displayed.




Finally if book is not available we get an error.



4. Book Check in

A book can be checked in by pressing button Check In. It will ask for borrower name or SSN or ISBN give any of the above information to check in a book.

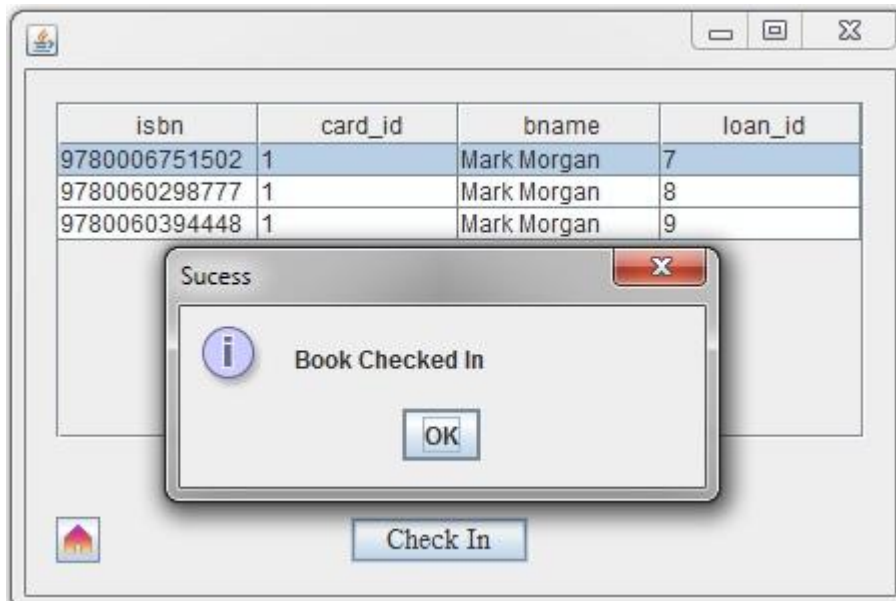


Borrower Name:

Card Number :

ISBN :

A List will be available and to click required book and click check in button and a message will be displayed to indicate book has been checked in



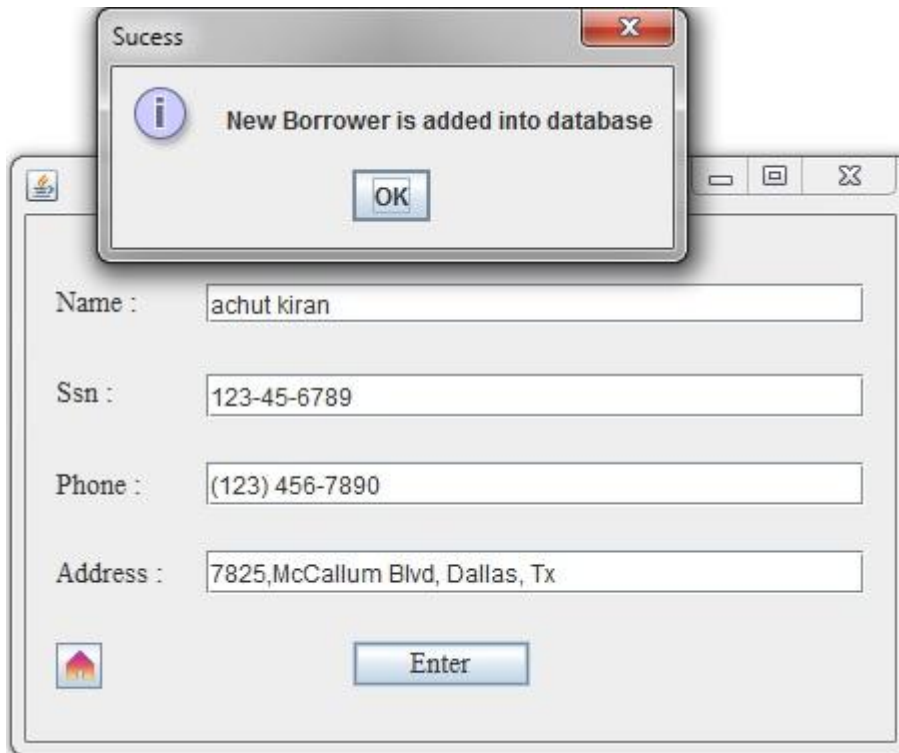
| isbn | card_id | bname | loan_id |
|---------------|---------|-------------|---------|
| 9780006751502 | 1 | Mark Morgan | 7 |
| 9780060298777 | 1 | Mark Morgan | 8 |
| 9780060394448 | 1 | Mark Morgan | 9 |

Success

Book Checked In

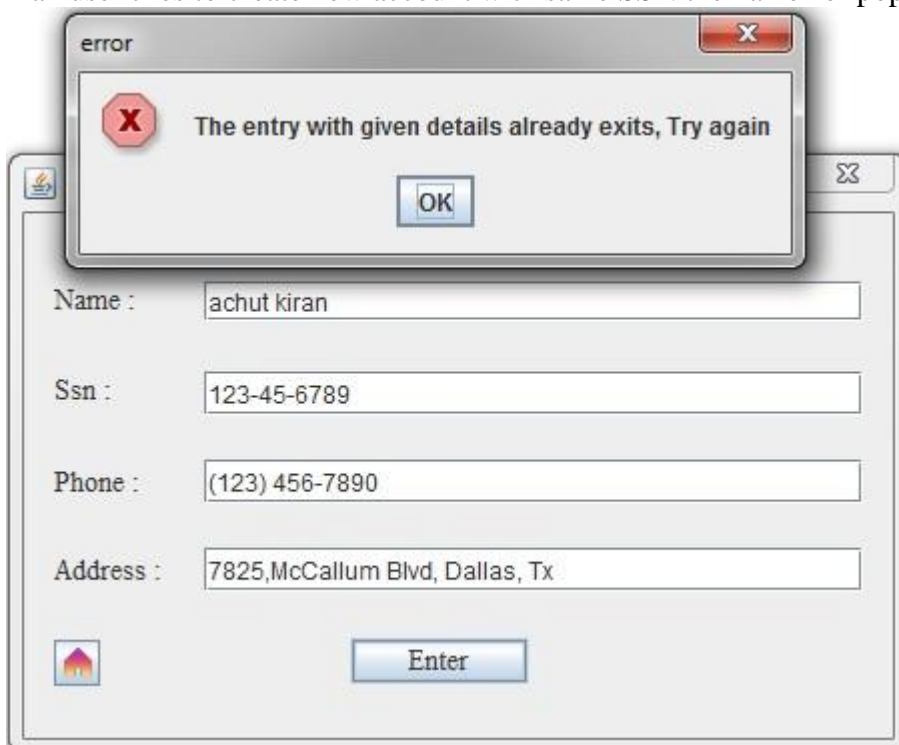
5. Borrower Account Creation

To create new borrower account click add borrower. A panel will be opened which will ask name, SSN of form 000-00-0000 , phone of form (000) 000-0000, address of which name, SSN, address are compulsory. If user is actually new a popup will show that borrower is added to system.



The image shows a 'Success' dialog box with the message 'New Borrower is added into database' and an 'OK' button. Below it is a form for creating a new borrower account. The form has four text input fields: 'Name' (containing 'achut kiran'), 'Ssn' (containing '123-45-6789'), 'Phone' (containing '(123) 456-7890'), and 'Address' (containing '7825,McCallum Blvd, Dallas, Tx'). There is a home icon and an 'Enter' button at the bottom of the form.

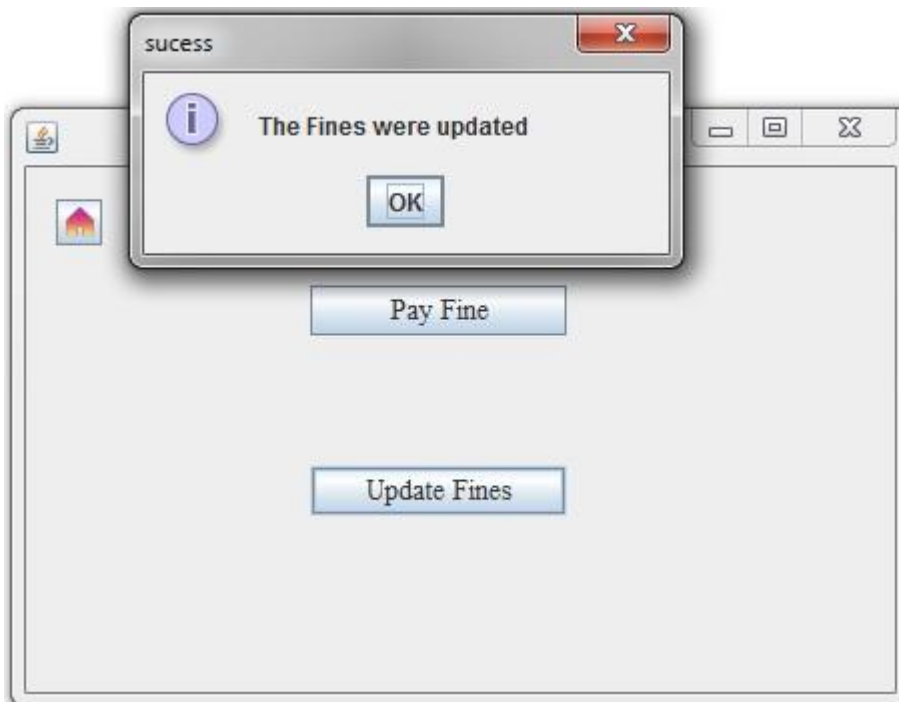
If an user tries to create new account with same SSN then an error popup will be generated.



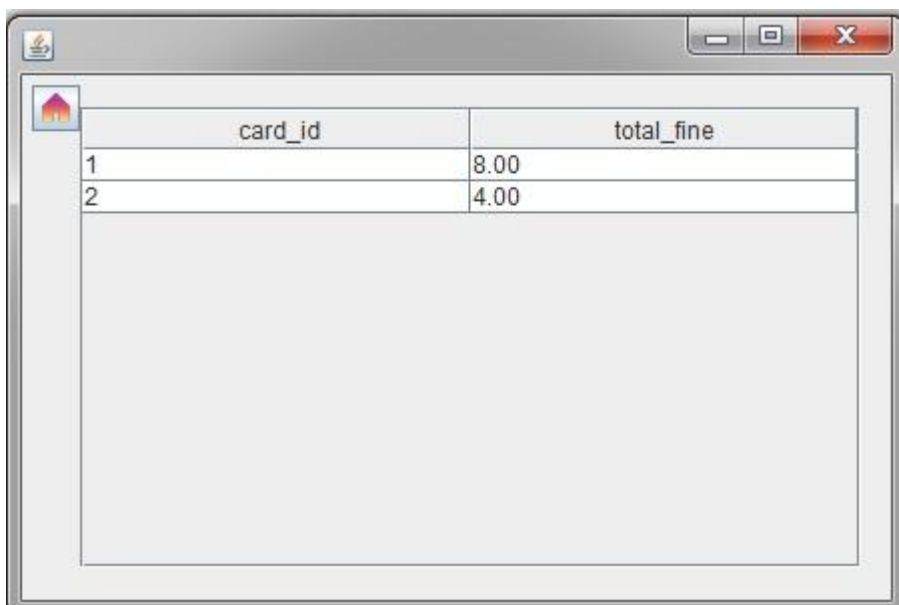
The image shows an 'error' dialog box with the message 'The entry with given details already exists, Try again' and an 'OK' button. Below it is the same borrower account creation form as in the previous image, with the same data entered in the fields.

6. Fines

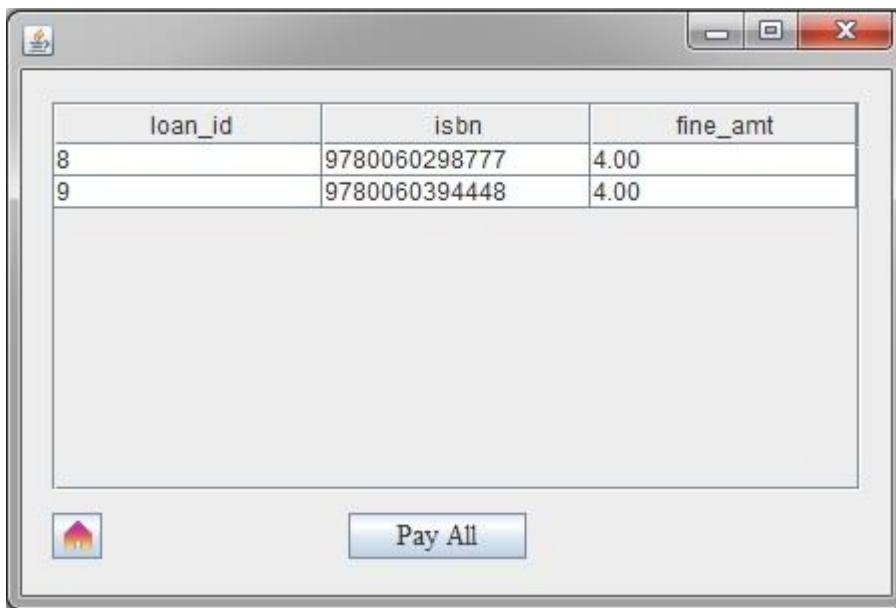
To update Fines click fines button and then update Fines button after fines are updated a pop will come to tell you fines are updated.



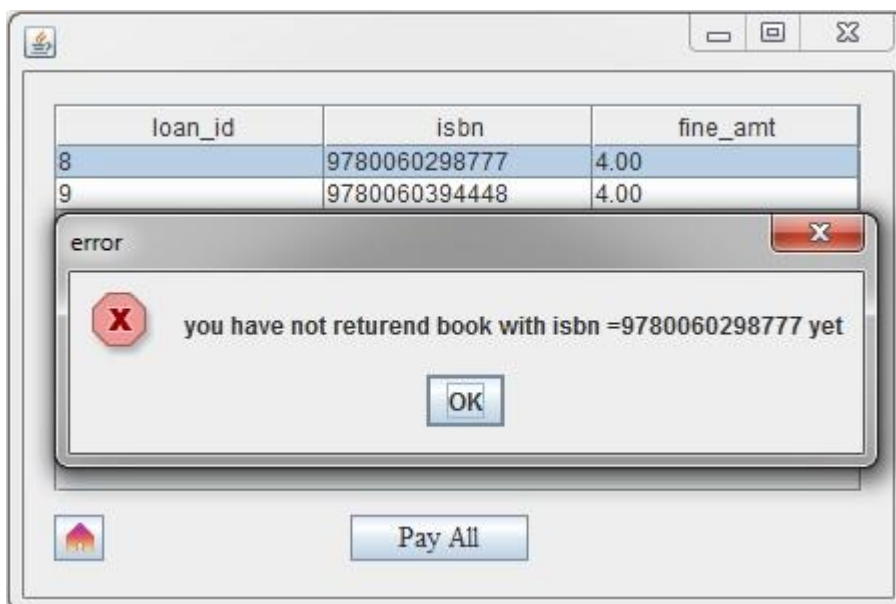
To pay the fines press pay fine button. Then a list of fines per borrower will be displayed and select a borrower to pay the fine.



If a borrower is selected a list will be displayed how much he owes per book.



Now there will be 2 options to pay the fine only for a book or to pay fines for all books. If borrower has not returned the book an error message will be generated.



Otherwise a success message will be generated.

