

EECS 3421

Project – Part 2

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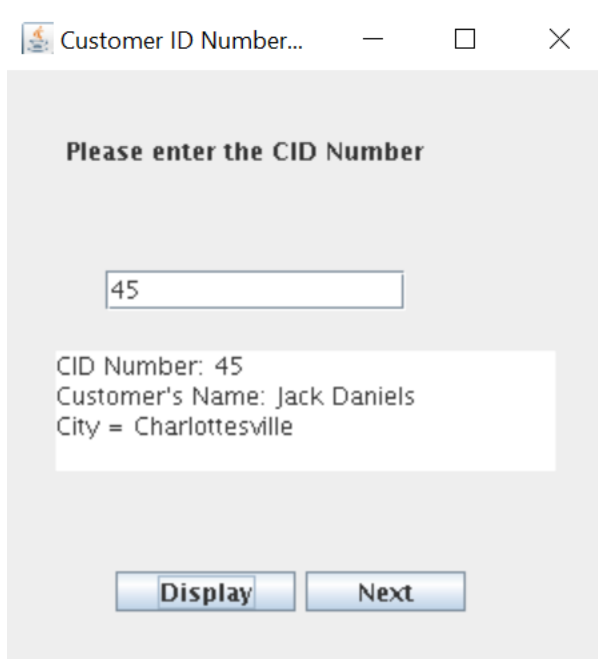
How to Execute the Program

```
CIDNumber$1.class  Categories$1.class  ChooseBook
red 125 % source ~db2leduc/cshrc.runtime
red 126 % javac CIDNumber.java
red 127 % java CIDNumber
^I$
```

To connect to the database you need to use the statement `source ~db2leduc/cshrc.runtime`. Once you have completed that you have to run the main class, which is named `CIDNumber`. This will then proceed to run the program using Java Swing.

All the stored procedures are stored in `a3.java`, and the other files are frames where the program will be executing from frame by frame.

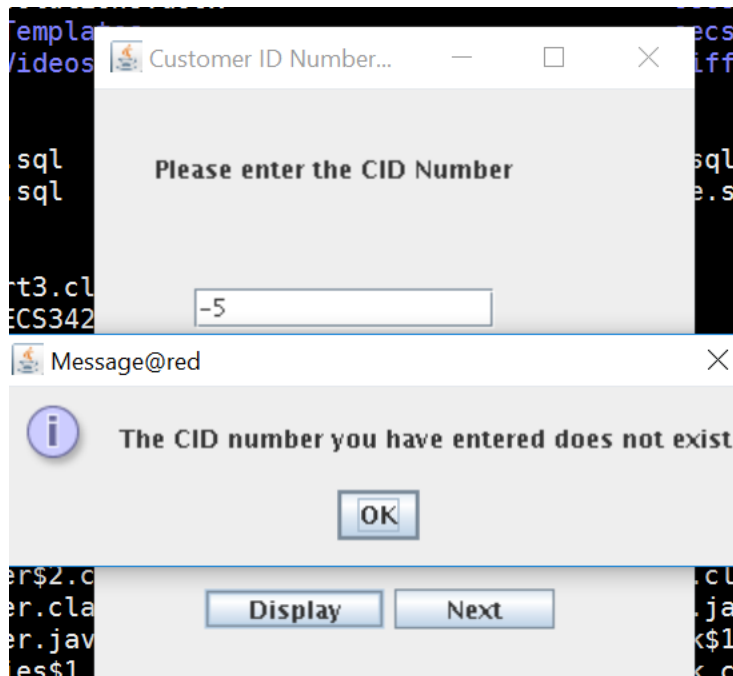
Entering the Customer ID:



The screenshot shows a Java Swing window titled "Customer ID Number...". Inside the window, there is a label "Please enter the CID Number" above a text input field containing the number "45". Below the input field, a text area displays the following information: "CID Number: 45", "Customer's Name: Jack Daniels", and "City = Charlottesville". At the bottom of the window, there are two buttons: "Display" and "Next".

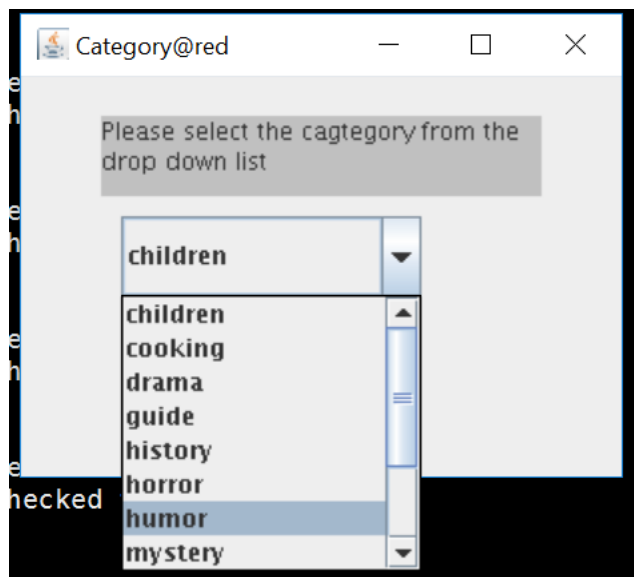
The `CIDNumber` will execute the first `JFrame` where the user is able to enter the `CID Number` for the customer. The program will be only able to proceed if the customer exists. To display the Customer information you would need to click the "Display" button.

If the customer id entered does not exist:



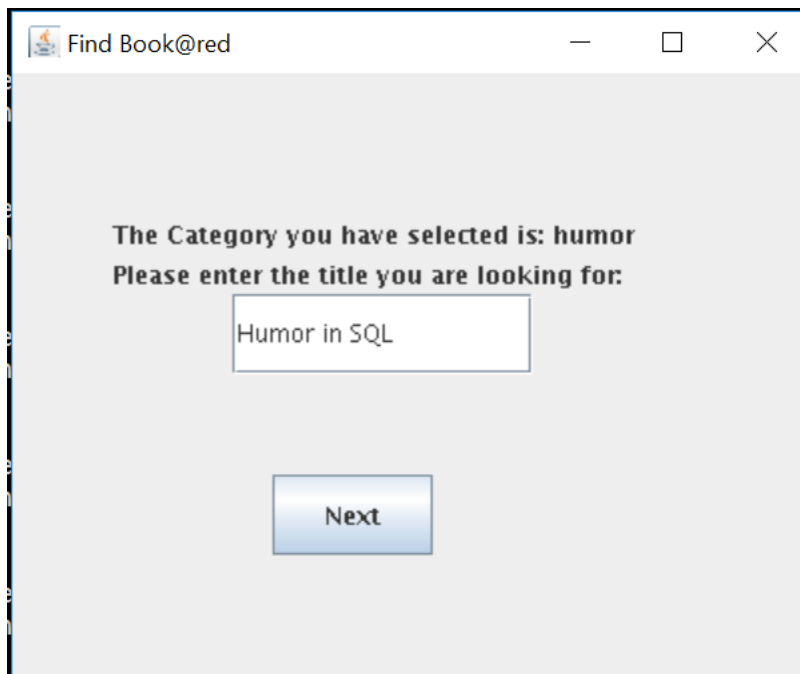
A popup will appear informing the user that the id they have entered does not exist in the database and it will refocus and ask them to try again.

Choosing Categories

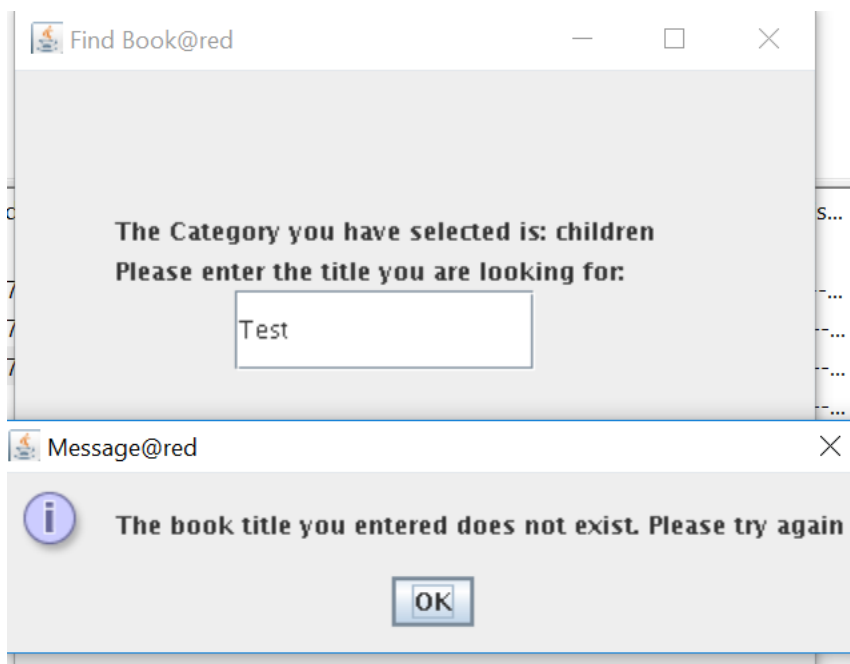


Once the user enters the correct CID number, they will be taken to the next frame that displays a drop down menu of Categories they can choose from. Once they are done, they click next.

Entering the Book Title



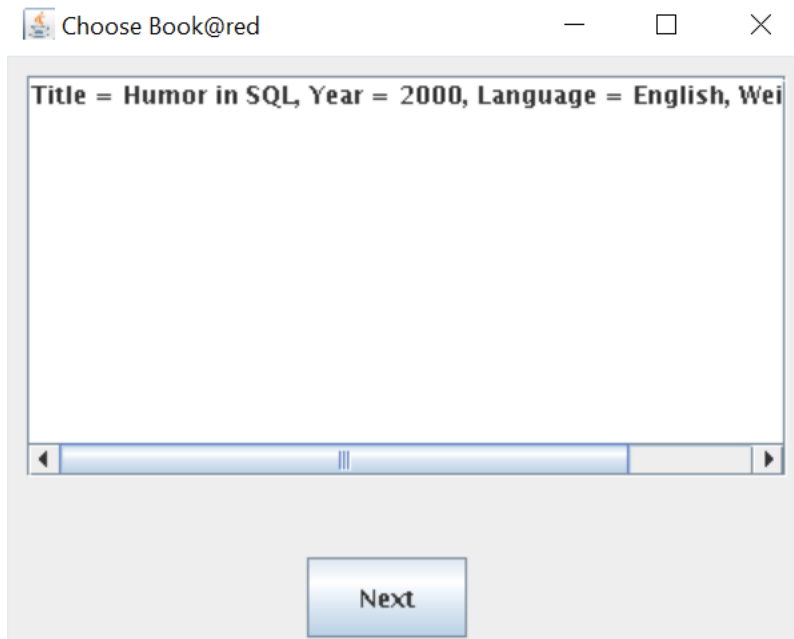
The user will then be asked to enter the Book title they are looking for. As you can see in the picture the console also tells them what category they have selected. If the title they are looking for does not exist in the database then:



Once the user clicks ok they will be redirected back to the Categories frame to start again, but they will not have to re-enter the CID number.

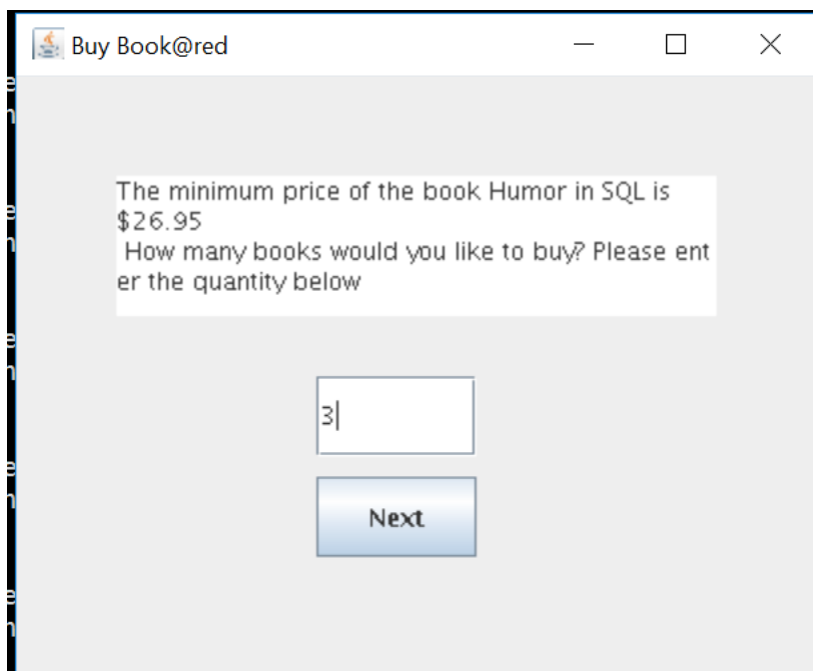
Buying the Book

When the user enters an existing book title they are taken to the next frame, which displays the available books:

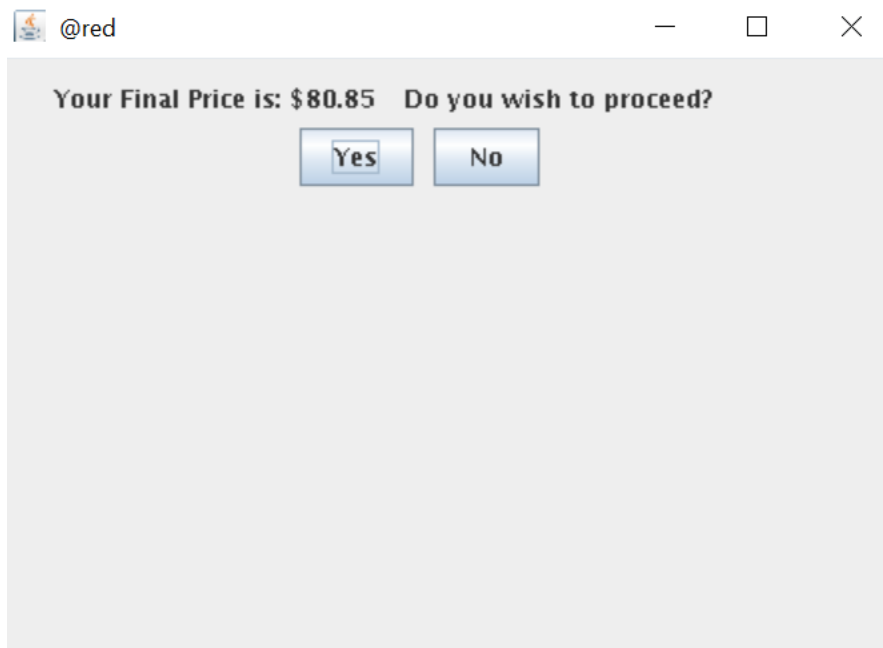


Purchase the Item

For the user to purchase the item, the console first finds the minimum price of the book. Since each customer is a member of a club the database checks the minimum price of the clubs they are in and displays that price. Then they are asked to enter the quantity they wish to buy.



When you click next, you are taken to a confirmation page, which will display their final price:

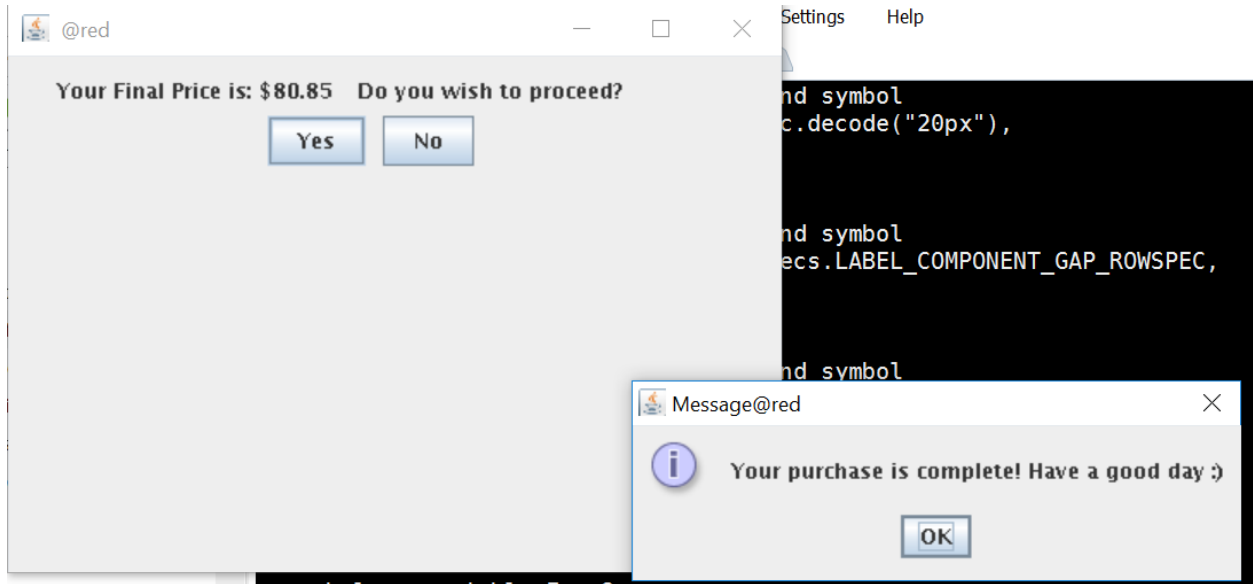


If the user agrees to the final price, they click yes, and their purchase is entered into the database as seen below:

```
db2 =>
```

44	UVA Club	Rabbits are nice	2000	2001-11-09-16.18.00.000000	1
44	AAA	Quantum Databases	1999	2001-05-26-17.23.00.000000	1
45	Oprah	Capricia's Conundrum	1989	2000-03-19-10.31.00.000000	1
45	W&M Club	Okay, Why Not?	1997	2000-03-19-10.31.00.000000	1
45	W&M Club	The Stars are not Enough	1998	2000-03-19-10.31.00.000000	1
45	W&M Club	Eigen Eigen	1980	2001-07-14-11.36.00.000000	1
45	W&M Club	Eigen Eigen	1980	2017-04-02-12.38.30.421274	2
45	W&M Club	Humor in SQL	2000	2017-04-02-13.15.06.925019	3
45	W&M Club	Humor in SQL	2000	2017-04-02-14.17.51.410316	3

290 record(s) selected.



If the user does not agree then the program will exit and the item will not be added to the database:

