Evaluation

Success Criteria	Was the success criteria met?	Evaluation of the implementation of the success criteria
1) Login GUI Page which separates the customers, admin/ shareholders, manager, waiters, and cooks		As soon as the application opens, the users need to enter their username and password to use the application's functionalities.
2) A layout of Sign-Up screen that changes according to the user being a staff member or customer. a) The addition of salary, joining date, and bonus if the user is a staff member and hiding these fields for the customers.		If the user being focused on is a customer, then the salary, joining date and bonus fields would be hidden. Otherwise, all of these fields would be visible to the user.
3) Validation to make sure the details entered/ edited in the Login screen, User Details Screen, Menu Details Screen, Order Details Screen does not have any human error. a) Making sure none of the input fields are empty		Before saving or updating the details, all fields in the login screen, user details screen, menu details screen and order details would be checked to see if any of the fields are empty. It would then prompt the user to fill the fields if any of the fields are empty.
b) Login Screen: i. Checking if the username and password is in the database.		When the login button is clicked, the program goes through the user database and checks whether the username is present. It then checks the password saved in the database with the typed password and gives entry to the user if they match.
c) User Details Screen: i. Checking if first and last name fields only include alphabets		When the submit button is clicked, it makes sure that first and last name fields are made up of only alphabets.
ii. Checking if the email field includes '@' and '.'		When the submit button is clicked, it makes sure that the email includes a '@' and '.' to make sure that the wrong email isn't typed.

iii. Checking if the address field has a maximum of 100 characters		When the submit button is clicked, it makes sure that the address is limited to 100 characters.
iv. Checking if the username and password fields have unique input		When the submit button is clicked, it makes sure that the inputted username and password aren't already present in the user database.
v. Checking if salary and bonus fields only include numbers		When the submit button is clicked, it makes sure that the salary and bonus fields only include numbers. It also has an added feature where it checks to makes sure that only 1 decimal point has been used.
d) Menu Details Screen: i. Checking if the item name field only includes alphabets		When the submit button is clicked, it makes sure that the item name field is made up of only alphabets.
ii. Checking if item price field only includes numbers		When the submit button is clicked, it makes sure that the item price field is made up of only alphabets. It also has an added feature where it checks to make sure that only 1 decimal points has been used.
iii. Checking if the ingredients listbox is empty		When the submit button is clicked, it makes sure that the ingredients listbox includes at least 1 ingredient.
iv. Adding ingredients: 1. Checking if no ingredient has been chosen.		When the add ingredient button is clicked, it checks whether the ingredient field is empty.
2. Checking if ingredient quantity is empty		When the add ingredient button is clicked, it checks whether the ingredient quantity field is empty. It also has an added feature where it checks to make sure that a whole number is being used.
e) Order Details Screen: i. Checking if all the item quantity entry boxes only include numbers		When the submit button is clicked, it checks whether all the item quantity entry boxes only have whole numbers.
4) A layout of Functional screen that changes		The login screen allows the application to know which user is using the application and thus,

according to the user being a staff member or customer. a) Changing the functions that the users can perform according to them being an admin, manager, waiter, cook or customer.		allows it to show the functionality that user could use.
5) A layout of Menu screen that changes according to the number of menu items. a) Adding, updating, deleting menu items would change the Menu screen.		The number of items could change if the admin adds, updates, or deletes a menu item. Thus, the application would automatically check and update the menu screen if any changes are done. It also has an added feature where it allows 24 items to be shown is each column.
6) A layout of Order screen that changes as menu items are ordered. a) Adding, updating, deleting menu items would change the Order screen.		As the user orders more items, it would show the order on the order screen. However, the update and delete order functions haven't been implemented into this project as it didn't seem viable in a restaurant environment.
7) A layout of Bill screen that changes as more orders are placed.		As the user orders more items, it would add the ordered item to the bill. There is also a generate button which would save the bill as pdf and deletes all the items in the bill.

Strengths:

During the interview, my client acknowledged many strengths in my project. The first strength that the client identified straightaway was the attractive GUI of the application. He specifically liked the use of the Subway logo colors for the background. The GUI also allowed my client to easily use the application without any help. Another feature that my client liked was the login page which allowed different kinds of users to have different access levels. Lastly, he believed that the billing system was very good as it allowed him to save time on manually calculating the bill for each customer.

Weaknesses:

During the interview, my client observed few weaknesses in my project. The biggest issue that he told me was the actual size of the application which took up a lot of memory on his laptop to store. He also told that the application used a lot of RAM to run. Moreover, he pointed that the customer was unable to update or delete his order as it was stated in the success criteria. This couldn't be implemented due

to the added complexity of this success criteria. If the customers were allowed to update or delete orders, they would be able to do so even after the food was served. Thus, additional features would be needed to be added such as allowing the cook to update the status of their order.

Future Improvements:

My client wanted to add and update my features of the application. Firstly, he wanted me to reduce the amount of memory that my application took up. This would reduce the space required by the users to store and run the application. This could be possible if the code becomes more efficient.

1) Tables:
    a. Admin could add and remove the number of tables that they have in the restaurant. Though, this isn't going to be used very often, it would help when more tables have been added, especially during business expansion.
    b. Admin could move the tables around according to the layout of the restaurant. This would allow the customers to find the table they are sitting at more easily. It would also increase the visual customer experience of the application.
    c. The number of customers that are sitting at a table should be saved by the application. This would allow the application to disable the table where the seats are full and enable it when the customers leave.
2) Delivery System:
    a. A delivery system could be added which would allow the customers to order food using the application.
    b. Moreover, there could an order tracking system which would allow the customer to know the status of their order.
3) Reservation:
    a. The customers should be able to reserve their seats by using the application which would allow the business to know the minimum number of customers that would be visiting the restaurant and also reduce the customer waiting time to get a seat.
4) Website:
    a. The application could be integrated into a website which would allow the customers to directly access the application without having the hassle of downloading the application.
    b. The application size could be made dynamic which would allow customers to access the application or website on various devices like phones and laptops.