

## **Appendix 1 – Interview with my client (Face to face)**

Me: Good morning, Mr. M. I came by because I wanted to ask you a few questions about how you operate the restaurant.

Mr. M: Of course, but may I ask for what purpose?

Me: Yes, one of the subjects I'm taking in my IB course is Computer Science, where each student is required to complete an Internal Assessment. In other words, we look for problems that people may encounter and how we can use computers to try to solve them. I'm here to ask you what kinds of issues you face when running the restaurant and how you presume you can fix them with my coding expertise using Java.

Mr. M: Oh, that's great! As a restaurant manager, I face a number of challenges, whether from the perspective of the employees or the customers. I should be able to keep track of everything! For example, to keep track of the remaining items in stock, we use a barcode reader, so we can only get one value at a time. If you can use a database, you can store and check the remaining quantities of all values at the same time. Can you make that? Make the program comprehend that, for every time the customer orders an item, the remaining quantity reduces accordingly.

Me: Alright, I can do that. What else are you thinking?

Mr. M: Hmm, I would like a personal page, a manager's page, so I can keep track of my employees, the restaurant's profits, and my customers' reviews. I would also like to be able to modify the existing menu any time I wish, whether it be to add a new product, update its contents, or delete one. Am I asking for too much from you?

Me: Not at all! Tell you what, I will attempt to complete those tasks, and I'll meet you back here when I've done so.

Mr. M: Great, if you want to schedule another meeting by that time, take my phone number +2519\_\_\_\_\_

Me: Perfect! I'll get back to you soon and discuss the difficulties I have faced when doing so."

Mr. M: No problem! I really appreciate your assistance. I look forward to hearing from you!

## **Appendix 2 – Discussion about Success Criteria and Program Essentials (Phone)**

Me: Good morning, Mr. M. I have kept in mind the requirements I need to fulfill from our previous encounter, but I was wondering what else the specifics of the program should include in order to be a success. A bucket list I need to check off for its completion.

Mr. M: Good morning, Jonathan, I'm glad you followed up and asked. The major component is that the manager, myself, should be able to keep track of everything. This includes customer sales or revenue, all products in stock (which we must also be able to reorder from our suppliers when running low), and possibly a page to keep track of my employees.

Me: Alright, should I also include a delivery and reservation page?

Mr. M: Actually, that would not be necessary as of now because we do not offer those services. Perhaps in the future, should we implement this sort of change, I will notify you. But as of now, that is not representative of our operations, so perhaps less work for you.

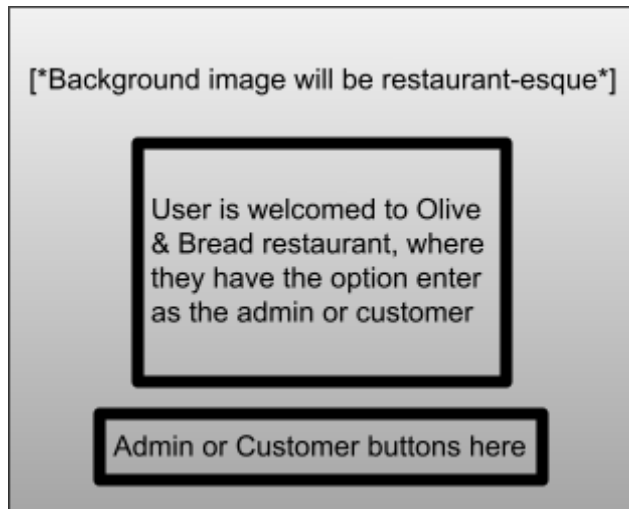
Me: Indeed. Alright, I will prepare a criteria checklist for the program to meet your requirements.

\* After I finalized the success criteria, I discussed it with my client and computer science teacher, and they both approved, giving me confirmation to proceed to the design stage of the program. \*

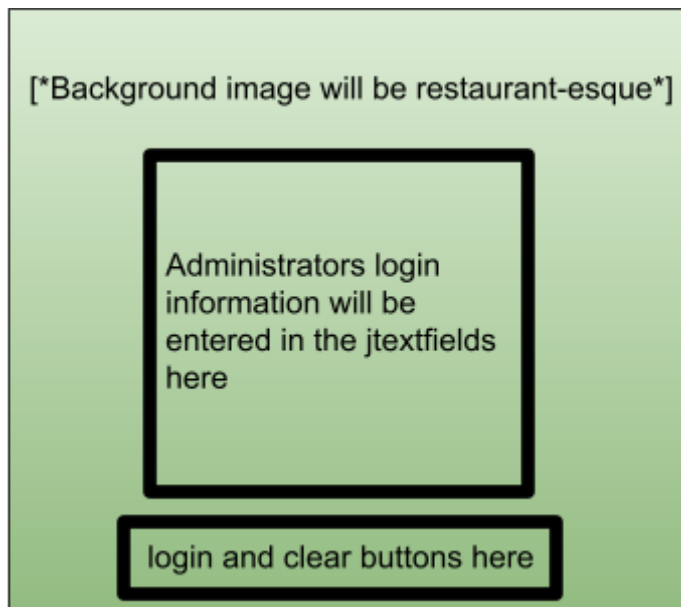
### Appendix 3 – Improvements necessary for the design stage

Below are the designs I came up with for how the program would look, but both my client and computer science teacher knew there were improvements to be made. (Look into Criterion B for the final approved designs)

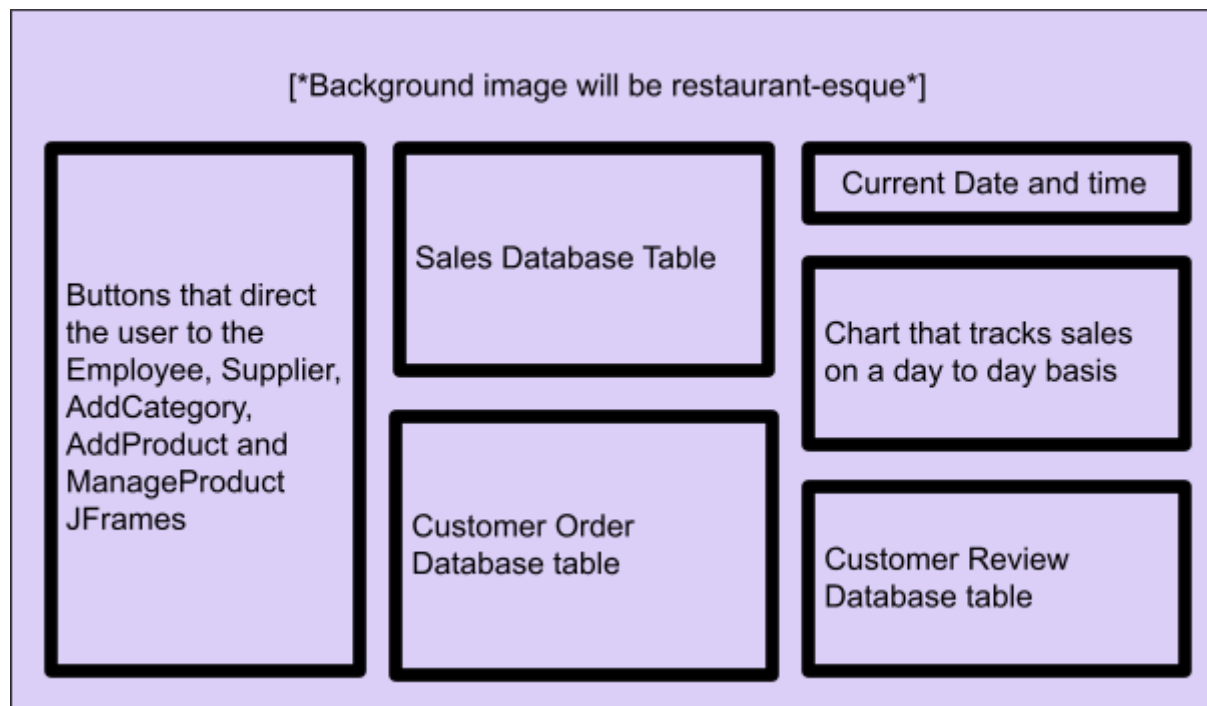
#### – HomePage JFrame



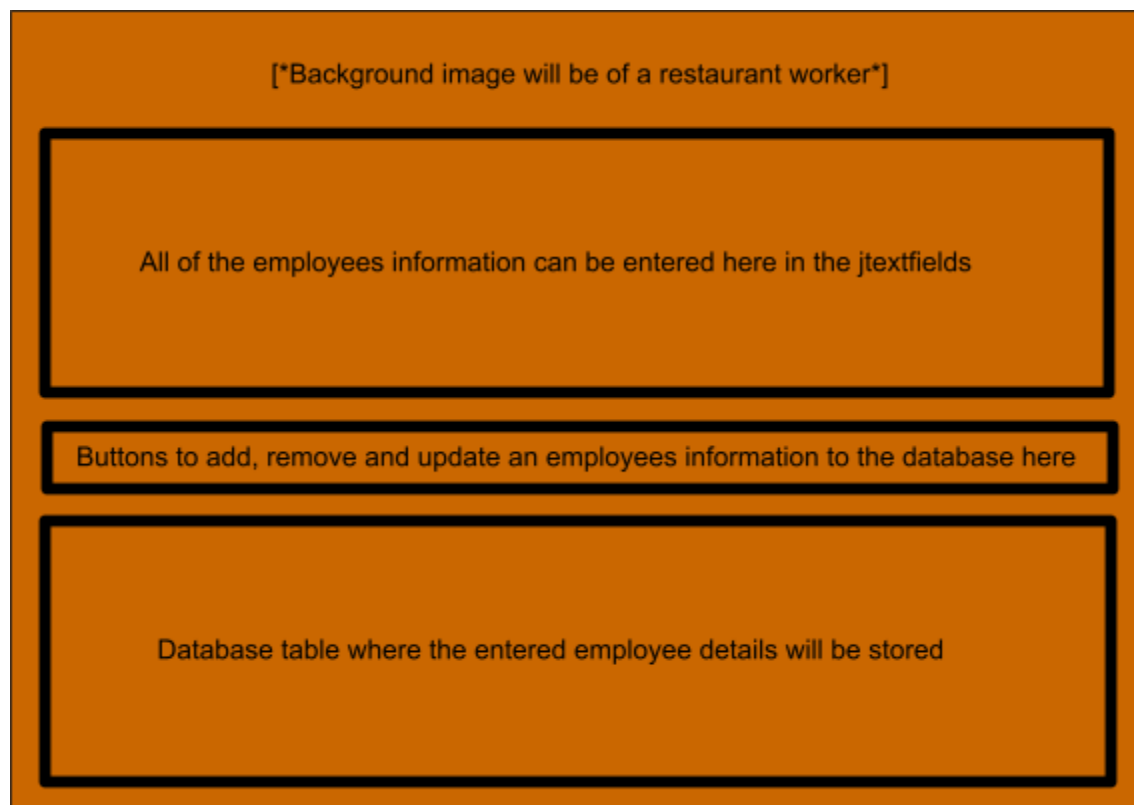
#### – Login JFrame (if the Admin button is clicked for the option above)



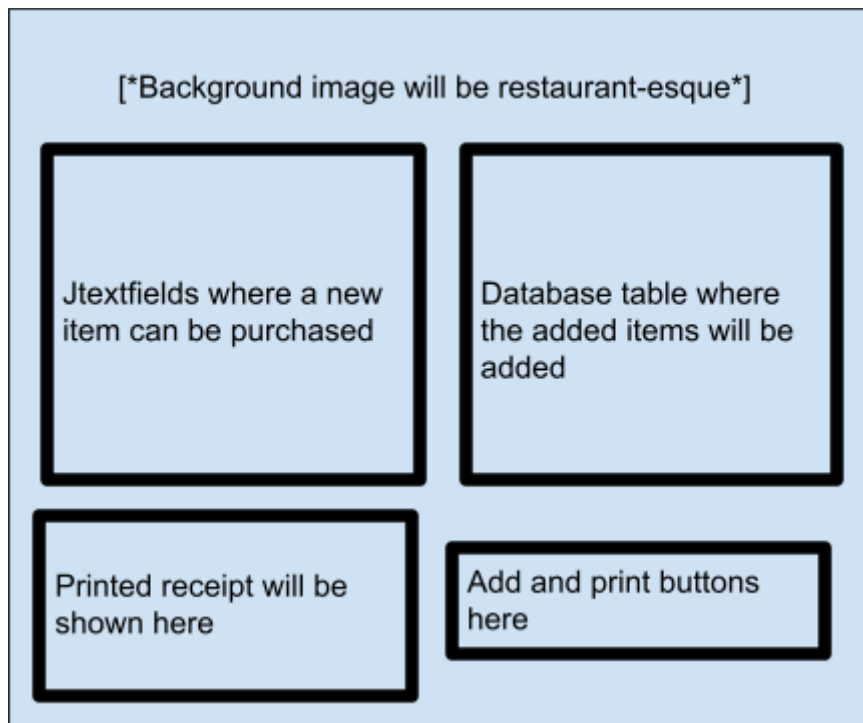
- AdminPage JFrame (if the user logs in successfully)



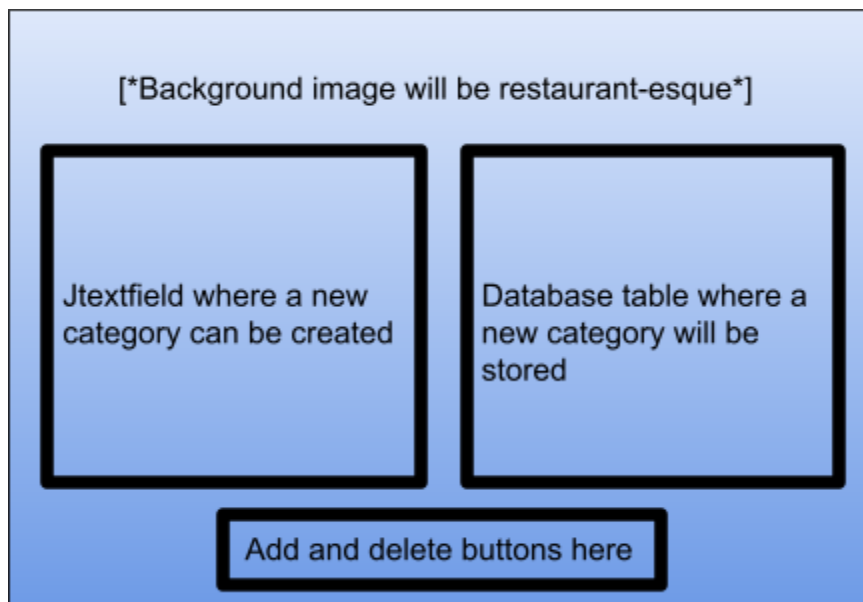
– Employee JFrame



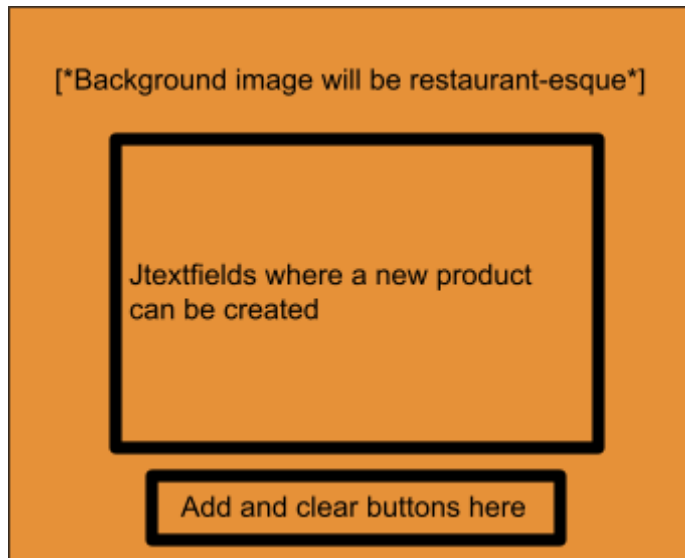
– Supplier JFrame



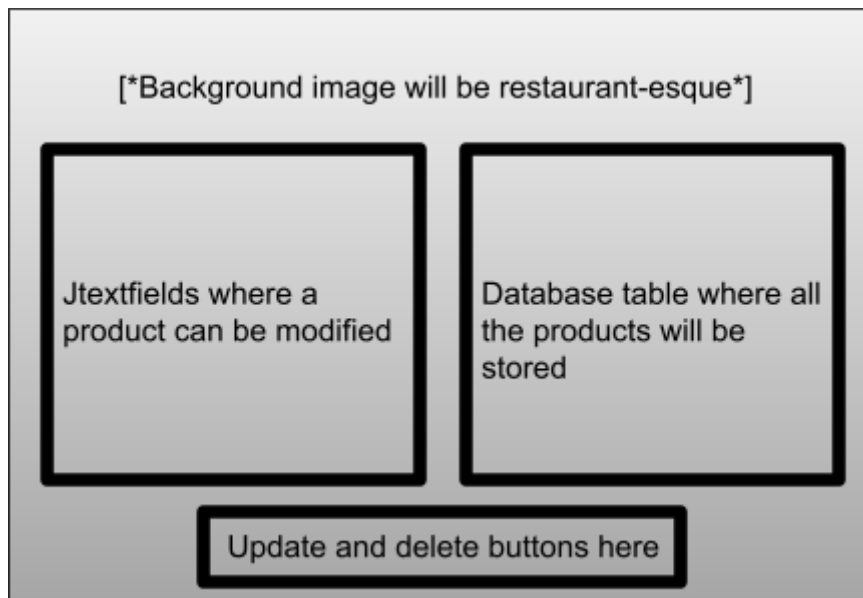
– AddCategory JFrame



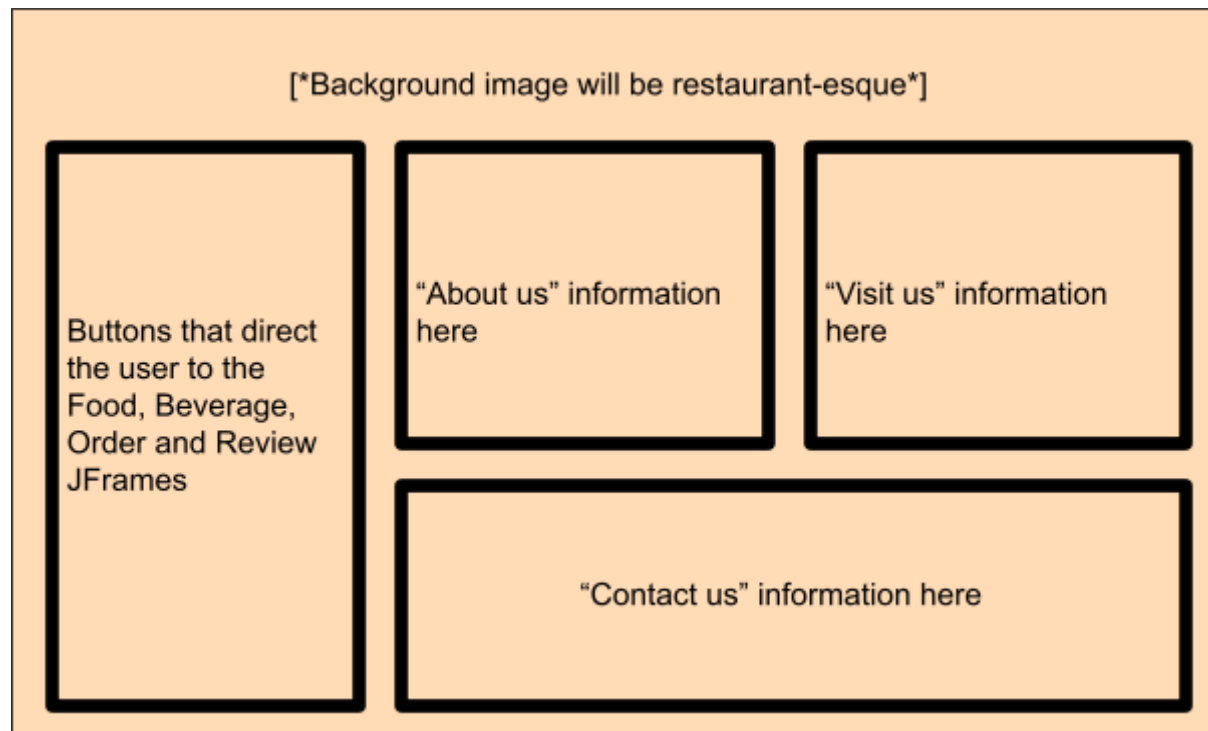
– AddProduct JFrame



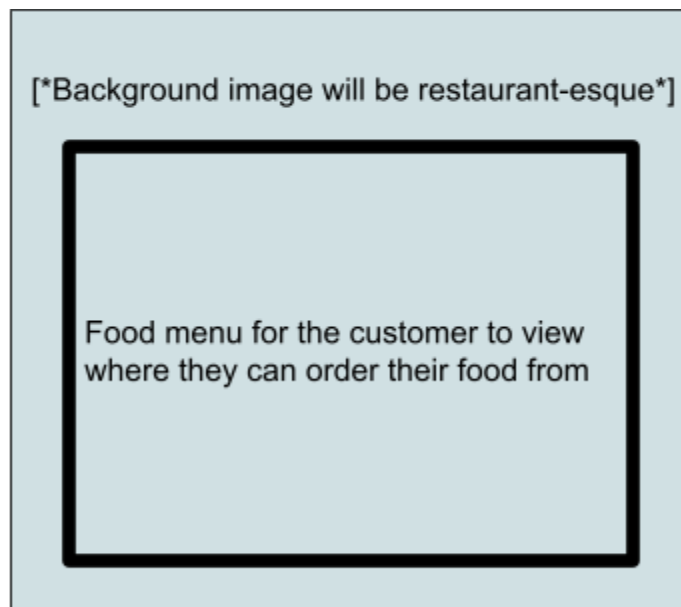
– ManageProduct JFrame



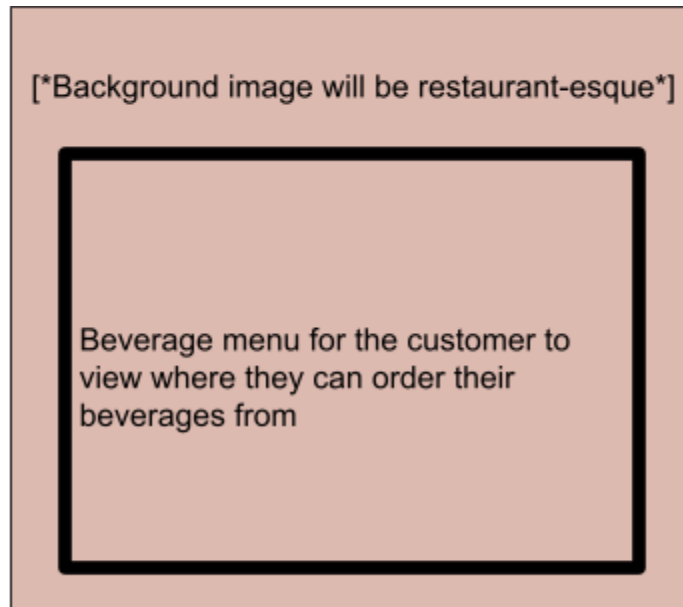
– CustomerPage JFrame (if the Customer button is clicked instead of the Admin button)



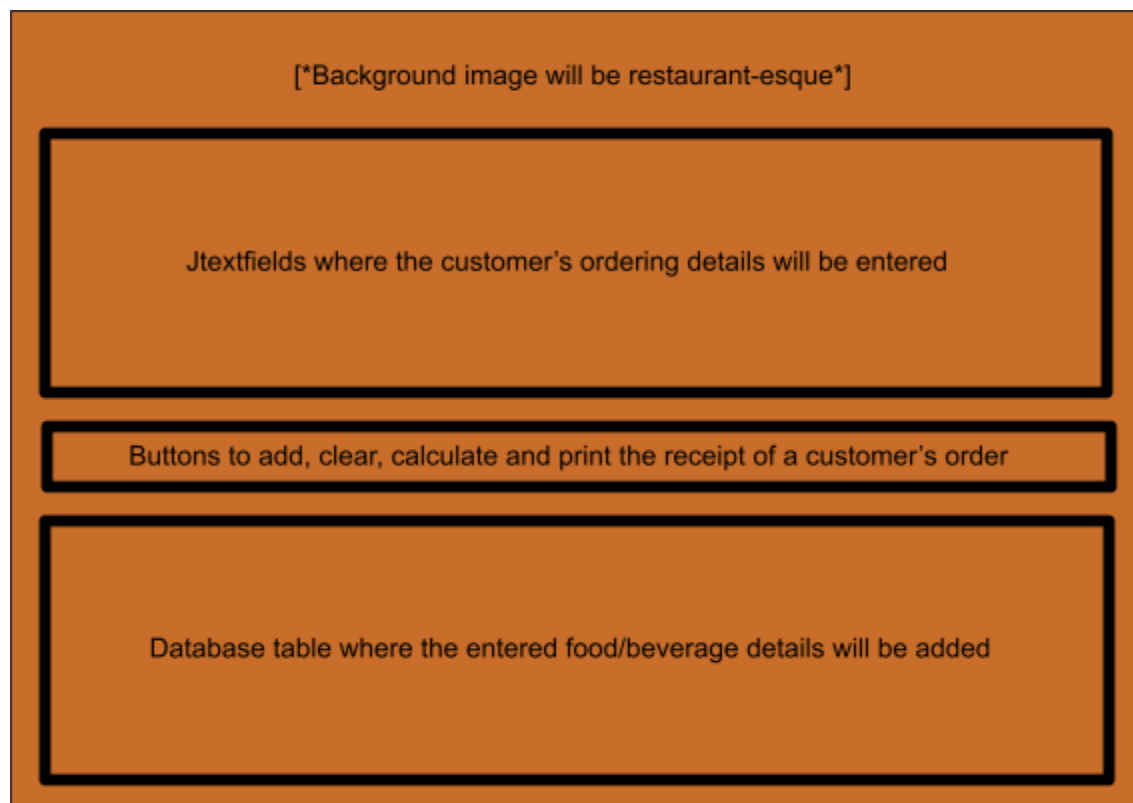
– Food menu JFrame



– Beverage menu JFrame

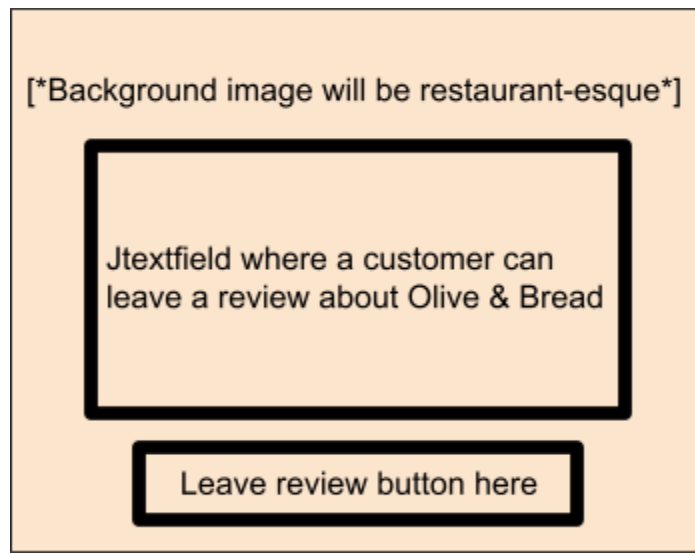


– Order JFrame





– Review JFrame



\* After the completion of my program, the restaurant management system, my client demonstrated that he was satisfied with the results. The improvements we discussed afterwards can be seen in Criterion E. \*