

CFS2160 – Software Design and Development

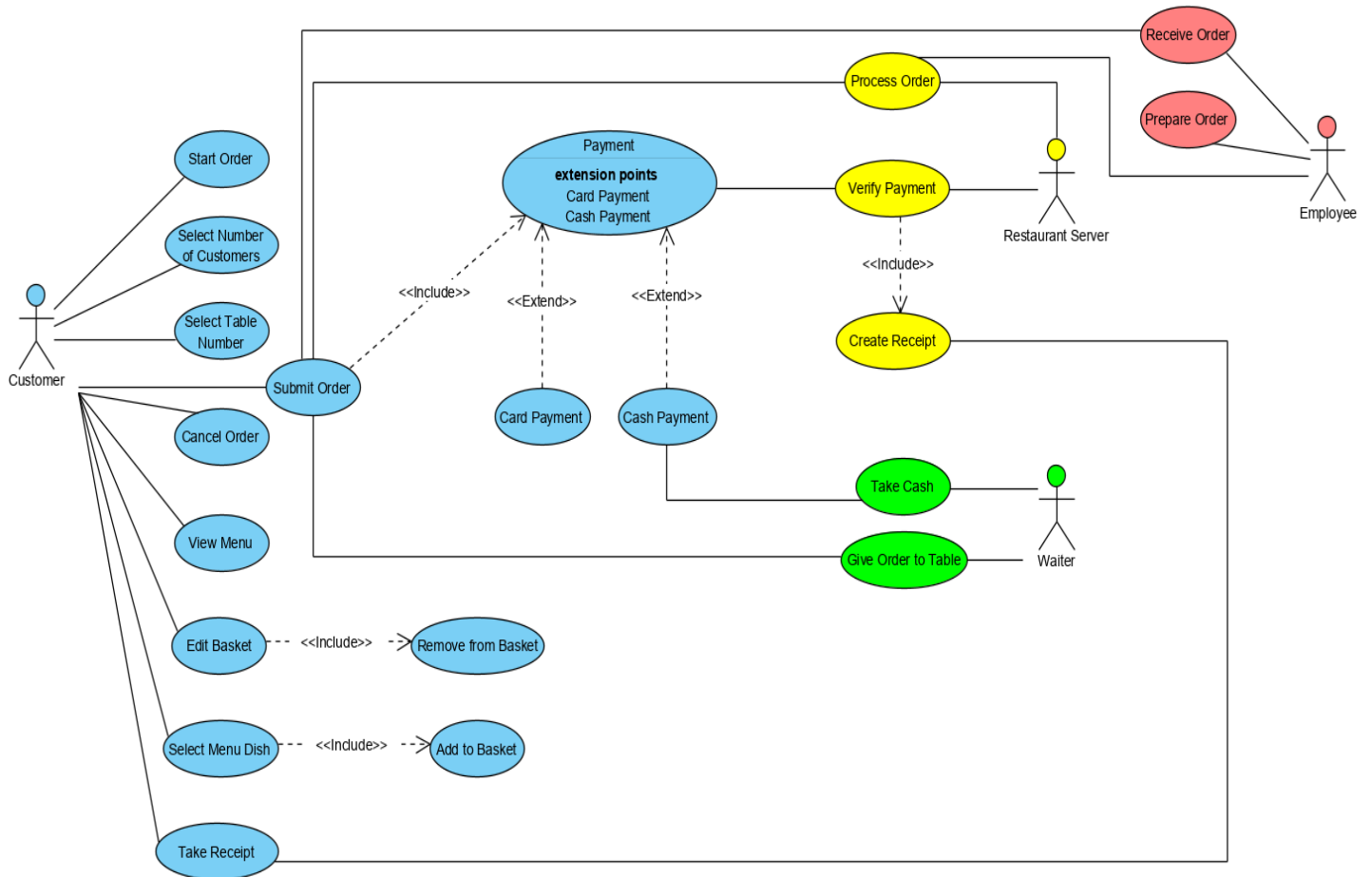
Term 2 Assignment 2

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Restaurant Menu Selector

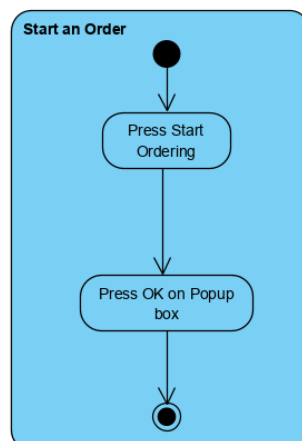
Use-Case Diagram



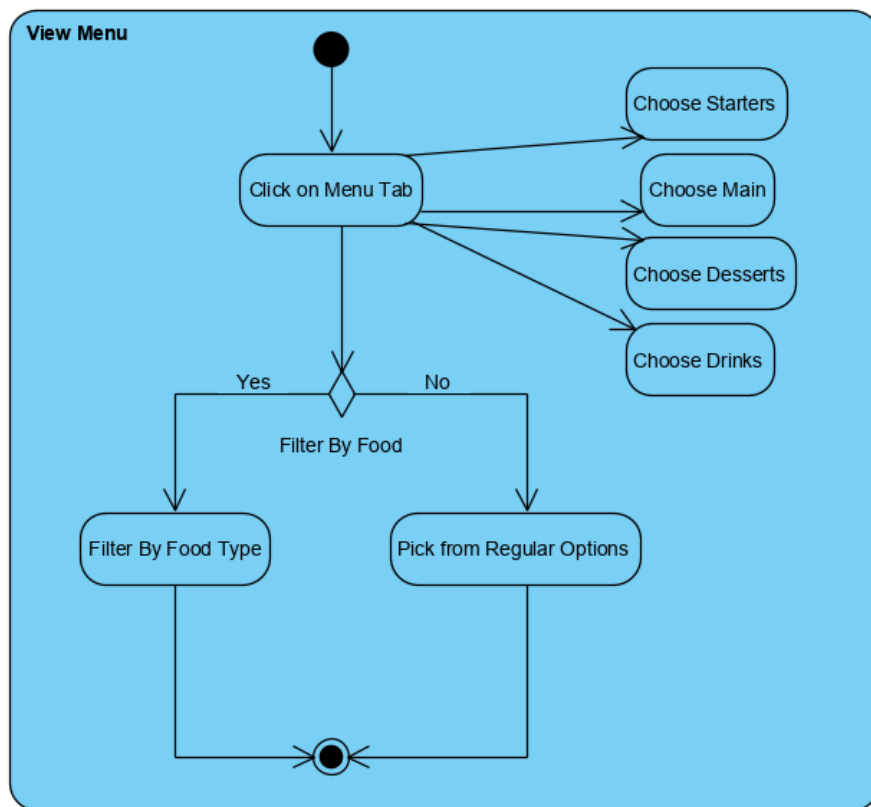
Activity Diagrams

Some Activity Diagrams to show the process below:

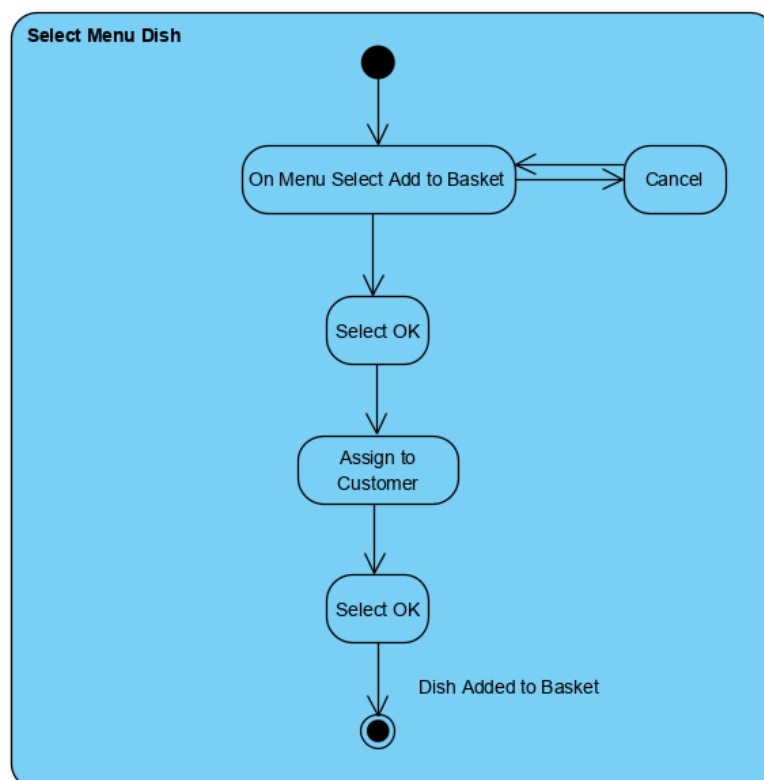
Start an Order



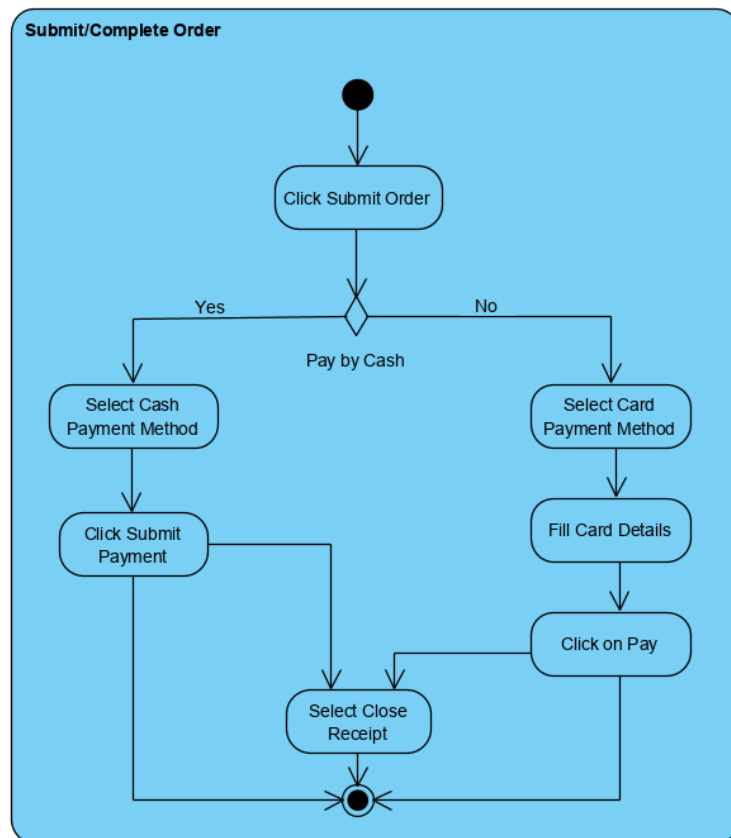
View Menu



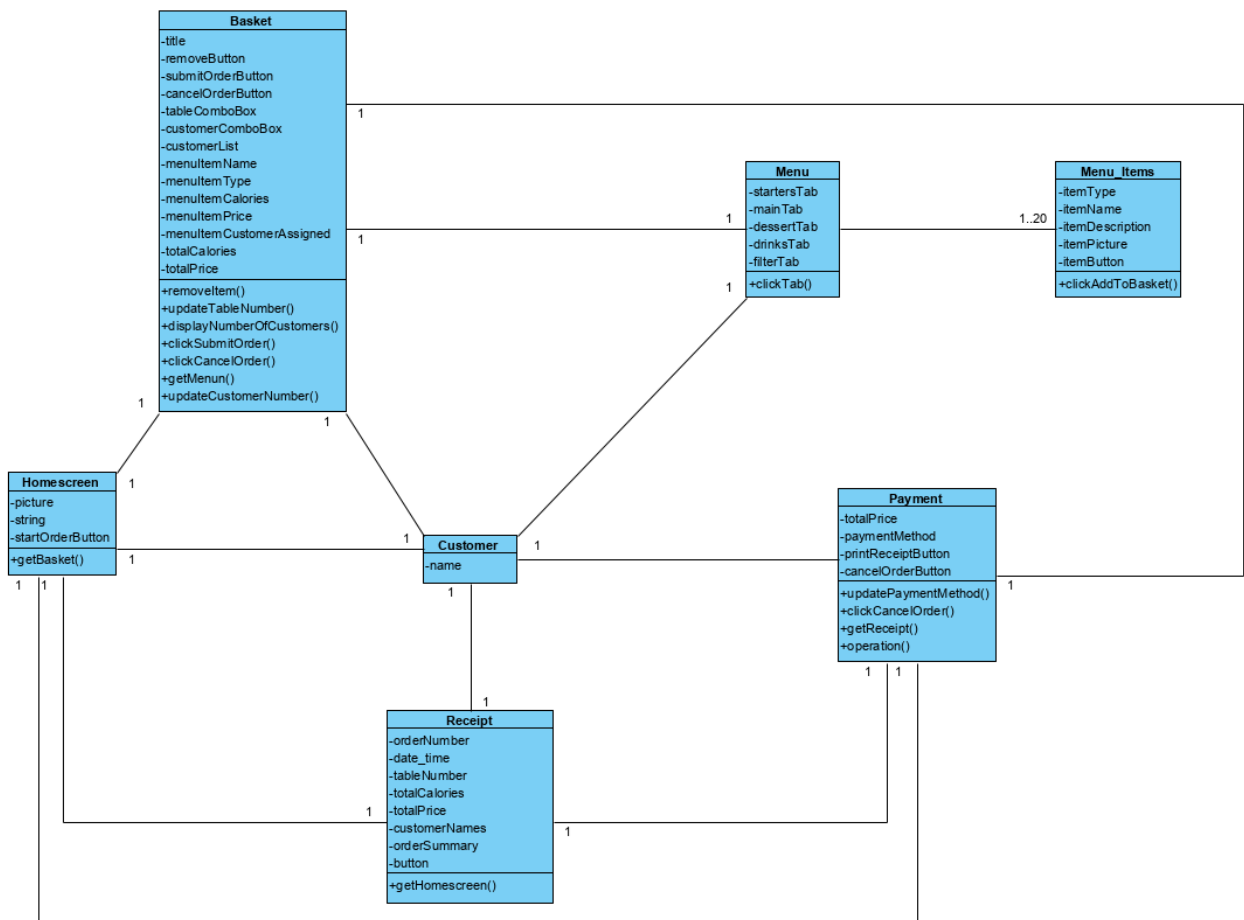
Selecting and adding to basket



Submit Order & Pay



Class Diagram



Design Explanation

The aim for my restaurant menu selector design was to keep it simplistic as possible for customers. Due to the variety of customers we can expect to receive ranging from all ages, keeping the interface user friendly was my primary goal.

First the welcome screen is used to be inviting for customers and contains the start order button which is clearly visible. Once pressed we have the basket which has a simple colour scheme, the buttons can be identified easily. There are drop downs for to select the table and number of customers and a list of customers will appear in the box below. Allowing the customer names to be edited will make it easy to identify who ordered what in the basket. The ability to remove products from the basket and cancel the order are essential for their purposes.


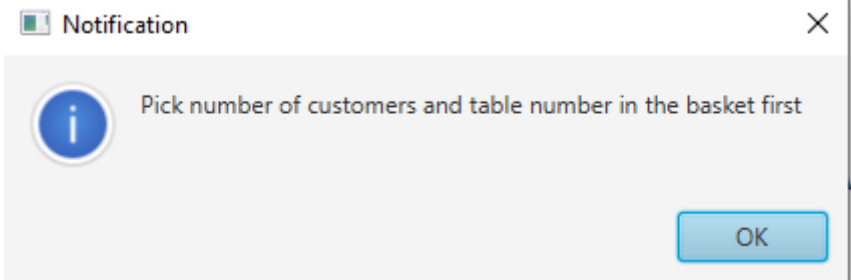
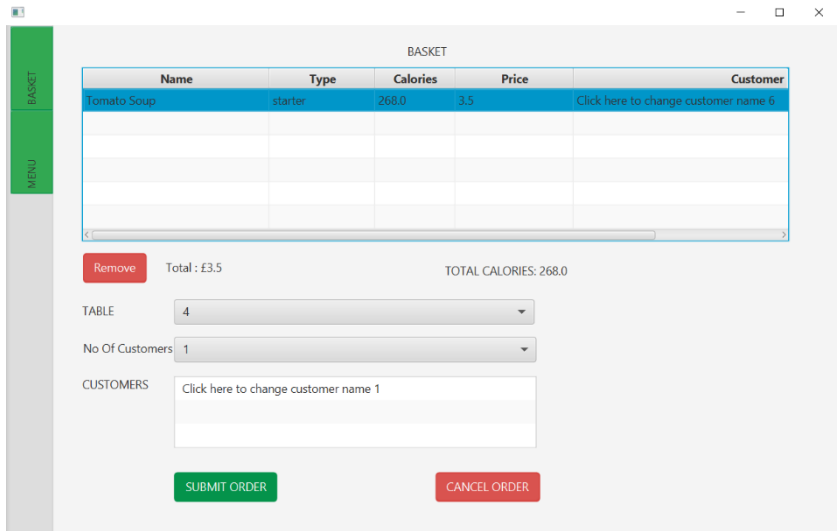
The main section which is the menu is meant to look attractive for customers as well as professional. I believe the colour scheme, pictures and description all fit in to give the perfect feel. With the tabs above, the customer will be able to filter the different food types. Also, here they can add products to the basket and assign them to customers. I believe it was necessary for me to add a confirmation pop up in case the user clicked on add to basket by mistake.

On the payment scene they can view the total and select payment method and fill out card details if necessary. Here I have added various card types to facilitate for the different ones. When payment has been completed, they can view the receipt summary total calories. Having a summary of the order is not only important to view the prices but I think being able to view the total calories can help slightly.

To summarise, the program is very simple to use and has the flow where the customer can follow through easily.

Test Plan

Here is the process of how the program runs as well as areas that have bugs:

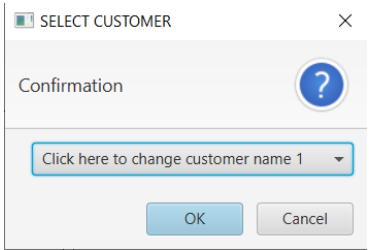
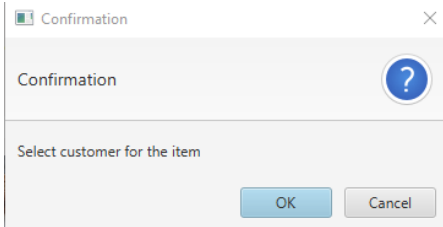
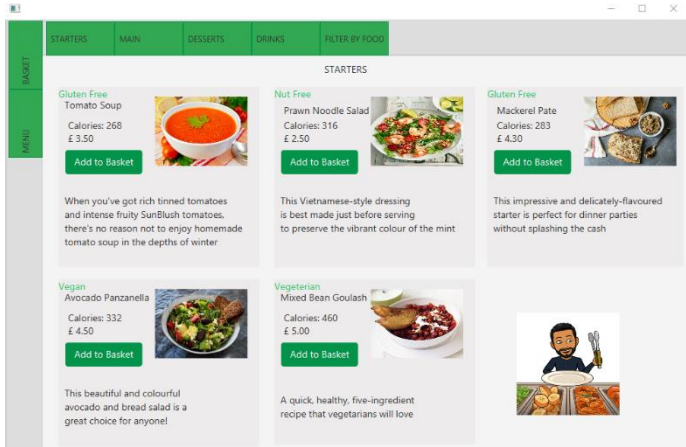
Description/Test	Screenshots
<p>Button for the customer to click in order to begin a new order.</p> <p>This scene has no issues, I have tested the button several times and it works as it should.</p> <p>Also tested if it works after cancelling an order as well after an order has been completed.</p> <p>PASS</p>	
<p>Popup will appear informing the customer to choose the number of customers and table number first.</p> <p>No issues just need to click OK or close the window.</p> <p>PASS</p>	
<p>Basket able to select the table number and customer</p> <p>No issues when selecting table and customer. There was an issue before where they overlapped however it is now fixed and it will replace the customer list.</p> <p>There is however an issue when the customer selecting and basket both meet. If you assign a product to for example customer 5, and then change the number of customers to 1 it will not update on the table. Resulting the user must remove from basket manually.</p> <p>I have tested this by using various combinations, trying it after cancelling an order as well as completing one.</p> <p>FAIL</p>	

Now we can add products to the basket once the above has been done. Clicking on add to basket will have a confirmation popup and then the ability to assign it to a customer.

Only one issue on the customer assigning popup where if you click cancel it will still add to the basket and assign it to the customer which was chosen.

Apart from this I tested all the buttons whether they work as well as the different food options above/filtering.

FAIL



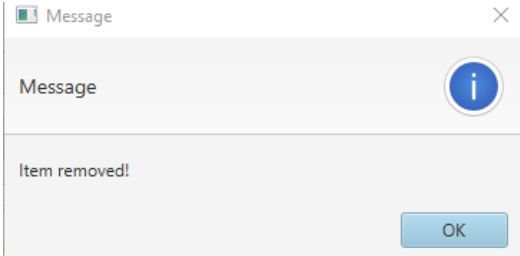
After adding/assigning products back to the basket we can remove products by clicking on them in the basket then removing.

One major issue with the price which occurs during removing products from the basket - the total price isn't rounded to 2 decimal places as shown. I would need to find a way to round it up.

Also, an improvement would have been to have the ability to remove multiple products at once.

Tested thoroughly by adding products from different courses and removing them etc.

FAIL



BASKET				
Name	Type	Calories	Price	Customer
Tomato Soup	starter	268.0	3.5	Click here to change customer name 1
Mackerel Pate	starter	283.0	4.3	Click here to change customer name 1
Total : £7.800000000000001				
TOTAL CALORIES : 551.0				

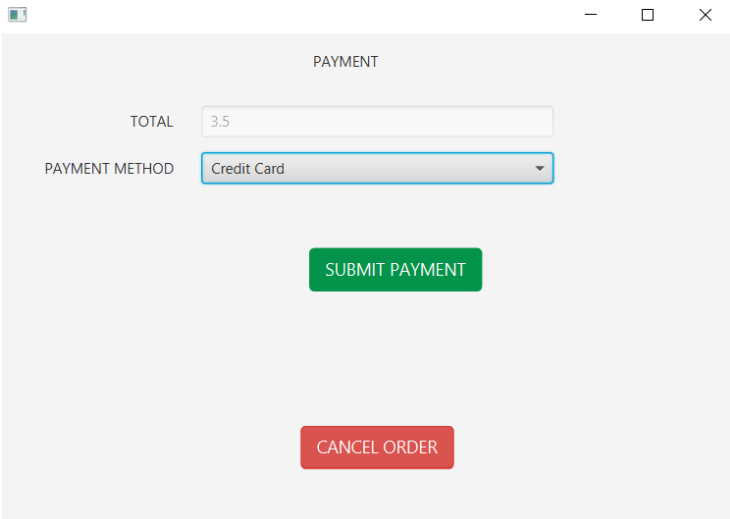
Next is making payment which first allows you to select a payment method cash or card. If selecting cash, you can select submit payment straightaway and receive the receipt. If you select card it will pop up a form to fill in the card details.

A 16-digit card number is required, and an error will pop up if entered incorrectly. Once filled out click on Pay to complete the order.

During the payment stage there are no issues and it will work fine. However, I could have improved it in many ways. Firstly, you can select a card which has already expired, and it'll work. So, if I added the feature to allow only cards from today and forward that would be better.

Another improvement would be to add additional confirmation popups as this is a very important stage of the order.

PASS



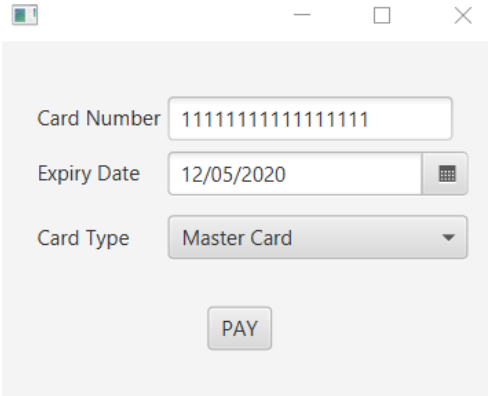
PAYMENT

TOTAL 3.5

PAYMENT METHOD Credit Card

SUBMIT PAYMENT

CANCEL ORDER



Card Number 1111111111111111

Expiry Date 12/05/2020

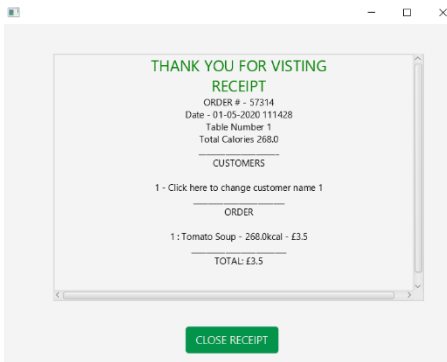
Card Type Master Card

PAY

Once payment has been completed you can then proceed to the receipt.

The receipt I've tested to see if it provides the correct results as well as whether the button works. These all work fine, and I have not noticed any bugs on it.

PASS



THANK YOU FOR VISITING

RECEIPT

ORDER # - 57314

Date - 01-05-2020 11:428

Table Number 1

Total Calories 268.0

CUSTOMERS

1 - Click here to change customer name 1

ORDER

1 x Tomato Soup - 268.0kcal - £3.5

TOTAL: £3.5

CLOSE RECEIPT

References:

CSS File inspired from -

<https://github.com/damdad/LeChat/blob/cb0395ad34893b1d519cba44c903c038800bfc0f/src/main/resources/css/style.css>

Food images, descriptions and calorific values - <https://www.bbcgoodfood.com/>

Bitmoji images made from - <https://www.bitmoji.com/>