

# CS 6360 Database Design

**Instructor: Chris Irwin Davis**

## Individual Project Milestone 2



**Submitted By:**

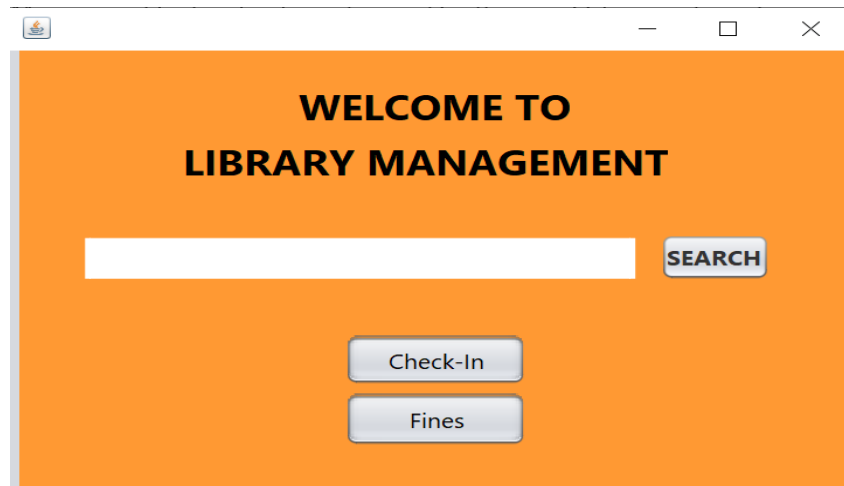
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# **Library Management System**

## **Quick Start Guide**

The Library Management System has been designed for the use of Librarians to perform various services. The use of this system has been explained in this document.

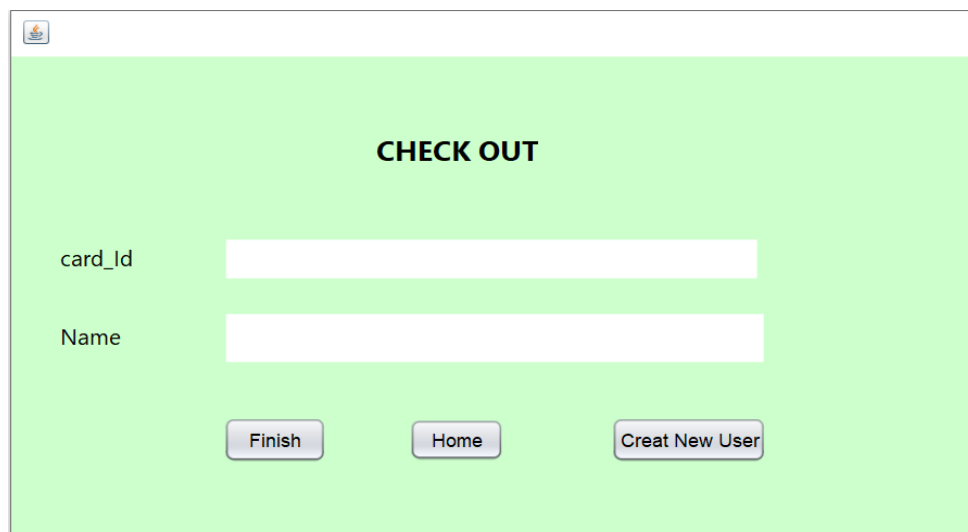
1. Open Library management project and run the code in NetBeans.
2. The following **home page** will be visible



3. To search for a book, type the Book name, Author, or ISBN of the book. The following page will appear to show the availability of the book you need. Click the Back button to go back to the home page and next to check out the book.

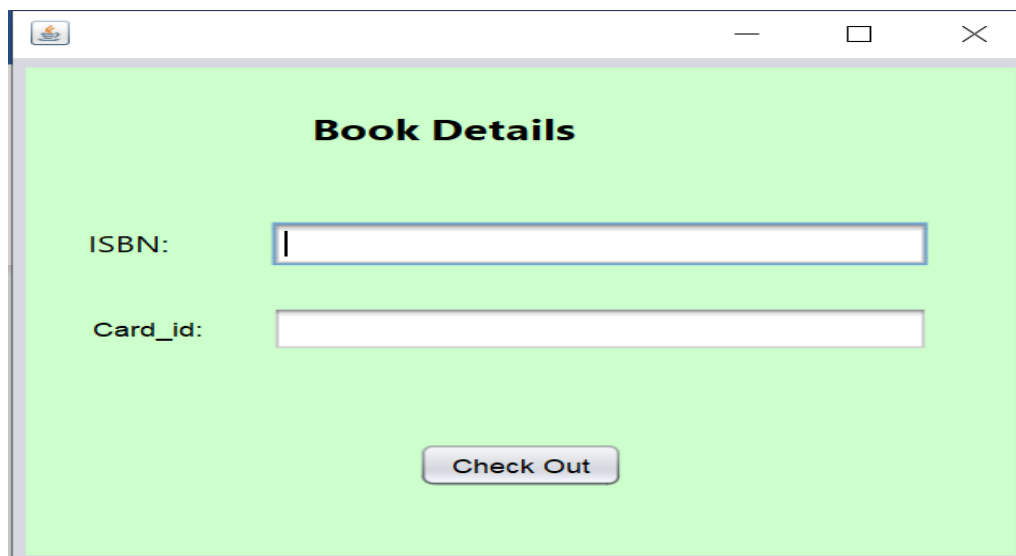
ISBN	BOOK	AUTHOR	AVAILABILITY
9780001047976	Brave New World	Aldous Huxley,T...	yes
9780001360464	Dressing (Collin...	Mandy Stanley,...	yes
9780001374867	Baby Plays (Coll...	Fiona Pragoff,Fi...	no
9780001714601	I Want To Be So...	Robert Lopshire	yes
9780002005012	Clara Callan: A ...	Richard Bruce W...	yes
9780002005395	Deafening	Frances Itani	yes
9780002179683	Christmas In Am...	David Cohen	yes
9780002215817	Lord Of The Far I...	Victoria Holt	no
9780002219471	The Way To Dus...	Alistair MacLean	yes
9780002229548	Cold New Dawn	Ian St.James	yes
9780002243773	Visible Worlds: A...	Marilyn Bowering	yes
9780002244091	Dust To Dust: St...	Timothy Findley	yes
9780002245661	Forms Of Devoti...	Diane Schoemp...	yes

4. Once the check-out page appears enter the card-id or borrower-id and name of the card holder.



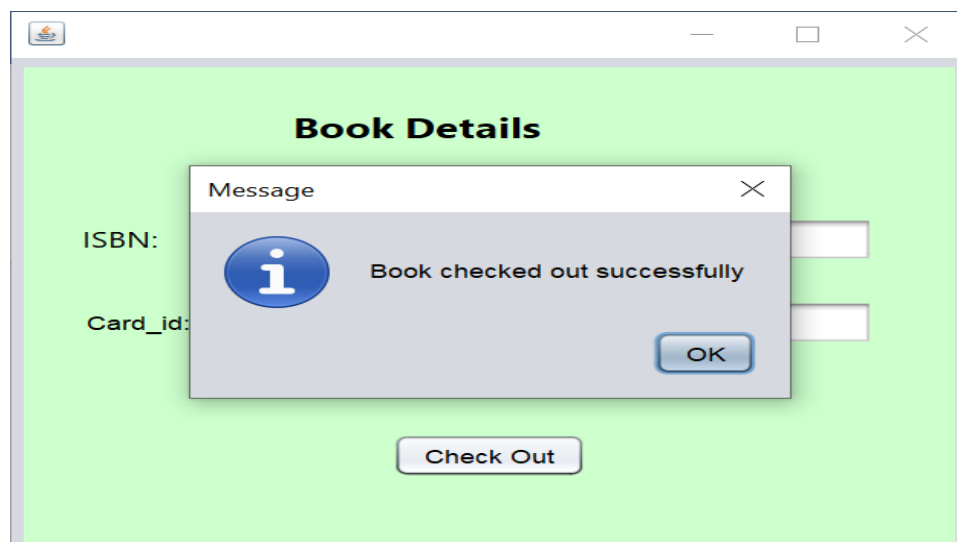
A screenshot of a web application window titled "CHECK OUT". The background is light green. At the top center, the text "CHECK OUT" is displayed in bold black font. Below this, there are two input fields: the first is labeled "card\_Id" and the second is labeled "Name". At the bottom of the form, there are three buttons: "Finish", "Home", and "Creat New User".

5. Click **Finish**, If the borrower exists, it will take you to next page to fill in the details of the book i.e., ISBN number and Card-id of the borrower.

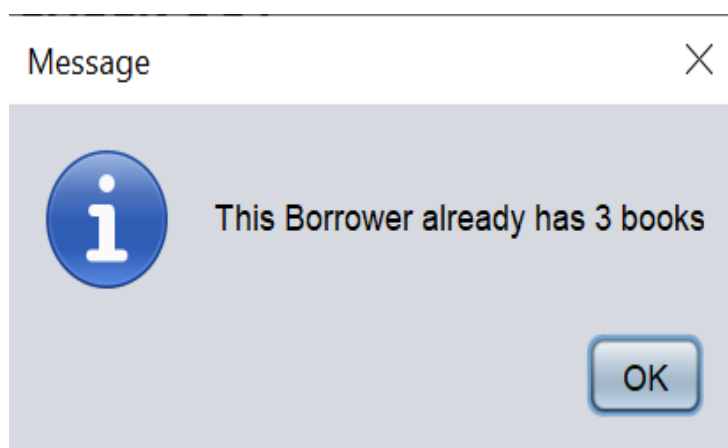


A screenshot of a web application window titled "Book Details". The background is light green. At the top center, the text "Book Details" is displayed in bold black font. Below this, there are two input fields: the first is labeled "ISBN:" and the second is labeled "Card\_id:". At the bottom center of the form, there is a button labeled "Check Out".

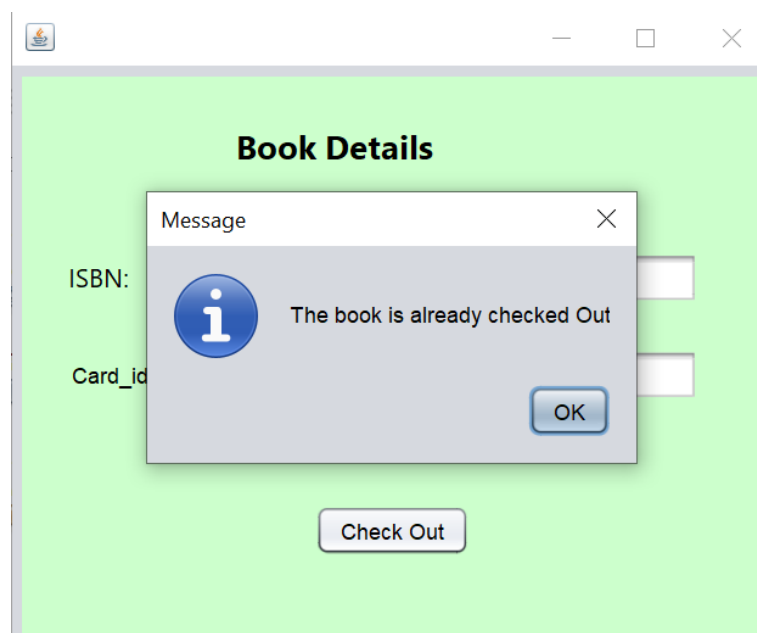
6. **Check Out** to issue the book. The following popup will appear as your book is successfully checked out.



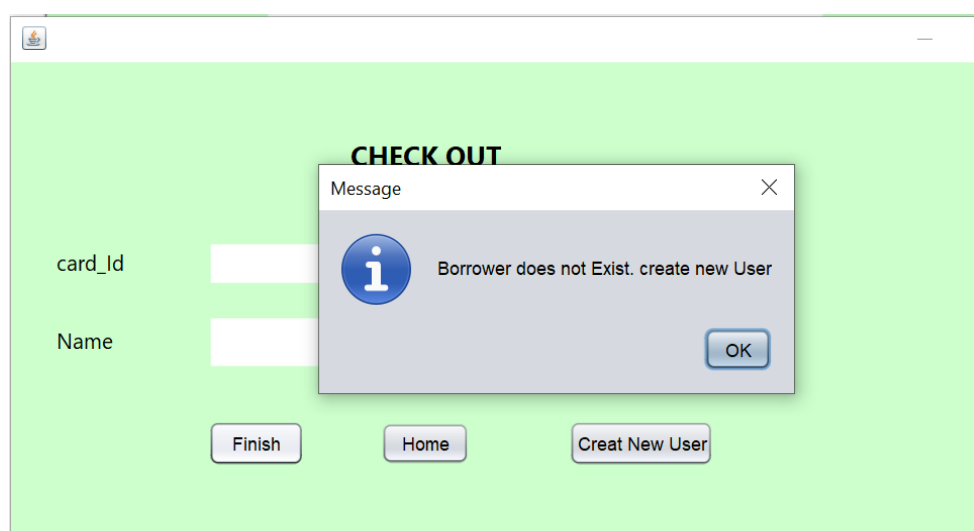
- If the borrower already has 3 books this message will show up.



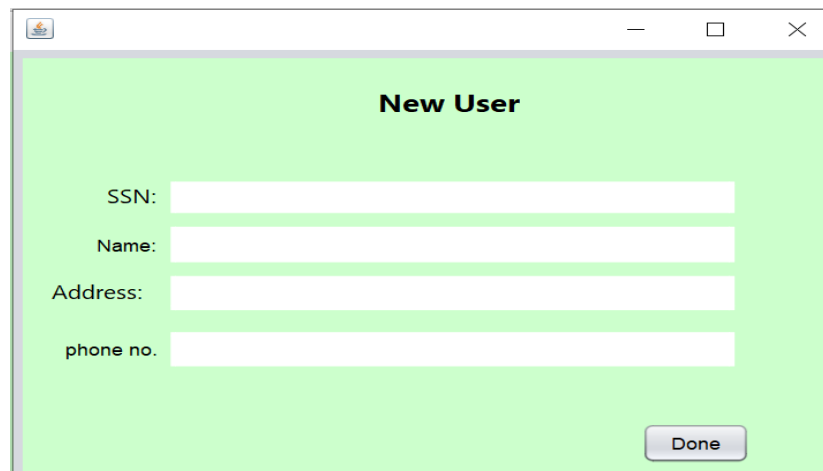
- If the book is already checked out. The following error message shows up.



7. If the borrower doesn't exist the following popup will appear.

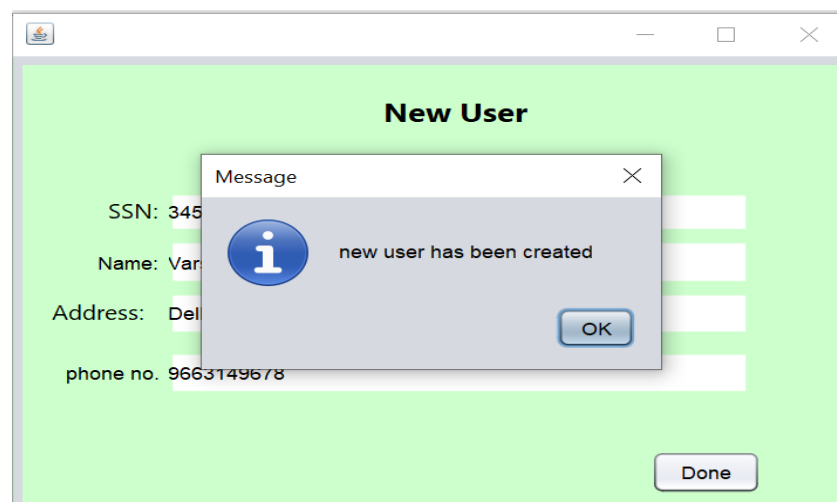


8. create new user. To add a new borrower, click **create new user** button. The following page will appear.



A screenshot of a web application window titled "New User". The window has a light green background. It contains four text input fields with labels: "SSN:", "Name:", "Address:", and "phone no.". Each field is a white rectangle with a thin border. At the bottom right of the form is a button labeled "Done".

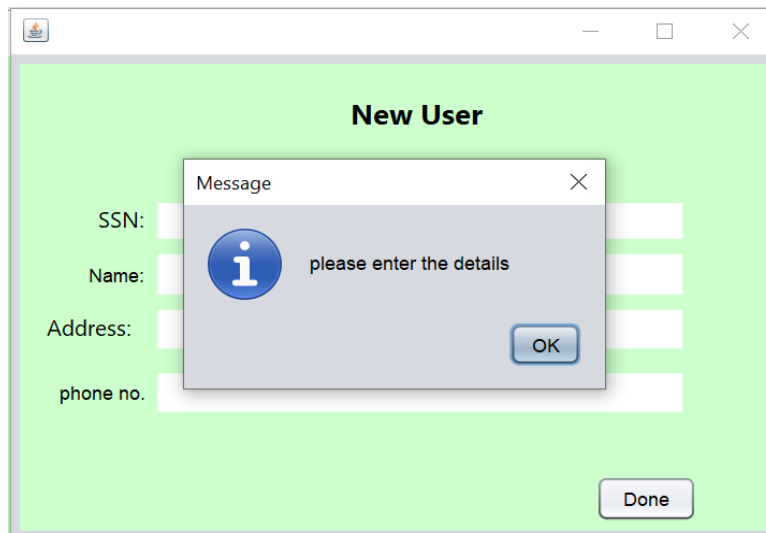
9. Enter all required details and click **Done**. The following pop up will appear.



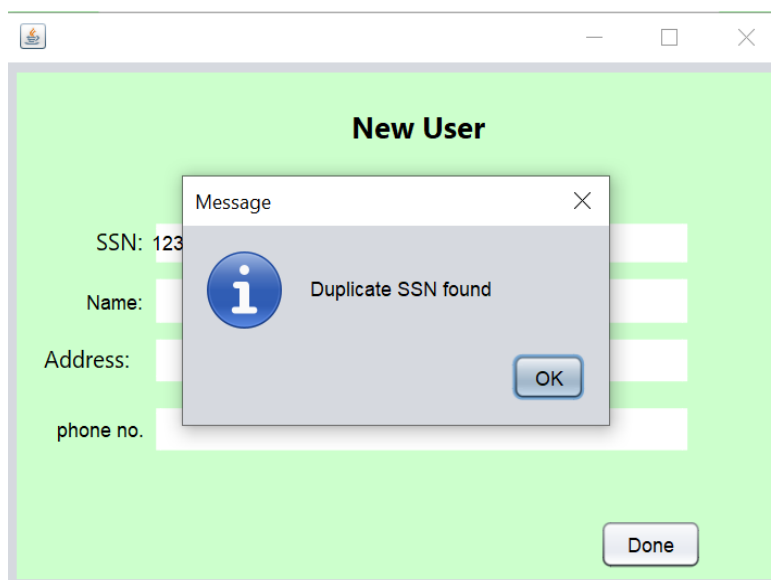
A screenshot of the same "New User" form, but now it contains text: "SSN: 345", "Name: Var", "Address: Del", and "phone no. 9663149678". A modal dialog box is overlaid on top of the form. The dialog box is titled "Message" and has a blue information icon on the left. The text inside the dialog says "new user has been created". There is an "OK" button at the bottom right of the dialog. The "Done" button is still visible at the bottom right of the form.

10. Finally repeat steps 5 and step 6 to successfully check-out the book.

11.If the details are not filled in create new user form the following error messaged will be displayed.



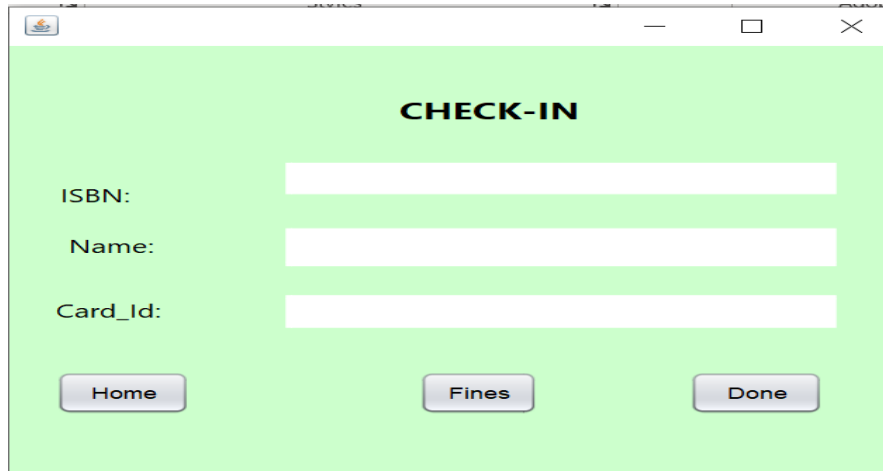
12. If the SSN given is already registered. The following popups will appear.





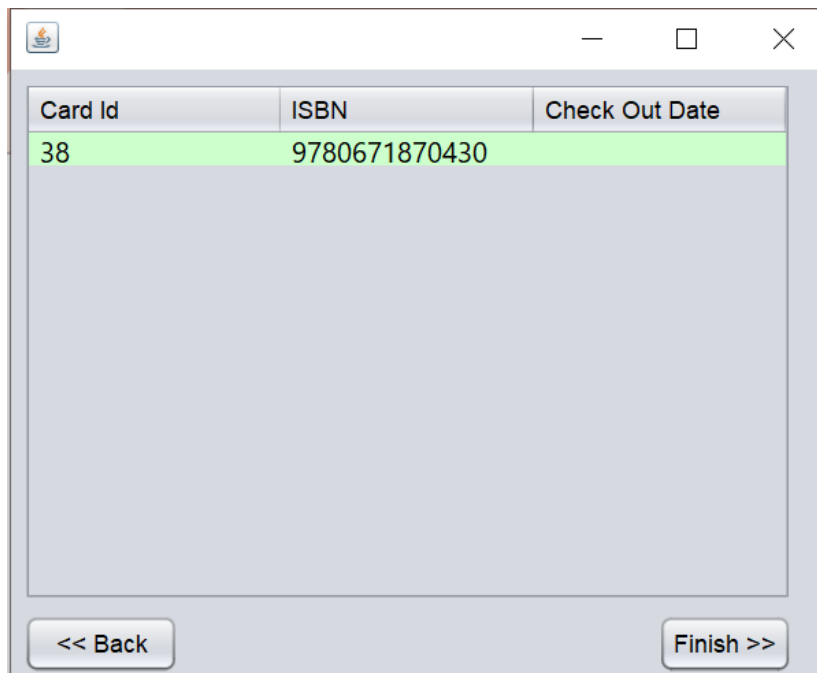
13. You can directly go to Check in page or the fines for homepage by clicking fines or check-in.

When you click **Check-in**. The following page will appear.



A screenshot of a web application window titled "CHECK-IN". The window has a light green background. At the top center, the text "CHECK-IN" is displayed in bold. Below this, there are three input fields labeled "ISBN:", "Name:", and "Card\_Id:". Each label is followed by a white rectangular input box. At the bottom of the form, there are three buttons: "Home", "Fines", and "Done".

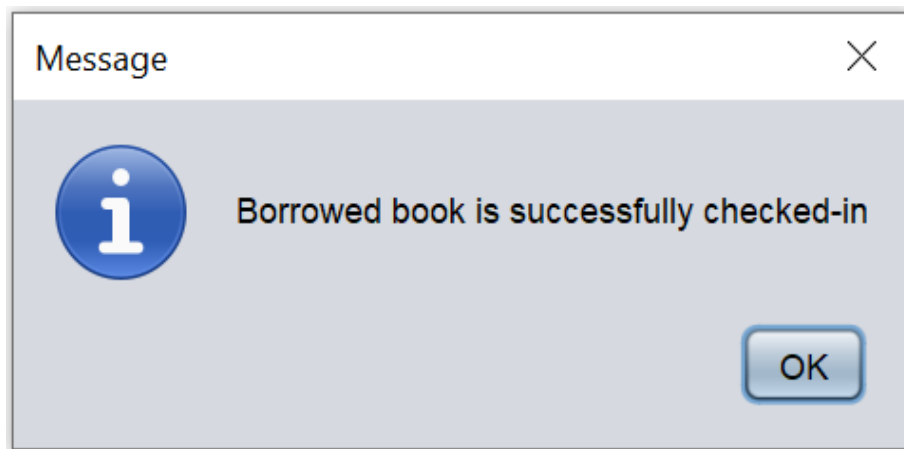
14. Fill the details and click **Done**. It will show you the details of the books under your card-id. Click on the book you want to check in, the following table will appear.



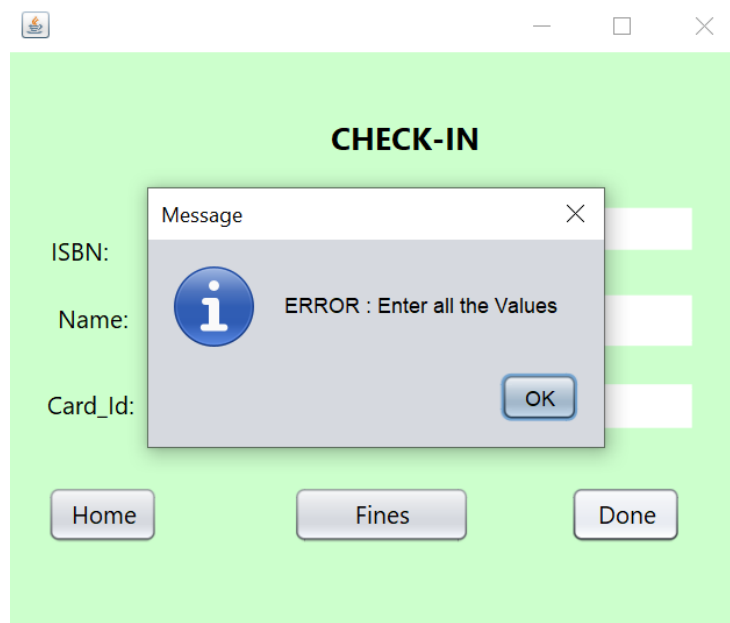
A screenshot of a web application window showing a table of book details. The table has three columns: "Card Id", "ISBN", and "Check Out Date". The first row of data is highlighted in green and contains the values "38", "9780671870430", and an empty cell for "Check Out Date". Below the table, there are two buttons: "<< Back" and "Finish >>".

Card Id	ISBN	Check Out Date
38	9780671870430	

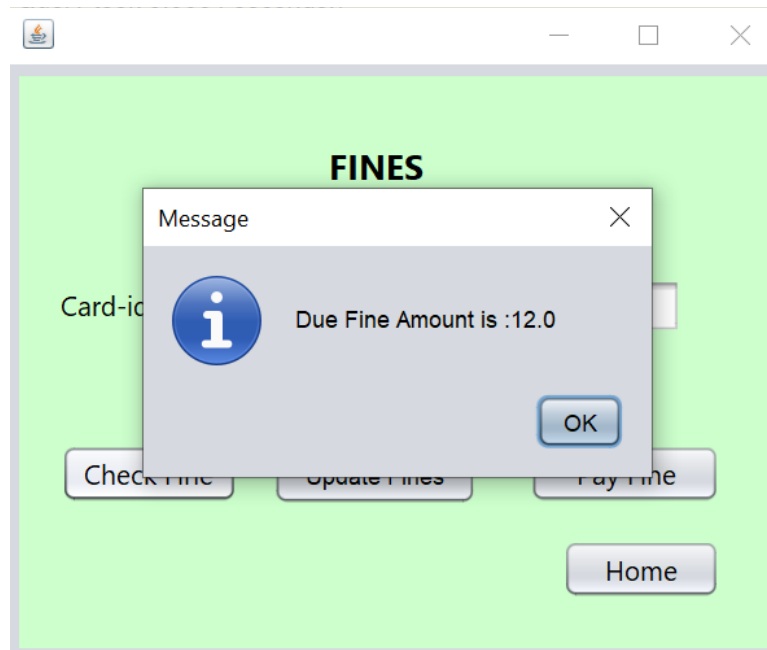
- When the book is checked-in this popup appears on the screen.



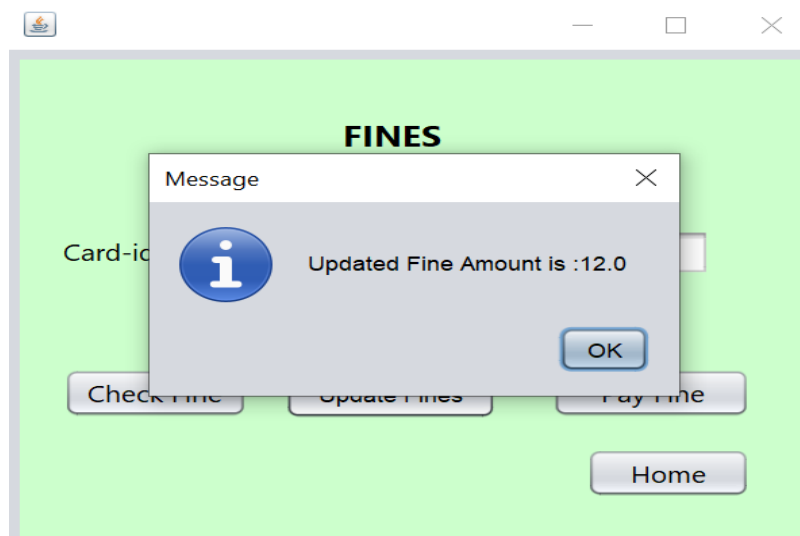
- If the details are not entered in the check in page, then the following pop up will appear.



15. Once checked in we must see whether the borrower has fines. by Clicking on **FINES** button we go to the fines page.



For updating the fine in the database, we have to click on the **Update Fines** button and the fines will be updated and displayed.



16.To pay the fines we click on Pay fines button and the pop-up message saying Fines successfully paid is displayed.

