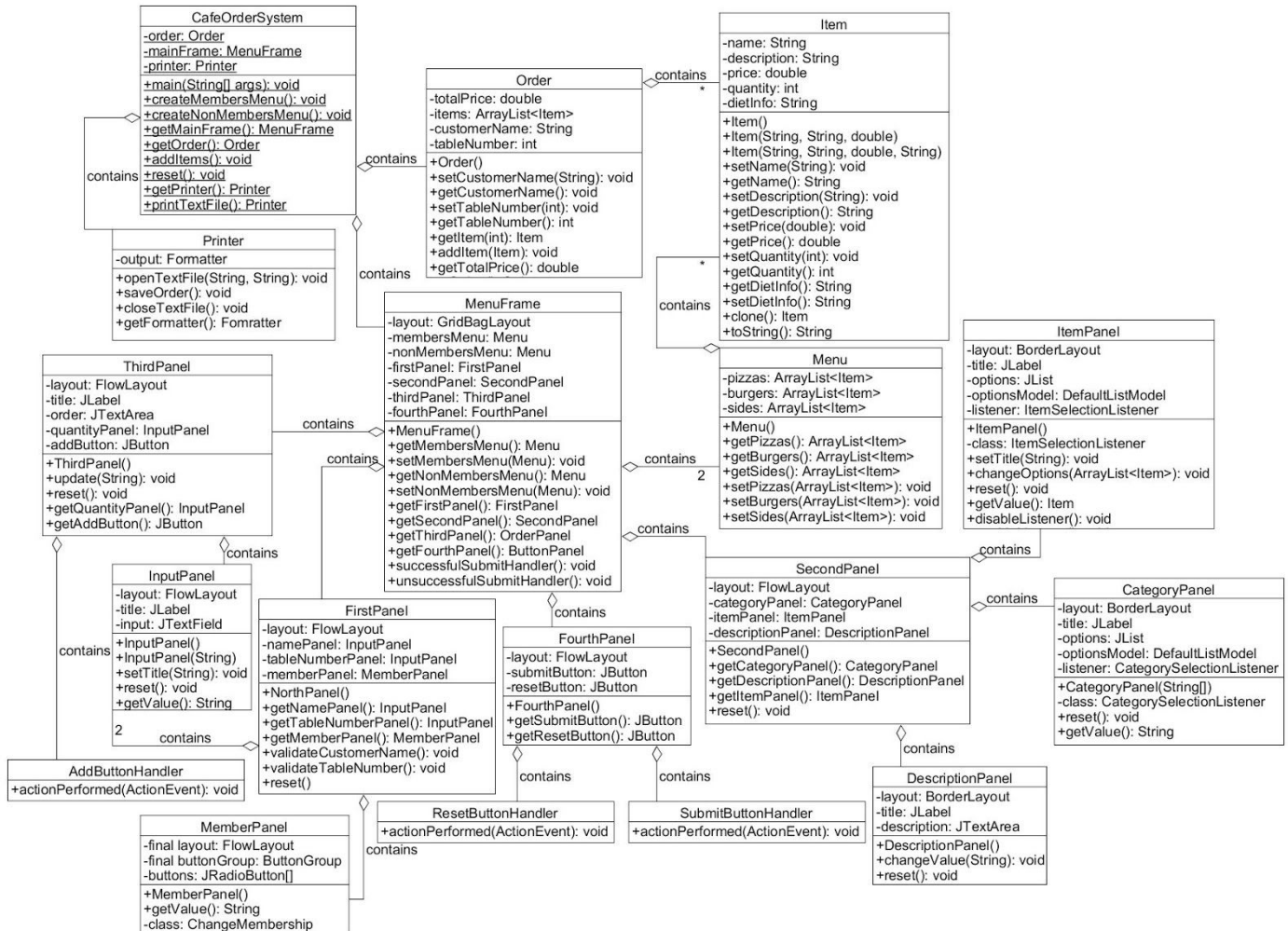


CSIT121 Final Project

Sean Overton

SN: 6421490

1)UML Class Diagram:



2)GUI and Explanations:

The screenshot shows the 'Cafe Order System' window. At the top, there are input fields for 'Name:', 'Table Number:', and 'Membership:' with radio buttons for 'Member' and 'Non-member'. Below this is a menu section with a category list on the left (Pizzas, Burgers, Sides) and a table of items in the center. The 'Pizzas' category is selected. The items table lists various pizzas with their prices and some are marked as 'Vegetarian'. To the right of the menu is a 'Description:' text area. At the bottom, there is a 'Quantity:' input field, an 'Add item' button, and an 'Order:' text area. At the very bottom are 'Reset' and 'Submit' buttons.

Item	Price	Vegetarian
Tropicana Pizza	\$13.0	
BBQ Meat Lovers Pizza	\$19.0	
Pepperoni Pizza	\$12.0	
Chicken, Mushroom and Brie Pizza	\$17.0	
Garlic Pizza	\$11.0	
Slow-Roasted Lamb Pizza	\$15.0	Vegetarian
Green Pizza	\$15.0	Vegetarian

-Design uses a combination of JFrame, JPanel (with layouts including GridBagLayout and FlowLayout), JTextField, JLabel, JRadioButton, JList and JButton to create the above GUI layout.

-It allows for a number of inputs ie. the customer name, table number and membership status as well as the items selection and quantity from the menu to add to the order

-the program is able to handle input errors

-it is also capable of generating a text file of the order upon "submission" or reset the order

3)Compilation and execution/testing:

Successful compilation and execution

```
C:\Users\Sean\Documents\CSI121 OOP\Final Project\Rev2>javac CafeOrderSystem.java
```

```
C:\Users\Sean\Documents\CSI121 OOP\Final Project\Rev2>java CafeOrderSystem
```

1. Enter name, table number and select membership.

This screenshot shows the same 'Cafe Order System' window, but now with user input. The 'Name' field contains 'Sean', the 'Table Number' field contains '26', and the 'Membership' radio button for 'Member' is selected. The 'Pizzas' category is still selected in the menu. The 'Description' field is empty. The 'Quantity' field is empty, and the 'Add item' button is visible. The 'Order' field is empty. The 'Reset' and 'Submit' buttons are at the bottom.

2. Select category, item and quantity.

Cafe Order System

Name: Table Number: Membership: ☒ Member ☐ Non-member

Category: **Pizzas** Items:

Tropicana Pizza	\$10.0
BBQ Meat Lovers Pizza	\$16.0
Pepperoni Pizza	\$9.0
Chicken, Mushroom and Brie Pizza	\$14.0
Garlic Pizza	\$8.0
Slow-Roasted Lamb Pizza	\$12.0
Green Pizza	\$12.0
Vegetarian	

Description:

Quantity: Order:

3. Add the first dish.

Cafe Order System

Name: Table Number: Membership: ☒ Member ☐ Non-member

Category: **Pizzas** Items:

Tropicana Pizza	\$10.0
BBQ Meat Lovers Pizza	\$16.0
Pepperoni Pizza	\$9.0
Chicken, Mushroom and Brie Pizza	\$14.0
Garlic Pizza	\$8.0
Slow-Roasted Lamb Pizza	\$12.0
Green Pizza	\$12.0
Vegetarian	

Description:

Tropicana Pizza Quantity: 2 \$20.0

Total Price: \$20.0

Quantity: Order:

4. Add several more dishes.

Cafe Order System

Name: Table Number: Membership: ☒ Member ☐ Non-member

Category: **Pizzas** Items: **Sides**

Sweet potato fries (Bowl)	\$6.5	Vegetarian
Chips (Bowl)	\$5.0	Vegetarian
Wedges (Bowl)	\$6.5	Vegetarian
Side salad	\$5.0	Vegetarian

Description:

Tropicana Pizza	Quantity: 2	\$20.0	
BBQ Meat Lovers Pizza	Quantity: 1	\$16.0	
Steak Sandwich	Quantity: 1	\$18.5	
Side salad	Quantity: 3	\$15.0	Vegetarian
Sweet potato fries (Bowl)	Quantity: 2	\$13.0	Vegetarian

Total Price: \$82.5

Quantity: Order:

5. Submit order and view text file.

Order was placed successfully!

Text file has been generated.

OK

dd item | Order:

MemberPanel\$1.class Sean_26 - Notepad

MemberPanel.class File Edit Format View Help

Menu.class Customer name: Sean, Table Number: 26

MenuFrame.class

Order.class

OrderPanel.class

Printer.class

ResetButtonHandle

Sean_26

SecondPanel.class

SubmitButtonHand

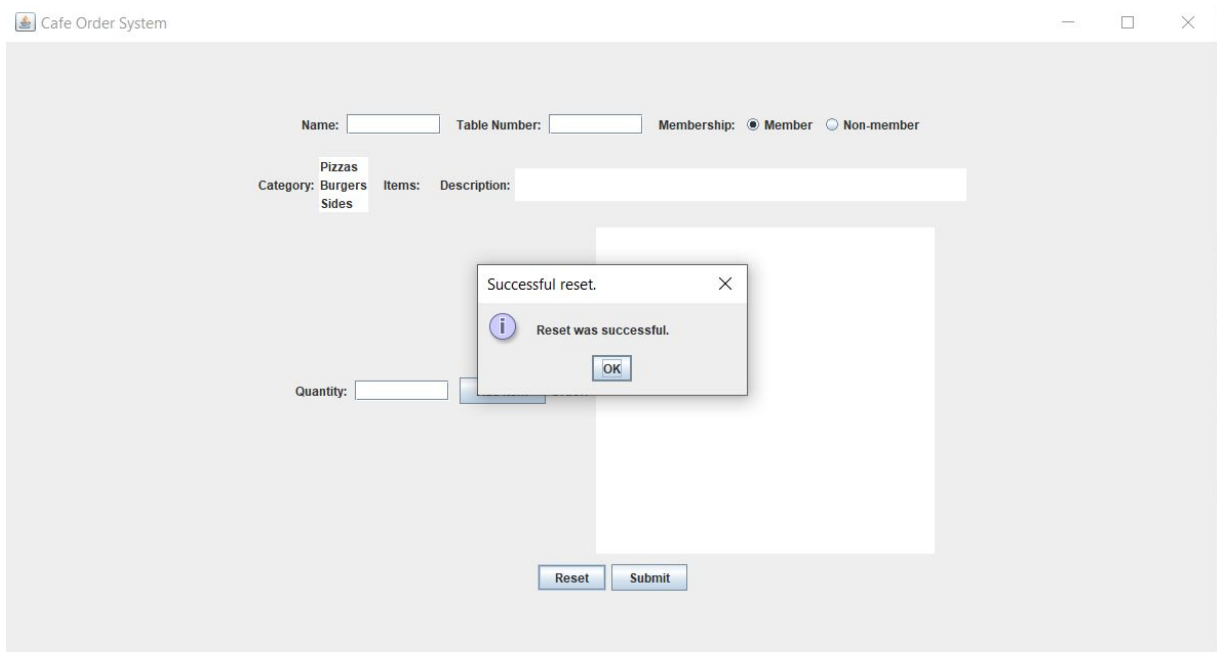
ThirdPanel.class

UmlClassDiagram

Tropicana Pizza	Quantity: 2	\$20.0	
BBQ Meat Lovers Pizza	Quantity: 1	\$16.0	
Steak Sandwich	Quantity: 1	\$18.5	
Side salad	Quantity: 3	\$15.0	Vegetarian
Sweet potato fries (Bowl)	Quantity: 2	\$13.0	Vegetarian

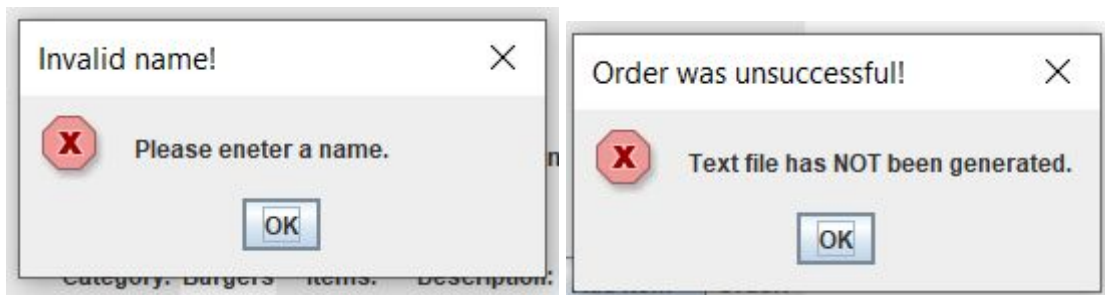
Total Price: \$82.5

6. Reset the Order -popup notification and all text fields are blanked

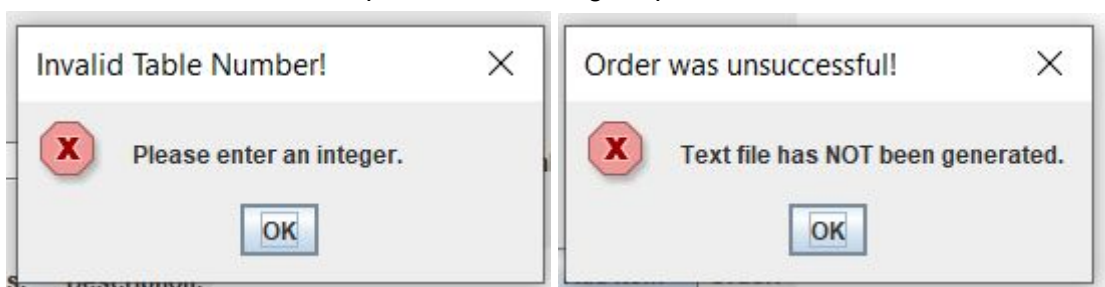


Input Validation:

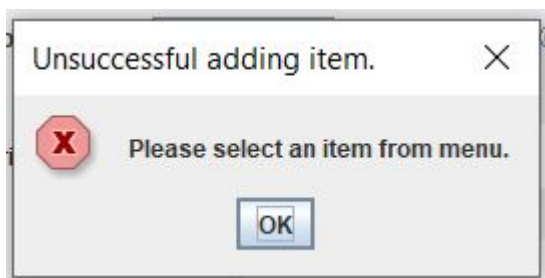
1. No "Name" input upon "Submit" button pressed



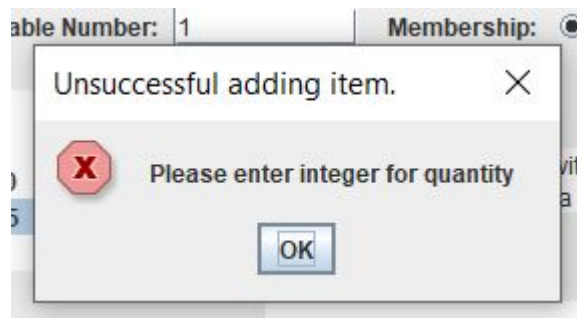
2. No "table number" input or invalid integer upon "Submission"



3. No Item selected when "add" button pressed



4. No "quantity" or not an integer when "add" button pressed



4)Text file generated within same directory:

