

Bach (Brian) Nguyen - CS5004 - Project

Project Design:

- In the beginning, a selection window will pop up asking for user their choice of which restaurant that they want to order foods from. I have created 3 restaurants Thai, Vietnamese and Korean for this project and each restaurant will have its own foods and drinks menus.
- Clicking in one of the three restaurants will bring customer to that restaurant's customized window with its own foods and drinks menu for selection. Customers can always go back to the beginning selection window by clicking the **BACK** button on the top left corner.
- Each restaurant's window has mostly the same design with the difference lies in its theme/ background and its foods (appetizer, entree and dessert) and drinks (wine and soft drinks) menus. The similarities are:
 - + The Customer Name and Contact Number sections
 - + 3 buttons Reset, Calculate and Print Receipt (their functions will be explained in more details in README file)
 - + The main receipt section which lists customer's choices of foods and drinks as well as their quantities
 - + The SERVICE OPTIONS section
 - + The billing section.
- The application usage will be provided in more details in the README file.
- Project Diagram is included in the project folder / zip file for your reference.

Objectives:

- **Primary:**
 - + Successfully design an application for restaurant's ordering and check-out system using Swing library in Java ✓
 - + Connect information about customers and the foods and drinks they choose ✓
 - + Implement working buttons in order for our app/program to function properly ✓
- **Secondary:**
 - + Create background for each restaurant's pop-up window in order to reflect restaurant theme ✓
 - + Add SERVICE OPTIONS functionality, changing the total price of the bill depending on customer's choice ✓

- + Add warnings if customer doesn't follow the correct procedure for ordering foods and drinks ✓
- + Change dining mode (types of drink or using only organic foods for example) that suite Customer's preference (veggie, gluten-free, on a diet, etc.) ✗
- **Tertiary:**
 - + Add effect to clicking button whenever user clicks on it ✗ (I realized later on there is no way to do this with Java Swing)

Testing: I test my final product/ application based on the output generated (the pop-up window)

- The total US dollars amount (as it stated in the app: "All prices are in USD for your information") on the receipt for a customer's order should be different for different combinations of different foods, drinks and service option) and we should expect that to happen when selecting those options within the app and clicking the **Calculate** button.
- Clicking on the **Reset** button should clear out all the previous entered fields such as Customer Name, Contact Number, any foods & drinks selection, service option selected, the main receipt section and the billing section.
- Clicking on the **Print Receipt** button should pop up your printing window on your machine.
- Clicking the small question mark next to the **Service Fee** line should pop up an informative window about Service Fee.
- Using the application in a wrong way should pop up warning windows (will be explained more deeply in the README file).

In general, the way that I test if my app works is to run it from the IDE (Eclipse), see if a window pops up (the codes compile and the app runs) and be able to click on different buttons and have them performed their functionalities correctly.