

# RECODED SESSION FOR PROJECT II: APPs

EECS 3421

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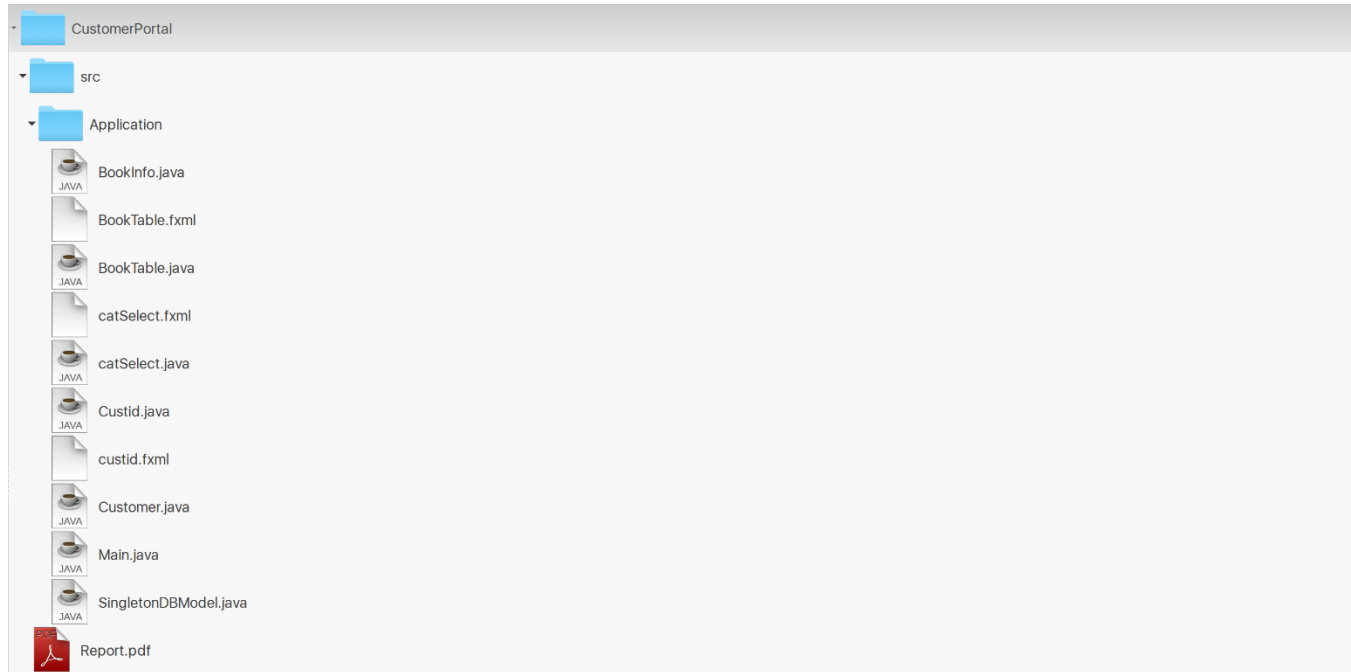
**Prism ID: apsw02**

**Student # 212938734**

This document provides information to compile and run the application for APPs. Various use cases for the application are discussed to highlight it's working.

# PROGRAM COMPILATION AND RUN

Directory structure for the Application is shown below:



All files with FXML extensions contain information regarding GUI built using JavaFX Scene builder. All files with java extensions are source files containing the code for application. As apparent from directory structure shown above, all the files are located inside package named **Application** contained inside **src** folder for CustomerPortal Application.

## Compilation

For Compiling the project, open terminal window and move to folder containing project directory **CustomerPortal**.

1. Move inside **src** directory using: **cd src**
2. For compilation type **javac Application/\*.java** to compile all the java files located inside Application directory. This will result in class files located inside **Application** folder.

```
/eecs/home/apsw02/EECS3421/CustomerPortal
red 92 % ls
Report.pdf  src
red 93 % cd src
red 94 % pwd
/eecs/home/apsw02/EECS3421/CustomerPortal/src
red 95 % javac Application/*.java
```

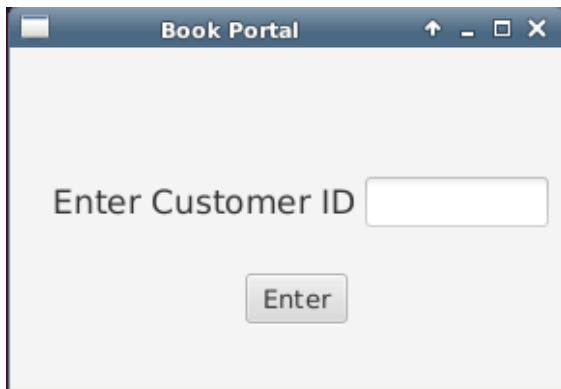
## Running the Application

1. To run the Application, make sure to be inside same **src** folder.
2. Run the application by typing **java Application.Main** inside terminal window as shown below.

```
red 106 % pwd
/eecs/home/apsw02/EECS3421/CustomerPortal/src
red 107 % ls
Application
red 108 % java Application.Main
```

## RECORDED SESSION

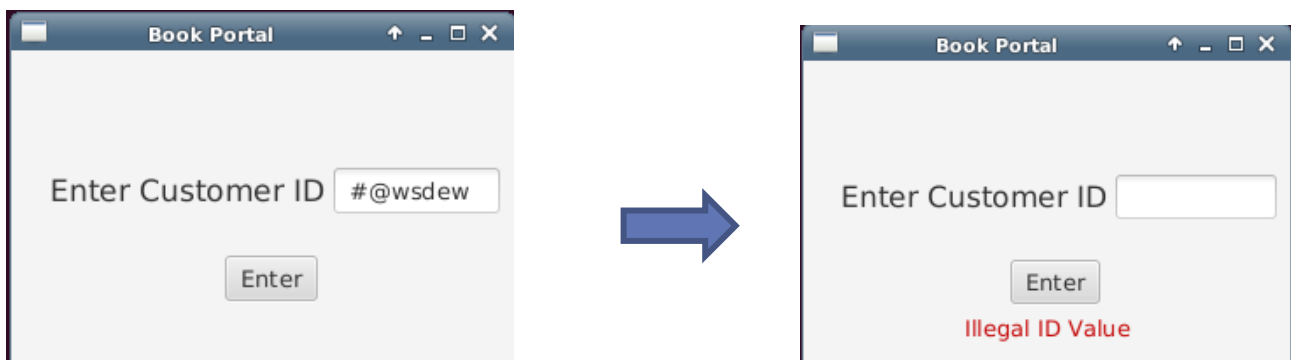
1. Application starts by displaying a window for user to enter customer ID as shown below:



- User is supposed to enter a customer ID which exist inside database, however since input can be illegal following use cases are shown to catch all the illegal inputs.

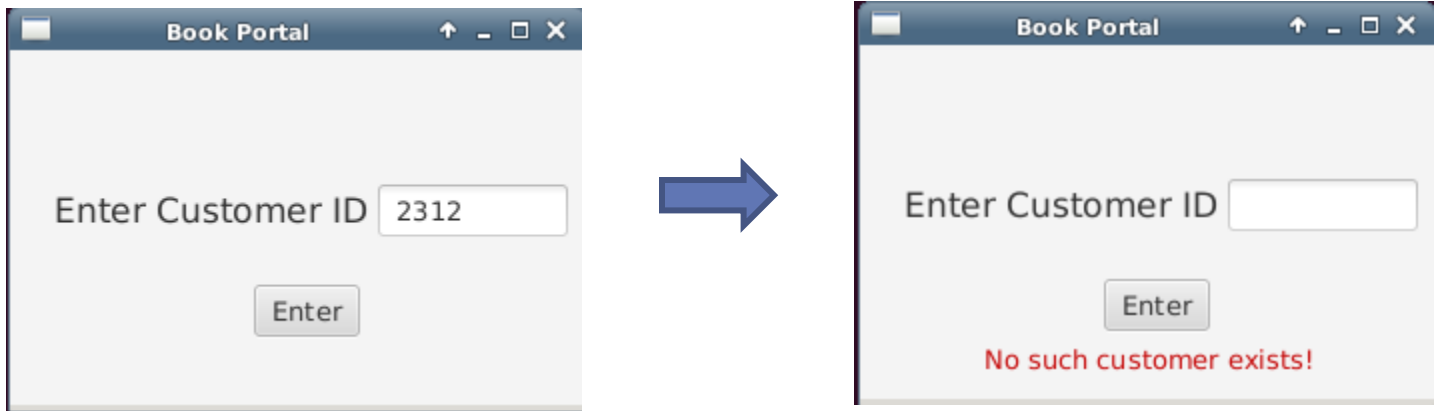
### *Invalid number input*

If the user input is not valid number, input text field is cleared and user is shown with error message highlighting an invalid number



### *ID not present in Database*

If the user id provided by user is valid number however not existing inside database, input text field is cleared and user is shown with error message showing the information.



### *Valid User ID*

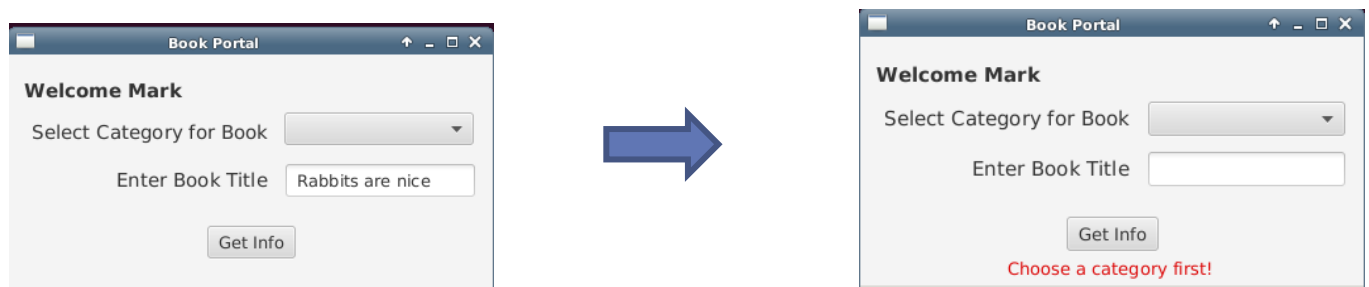
If the input provided by user is a valid input id, user is shown a new window to select book category and book title after it press **Enter** Button.



2. In new window, user is asked to select a category and enter a valid book title. Following use cases show how Invalid input is handled by application.

### *No Category selected*

In case user forgets to select category from drop down menu, window will show an error message to select the category first as shown below.



### *Empty Book Title*

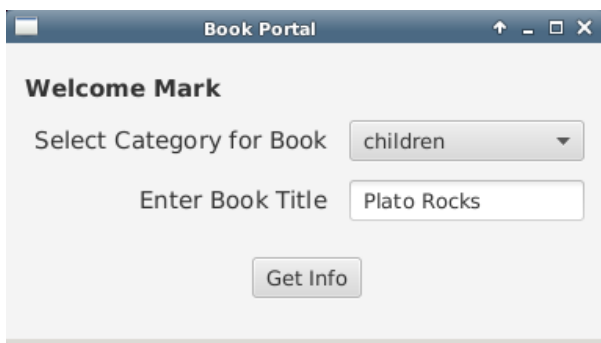
If book title field is left empty, input fields are cleared and user is presented with error message highlighting the error to not have an empty book title.



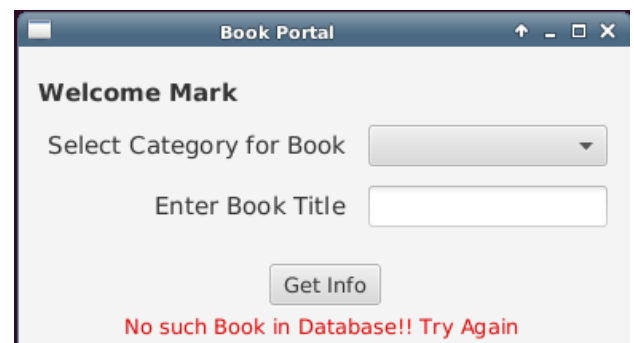
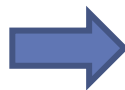
The screenshot shows a window titled "Book Portal" with a "Welcome Mark" header. Below the header, there is a label "Select Category for Book" followed by a dropdown menu showing "children". Below that is a label "Enter Book Title" followed by an empty text input field. A "Get Info" button is positioned below the input field. At the bottom of the window, a red error message reads "Enter title for book!".

### *Invalid Book Title*

If book title entered by the user is not a valid book title for the selected category, input fields are cleared and user is presented with error message highlighting the error.



The screenshot shows the "Book Portal" window with the "Welcome Mark" header. The "Select Category for Book" dropdown menu shows "children". The "Enter Book Title" text input field now contains the text "Plato Rocks". The "Get Info" button is still present.



The screenshot shows the "Book Portal" window with the "Welcome Mark" header. The "Select Category for Book" dropdown menu shows "children". The "Enter Book Title" text input field is now empty. The "Get Info" button is still present. At the bottom of the window, a red error message reads "No such Book in Database!! Try Again".

### Valid category and book title

If category and book title pair exists inside database, user is shown next screen for making purchase.

The image shows two screenshots of a web application titled "Book Portal". A blue arrow points from the first screenshot to the second.

**First Screenshot (Welcome Mark):**

- Header: Book Portal
- Section: Welcome Mark
- Form: Select Category for Book (dropdown menu with "children" selected)
- Form: Enter Book Title (text input with "Rabbits are nice")
- Button: Get Info

**Second Screenshot (BOOK INFORMATION):**

- Header: Book Portal
- Section: BOOK INFORMATION
- Table:

Title	Year	Category	Language	Weight
Rabbits are nice	1992	children	English	119

Choose a Book from Table Above

- After selecting book and category, user is provided with book information corresponding to its input and asked to select the book she wants to buy. After the selection is made Minimum Price for the book is shown to the user.

The image shows a screenshot of the "Book Portal" web application. The "BOOK INFORMATION" section is displayed, showing a table with book details. Below the table, there is a prompt to choose a book, and then the minimum price for the selected book is shown, along with a quantity input field.

**BOOK INFORMATION**

Title	Year	Category	Language	Weight
Rabbits are nice	1992	children	English	119

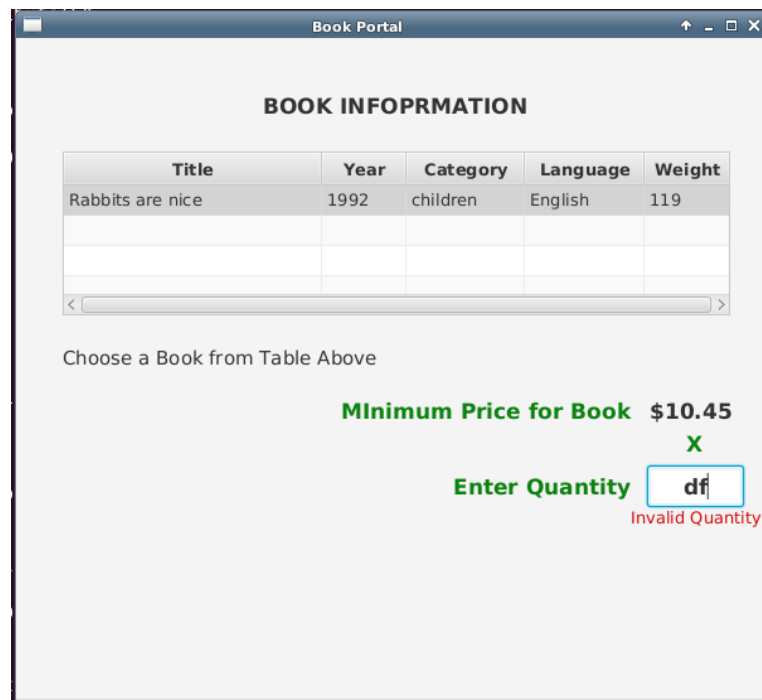
Choose a Book from Table Above

**Minimum Price for Book \$10.45**

**Enter Quantity**

### Illegal Quantity Input

Since the quantity supplied by the user can be erroneous, user is shown error on giving an illegal input.



The screenshot shows a web application window titled "Book Portal". It features a table under the heading "BOOK INFOPRMATION" (sic) with columns: Title, Year, Category, Language, and Weight. The first row contains "Rabbits are nice", "1992", "children", "English", and "119". Below the table is a scroll bar. The text "Choose a Book from Table Above" is displayed. Below this, the text "Minimum Price for Book \$10.45" is shown in green, followed by a green "X". Below that, the text "Enter Quantity" is shown in green, followed by a text input field containing "df". Below the input field, the text "Invalid Quantity" is shown in red.

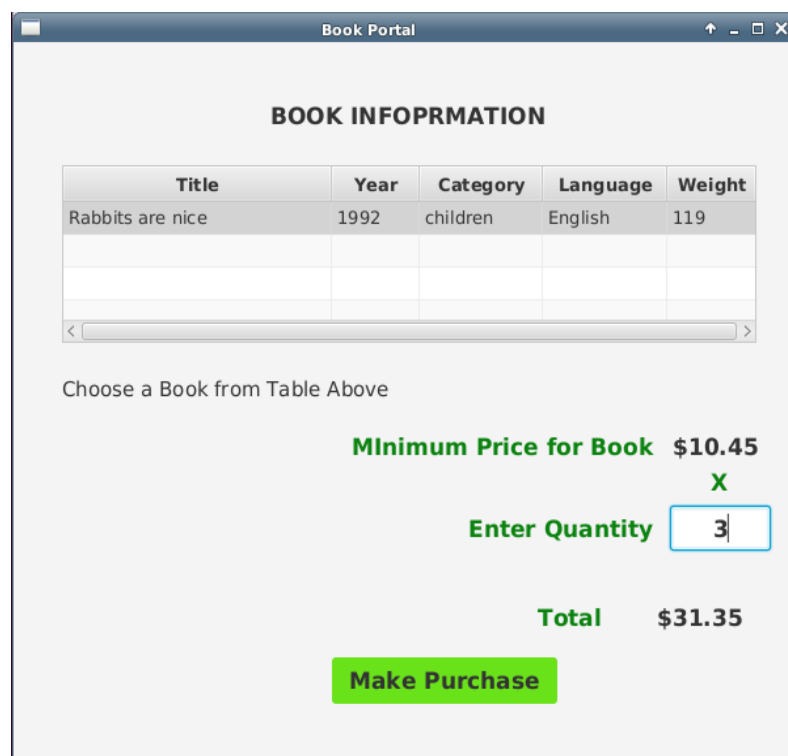
Title	Year	Category	Language	Weight
Rabbits are nice	1992	children	English	119

Choose a Book from Table Above

Minimum Price for Book \$10.45  
X

Enter Quantity   
Invalid Quantity

4. After providing a valid quantity, user is shown with **Total Price** and **Make Purchase** button to make a purchase if she wants.



The screenshot shows the same web application window as before, but with a valid quantity entered. The text "Minimum Price for Book \$10.45" is shown in green, followed by a green "X". Below that, the text "Enter Quantity" is shown in green, followed by a text input field containing "3". Below the input field, the text "Total \$31.35" is shown in green. At the bottom, there is a green button labeled "Make Purchase".

Title	Year	Category	Language	Weight
Rabbits are nice	1992	children	English	119

Choose a Book from Table Above

Minimum Price for Book \$10.45  
X

Enter Quantity   
Total \$31.35

Make Purchase

5. At this point user can make a purchase or exit the application. If she chose to make this purchase and click Make Purchase Button, she is greeted with message showing that purchase is successful as shown below:

The screenshot shows a window titled "Book Portal" with a "BOOK INFOPRMATION" section. It contains a table with columns: Title, Year, Category, Language, and Weight. The first row shows "Rabbits are nice" from 1992, children's category, English language, with a weight of 119. Below the table, it says "Choose a Book from Table Above". The "Minimum Price for Book" is \$10.45. The user has entered a quantity of 3. The total price is \$31.35. A green "Make Purchase" button is visible, and a green message "Purchase Succesful" is displayed at the bottom.

Title	Year	Category	Language	Weight
Rabbits are nice	1992	children	English	119

Choose a Book from Table Above

**Minimum Price for Book** \$10.45

**Enter Quantity**

**Total** \$31.35

**Make Purchase**

**Purchase Succesful**

This purchase is also reflected in database YRB\_PURCHASE table as shown below:

44	AAA	Math is fun!	1989	2001-10-23-10.04.00.000000	1
44	Readers Digest	Cuisine Anglaise!?	1993	2001-10-23-10.04.00.000000	1
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
2	YRB Gold	Plato Rocks	1975	2017-04-03-14.30.52.750657	3
32	AAA	Cats are not Dogs	1992	2017-04-03-14.41.05.018521	13
32	Oprah	Rabbits are nice	1992	2017-04-03-14.53.51.585008	3

291 record(s) selected.