

Documentation Paper

Software Design: CSC 414

11/3/2020

1.0 Scope

- 1.1 Café ordering system v1.0 interpreted on a windows 10 operating system using python 3.0.
- 1.2 The purpose of this program is to offer a point of sales system for a café. It will take the order given to it by the employee or customer and keep track of what was ordered and the entire order's total cost. The program's base functionality has already been implemented, and I will be implementing new features such as printing a ticket and sending the order to the cooks.
- 1.3 This document is going to cover the Requirements, Design, and Testing of my software.

2.0 Referenced documents

- 1. <https://www.python.org/>

3.0 Requirements

- 1 To be able to let a user or worker enter a choice of what is being ordered.
 - 1.0 If a burger or chicken sandwich is chosen, ask how the customer would like it dressed
- 2 Take in the customer's payment and either prompt for more money if there is a remaining balance or return change if the payment exceeds the amount.
 - 2.0 Print the receipt once the amount due has been paid
 - 2.1 Print the order ticket to be sent to the kitchen.
- 3 Clear the screen after a choice is entered as not to stack output and make it look cleaner.
- 4 Keep the program running until a value is entered

4.0 Design

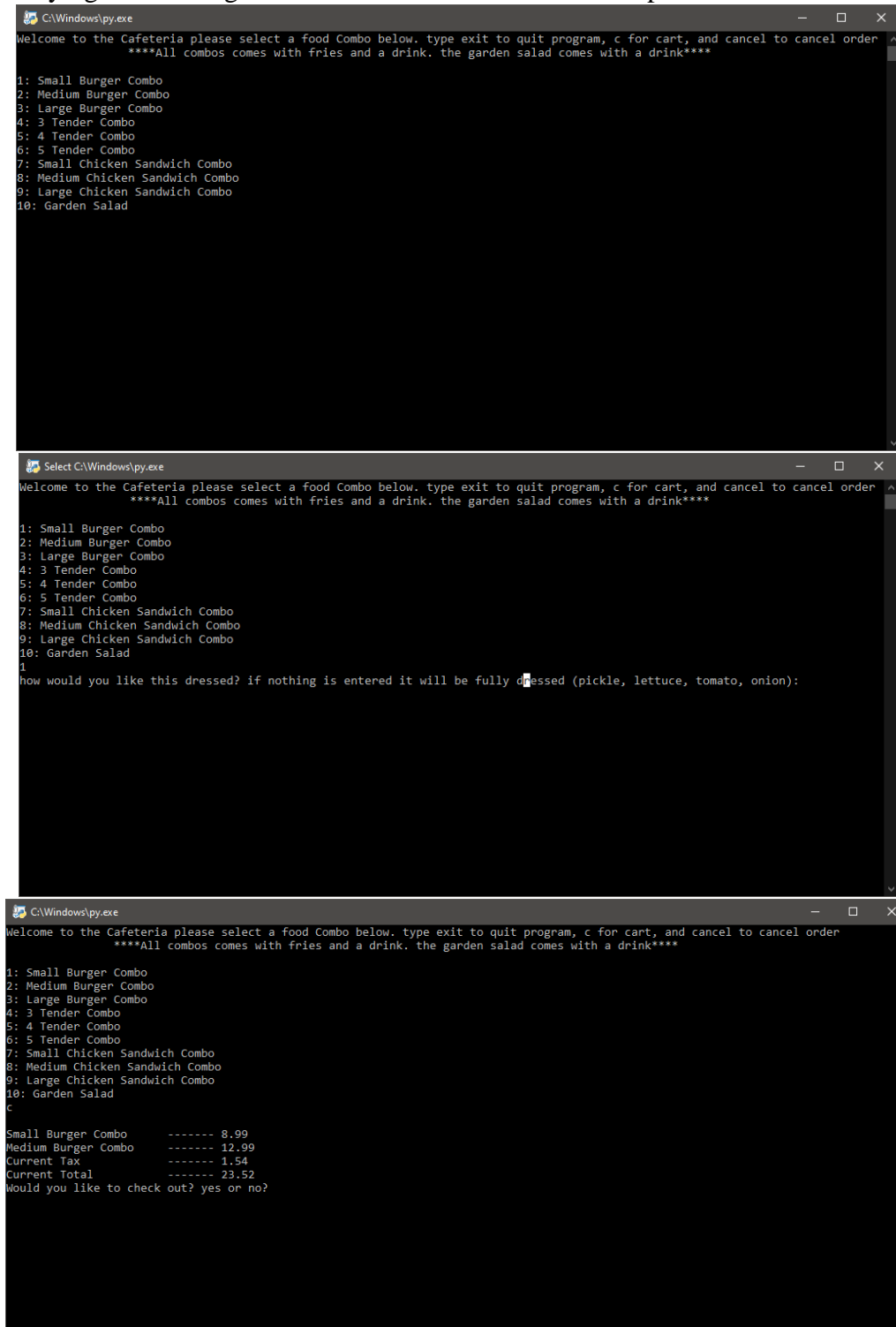
- 1 create a function to be able to repeat the ordering menu continuously until the program is exited manually.
- 2 Take in user input and validate the input is an acceptable choice and call the appropriate functions.
- 3 Create the dictionary that will contain a key-value base on the selection. And return a dictionary of what the order is, price, ticket information, and if it's a sandwich, it's dressing.
- 4 Create a function to print what the customer has entered so far, and the current tax and total. Ask if the user wishes to complete the transaction if they want to continue. If the user wishes to finish, call the function to process the transaction.
- 5 Create a function that processes the receipt and begin the payment. Open a file to write to for the receipt and populate it with a standard message, transaction number, what was ordered, subtotal, tax, and total.
- 6 Create a function that once the payment has been processed create a function to send the ticket to the kitchen for the back of house workers can prepare everything

5.0 Test Plan

- 1 The tester shall test this by operating as if this were live in their place of business.
- 2 Try to use different input types to make sure only the appropriate choices are accepted, and invalid entries are rejected.
- 3 Make sure that the payment calculations are accurate and work as intended. Try different amounts to see if anything breaks it.
 - 3.0 Check the ticket and the receipt, make sure it looks appropriate, and convey the right information needed.
- 4 Check to see if the modification for sandwiches works as intended.
- 5 Does the screen clear?
- 6 Does the program quit unexpectedly?

Appendix

Test Results images are below. First group is the positive path. The second group will be trying to enter negative entries to make sure that the input validation works.



```
C:\Windows\py.exe
Welcome to the Cafeteria please select a food Combo below. type exit to quit program, c for cart, and cancel to cancel order
****All combos comes with fries and a drink. the garden salad comes with a drink****

1: Small Burger Combo
2: Medium Burger Combo
3: Large Burger Combo
4: 3 Tender Combo
5: 4 Tender Combo
6: 5 Tender Combo
7: Small Chicken Sandwich Combo
8: Medium Chicken Sandwich Combo
9: Large Chicken Sandwich Combo
10: Garden Salad

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7: Small Chicken Sandwich Combo
8: Medium Chicken Sandwich Combo
9: Large Chicken Sandwich Combo
10: Garden Salad
1
how would you like this dressed? if nothing is entered it will be fully dressed (pickle, lettuce, tomato, onion):

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4: 3 Tender Combo
5: 4 Tender Combo
6: 5 Tender Combo
7: Small Chicken Sandwich Combo
8: Medium Chicken Sandwich Combo
9: Large Chicken Sandwich Combo
10: Garden Salad
c

Small Burger Combo      -----  8.99
Medium Burger Combo     ----- 12.99
Current Tax              -----  1.54
Current Total            ----- 23.52
Would you like to check out? yes or no?
```

```
C:\Windows\py.exe
Welcome to the Cafeteria please select a food Combo below. type exit to quit program, c for cart, and cancel to cancel order
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4: 3 Tender Combo
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6: 5 Tender Combo
7: Small Chicken Sandwich Combo
8: Medium Chicken Sandwich Combo
9: Large Chicken Sandwich Combo
10: Garden Salad
c

Small Burger Combo      ----- 8.99
Medium Burger Combo     ----- 12.99
Current Tax              ----- 1.54
Current Total            ----- 23.52
Would you like to check out? yes or no?
no
```

```
C:\Windows\py.exe
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6: 5 Tender Combo
7: Small Chicken Sandwich Combo
8: Medium Chicken Sandwich Combo
9: Large Chicken Sandwich Combo
10: Garden Salad
c

Small Burger Combo      ----- 8.99
Medium Burger Combo     ----- 12.99
Current Tax              ----- 1.54
Current Total            ----- 23.52
Would you like to check out? yes or no?
yes
```

```
C:\Windows\py.exe
Welcome to the Cafeteria please select a food Combo below. type exit to quit program, c for cart, and cancel to cancel order
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5: 4 Tender Combo
6: 5 Tender Combo
7: Small Chicken Sandwich Combo
8: Medium Chicken Sandwich Combo
9: Large Chicken Sandwich Combo
10: Garden Salad
c

Small Burger Combo      ----- 8.99
Medium Burger Combo     ----- 12.99
Current Tax              ----- 1.54
Current Total            ----- 23.52
Would you like to check out? yes or no?
yes
Your total is: 23.52
please enter payment amount:
```

```
C:\Windows\py.exe
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6: 5 Tender Combo
7: Small Chicken Sandwich Combo
8: Medium Chicken Sandwich Combo
9: Large Chicken Sandwich Combo
10: Garden Salad
2
how would you like this dressed? if nothing is entered it will be fully dressed (pickle, lettuce, tomato, onion): p,t,o
p,t,o
```

```
C:\Windows\py.exe
Welcome to the Cafeteria please select a food Combo below. type exit to quit program, c for cart, and cancel to cancel order
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7: Small Chicken Sandwich Combo
8: Medium Chicken Sandwich Combo
9: Large Chicken Sandwich Combo
10: Garden Salad
```

```
receipt.txt - Notepad
File Edit Format View Help
Thank you!
Your order number is: 1
Transaction number      8809

Small Burger Combo      8.99
Medium Burger Combo     12.99
-----
Subtotal                21.98
Tax                     1.54
Total                   23.52
-----
Payment                 0.52
```

```
ticket.txt - Notepad
File Edit Format View Help
2x burger
1x small drink
1x small fry
1x medium drink
1x medium fry
!!!!Sandwich mod!!!!
1 Small Burger Combo dress: no_Mod
2 Medium Burger Combo dress: no lettuce
```

Input validation for menu selection

```
C:\Windows\py.exe
Welcome to the Cafeteria please select a food Combo below. type exit to quit program, c for cart, and cancel to cancel o
rder
      ****All combos comes with fries and a drink. the garden salad comes with a drink****
1: Small Burger Combo
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5: 4 Tender Combo
6: 5 Tender Combo
7: Small Chicken Sandwich Combo
8: Medium Chicken Sandwich Combo
9: Large Chicken Sandwich Combo
10: Garden Salad
sdfasdfsdfasdf
option is invalid please choose a different option

C:\Windows\py.exe
Welcome to the Cafeteria please select a food Combo below. type exit to quit program, c for cart, and cancel to cancel o
rder
      ****All combos comes with fries and a drink. the garden salad comes with a drink****
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5: 4 Tender Combo
6: 5 Tender Combo
7: Small Chicken Sandwich Combo
8: Medium Chicken Sandwich Combo
9: Large Chicken Sandwich Combo
10: Garden Salad
2345234523452345234523452345234
option is invalid please choose a different option

C:\Windows\py.exe
Welcome to the Cafeteria please select a food Combo below. type exit to quit program, c for cart, and cancel to cancel o
rder
      ****All combos comes with fries and a drink. the garden salad comes with a drink****
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4: 3 Tender Combo
5: 4 Tender Combo
6: 5 Tender Combo
7: Small Chicken Sandwich Combo
8: Medium Chicken Sandwich Combo
9: Large Chicken Sandwich Combo
10: Garden Salad
r
Your total is: 9.62
please enter payment amount: 1231231231231
Input Error please begin transaction again.
```