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Assignment Cover Letter

(Individual/Group* Work)

Student Information:	Surname	Given names	Student ID Number
1.	**Yowen**	**Yowen**	**2301902390**

Course Code : **COMP6510** **Course Name** : **Programming Languages**

Class : **L2AC** **Name of Lecturer(s)** : 1. **Jude Joseph Lamug Martinez**

Major : **CS**

Title of Assignment : **Restaurant Menu Manager**
(if any)

Type of Assignment : **Final Project**

Submission Pattern

Due Date : **20-06-20** **Submission Date** :

The assignment should meet the below requirements.

1. Assignment (hard copy) is required to be submitted on clean paper, and (soft copy) as per lecturer's instructions.
2. Soft copy assignment also requires the signed (hardcopy) submission of this form, which automatically validates the softcopy submission.
3. The above information is complete and legible.
4. Compiled pages are firmly stapled.
5. Assignment has been copied (soft copy and hard copy) for each student ahead of the submission.

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Declaration of Originality

By signing this assignment, I/we* understand, accept and consent to BiNus International terms and policy on plagiarism. Herewith I/we* declare that the work contained in this assignment is my/our* own work and has not been submitted for the use of assessment in another course or class, except where this has been notified and accepted in advance.

Signature of Student: (Name of Student)

1. Yowen *) Delete the inappropriate option

“Restaurant Menu Manager”

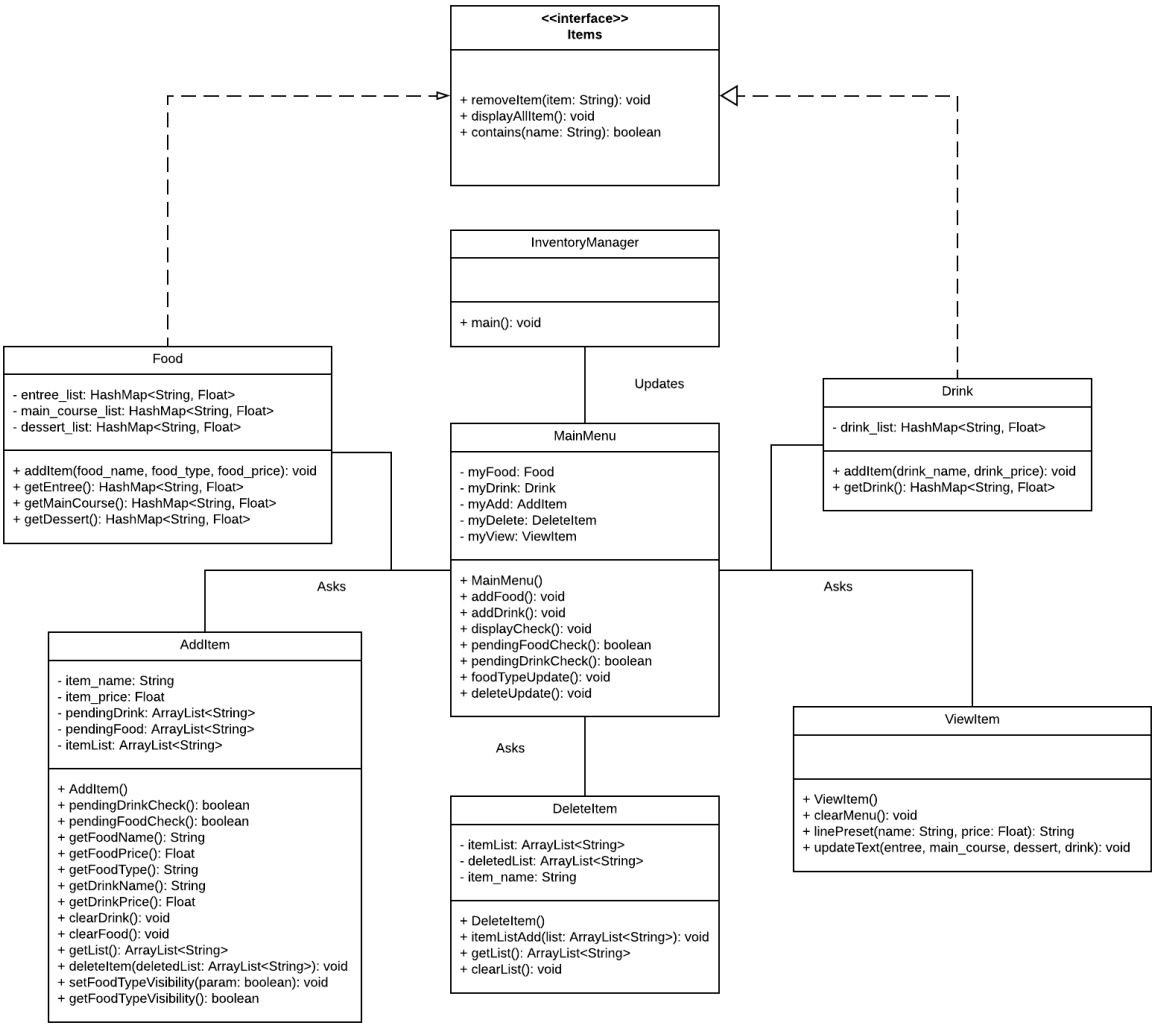
Name: Yowen

ID: 2301902390

Project specification:

As indicated by the project’s name, the purpose of this program is to act as a menu manager for restaurants. The program supports up to 4 different types of items including entrées, main courses, desserts and drinks. The program when launched will run a main menu screen with 3 different options. The first option being add item where the user would be able to enter the name of the item along with its price. In this menu, the user will be able to choose the type of the item. Since this program makes use of ArrayLists, there is no defined limit for the amount of items the user can add. The second option is delete item where the user would be able to delete a specified item by its name. This menu is also equipped with a delete all button that will remove every items already added. The last option is the view menu where the user would be able to view all the items already added separated by their types along with their prices. The GUI side of this application is built using JFrame.

Solution design:



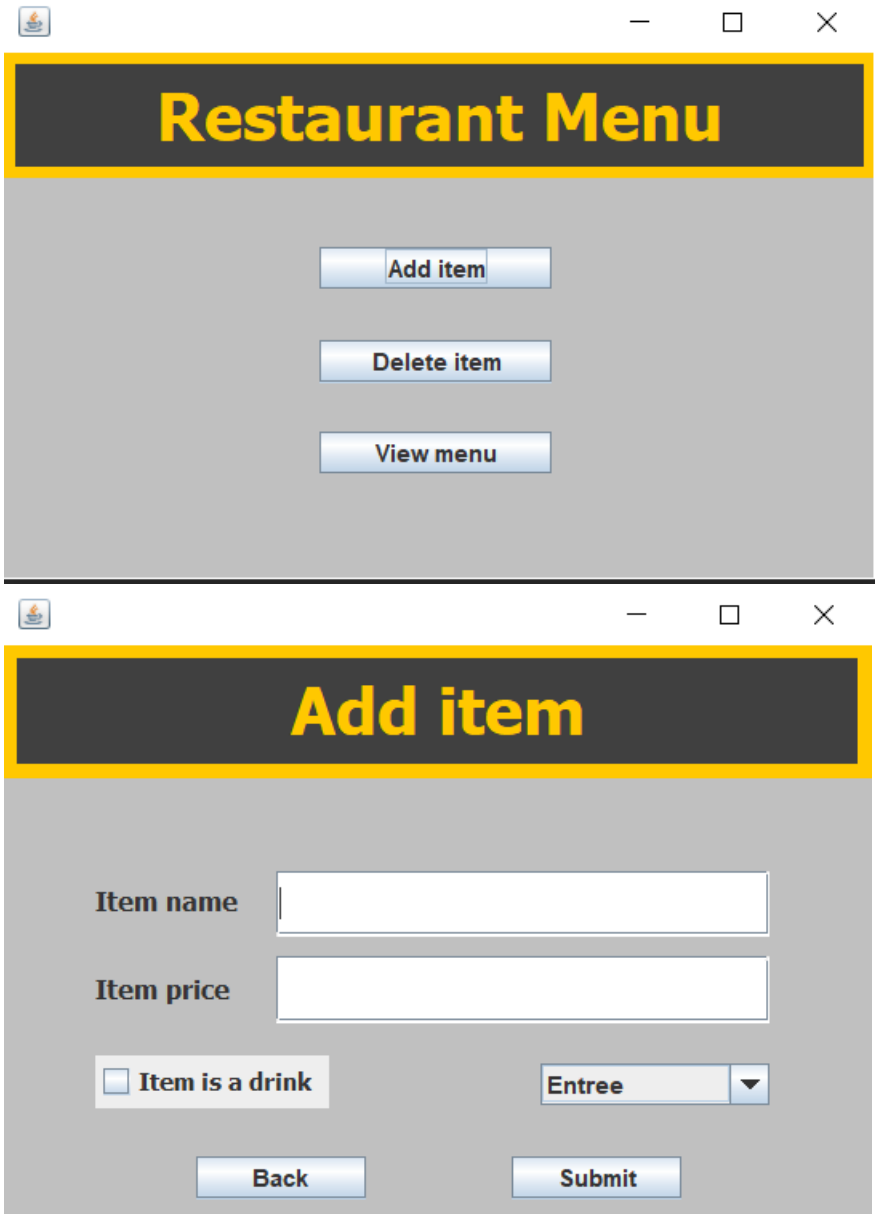
Firstly, the data inputted by the user through add item will go through a series of validation checks to ensure data entered is viable. After screening, the data will then be loaded into pendingFood or pendingDrink depending on the item type. Back at main menu, the function pendingFoodCheck and pendingDrinkCheck is used to check whether there are any food or drinks ready to be added. The driver file (InventoryManager) runs these functions continuously under a while loop. When the program detects an item is ready to be added, it will run MainMenu's addFood/addDrink. When this function is run, it runs myFood's/myDrink's addItem function along with AddItem's clearFood/clearDrink. This is the main concept of the add item window.

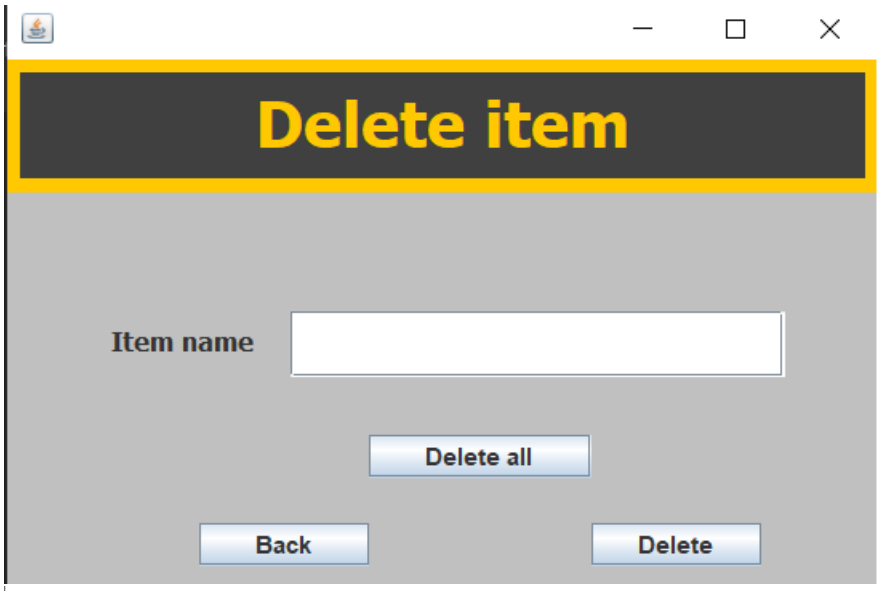
Next, for deleting items, the function itemListAdd will run first using myAdd's getList function to load the list of available items. Once the program has verified that the user inputted data is present to be deleted, it will firstly remove the specified item from

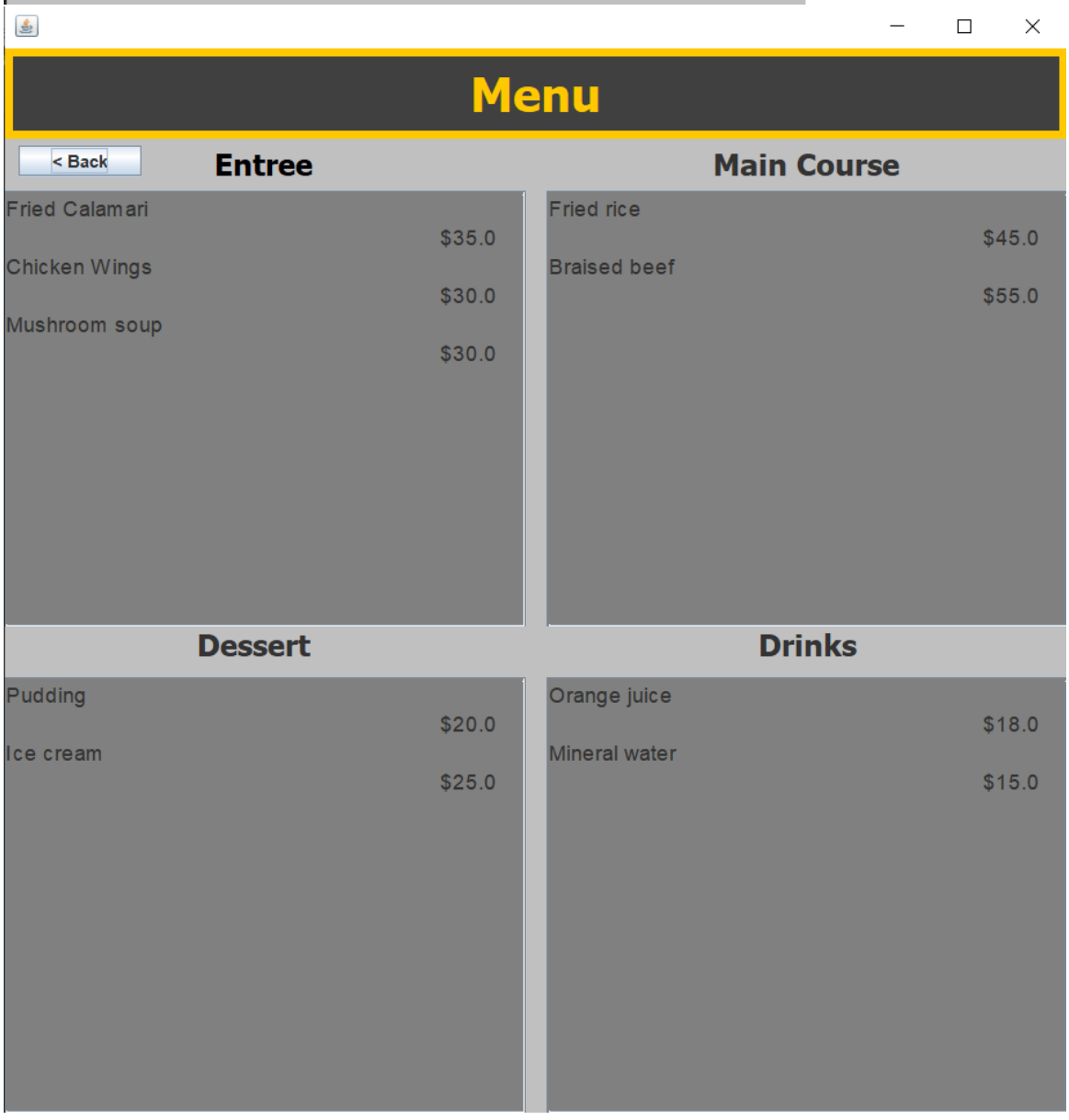
myDelete's itemList then the item is added to myDelete's deletedList. Lastly, back at the InventoryManager class, the function MainMenu.deleteUpdate() is run continuously. This function deletes items from myAdd's itemList using myDelete's deletedList as a parameter. It also then deletes the item from myFood and myDrink's lists respectively.

Lastly, for viewing items, it firstly runs clearMenu() to avoid displaying outdated data. This is followed with updateText() using myFood's 3 getters and myDrink's getDrink() method to update the menu. The function linePreset is used as a preset setter for the item name and price so that it does not look messy on the menu.

Screenshots:




Delete item
Item name
Delete all
Back
Delete


Menu
< Back
Entree
Fried Calamari
$35.0
Chicken Wings
$30.0
Mushroom soup
$30.0
Main Course
Fried rice
$45.0
Braised beef
$55.0
Dessert
Pudding
$20.0
Ice cream
$25.0
Drinks
Orange juice
$18.0
Mineral water
$15.0

Resources:

https://stackoverflow.com/questions/10801104/how-to-make-a-jframe-scrollable-in-java
https://javatutorial.net/jframe-buttons-listeners-text-fields
https://www.youtube.com/watch?v=MPK43O87atA