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20220798

PRP SUMMATIVE PROJECT

Code Screenshots:

Full Overview:

```
class tableDesign:
    def __init__(self, tableName = "DefaultName", tableAssignment = "None", tableOrders = {}, tableCustomers = 0, preparedBill = False, printedBill = ""):
        self.tableName = tableName
        self.tableAssignment = tableAssignment
        self.tableOustomers = tableCustomers
        self.tableOrders = tableOrders
        self.printedBill = preparedBill
        self.printedBill = printedBill
tableDesign()
```

Into Each Function:

```
def userLogin(): #prompting the user for login details
    global username
    username = input("\nPlease enter username: ")
    password = input("Please enter password: ")
    print()
    for names in loginList:
        if names == username: #login validation
            if password == loginList[names]:
                print(f"\nWelcome {username}!")
                landingPage() #sending to the main landing page after login
                break
            else:
                print("Invalid Password")
                break
    else:
        print("Invalid Username")
```

```
def landingPage(): #Main landing page that shows all menu options and sends the user to correct function according to selection made
    userInput = int(input("\nWhat would you like to do? \n\
                       \n3. Add to Order\
                      \n4. Prepare Bill\
\n5. Complete Sale\
                      \n0. Log out \
    print()
    if userInput == 1:
        availableTables()
    elif userInput == 2:
       changeCustomers()
    elif userInput == 3:
       addToOrder()
    elif userInput == 4:
       prepareBill()
    elif userInput == 5:
       completeSale()
    elif userInput == 6:
    elif userInput == 0:
        print("\nLogging Out!!!")
        print("Invalid input!")
        landingPage()
```

```
vef addToOrder(): #used for adding items on the menu to the tables orders, which is also an attribute to the table object
     print(f"\nThese are the tables available to {username}")
     for i in tableList:
         if i.tableAssignment == username:
             print(f"{i.tableName.strip('Table ')}. {i.tableName}")
     userInput = int(input("Please select the table you would like to add an order to, or 0 to exit: "))
     while True:
         if tableList[userInput - 1].tableAssignment == username :
             print("\nSelect an item: ")
                print(f"{counter + 1}. {i[0]} at R{i[1]}")
             orderSelect = int(input("What item would you like to order: "))
             \label{eq:quantity} \textbf{quantity} = \text{int(input(f"How many } \{ \textbf{stockList[orderSelect - 1][0]} \} / s \text{ would you like to add to the order: "))}
             table List[userInput - 1]. table Orders[stockList[orderSelect - 1][0]] = quantity
             print(f"\n{quantity} {stockList[orderSelect - 1][0]}/s successfully added to {tableList[userInput - 1].tableName}")
             another = input("Would you like to add another order? (y/n): ")
             if another == "n":
                 print()
         elif (userInput == 0):
             print("\nCancelling and Returning!")
             print("Invalid selection")
             userInput = int(input("Please select the table you would like to add an order to, 0 to exit: "))
     landingPage()
```

```
def probability: Mored for preparing the bill to print and creating a variable ready to send to a file later on probability of the stable available to (username)")

For in tableList:

if i.tabloAssignment == username:

print("(t.tableMass.arthypiTable "). (i.tableMase)")

userInput = int(imput("Disase select the table you would like to prepare bill for, or 0 to exit: "))

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lead to the interval of the interval of you bill was %(total)\
Value considered interval = interv
```

```
def completeSale(): #used to save printed bill to a text file
    print(f"\nThese are the tables available to {username}")
    for i in tableList:
        if i.tableAssignment == username:
            print(f"{i.tableName.strip('Table ')}. {i.tableName}")
    userInput = int(input("Please select the table you would like to complete sale for, or 0 to exit: "))
        if tableList[userInput - 1].tableAssignment == username :
            if tableList[userInput - 1].preparedBill == True:
                fileName = input("Please enter a file name: ")
f = open(f"CompletedOrders\{fileName}.txt", "x")
                 f.write(tableList[userInput - 1].printedBill)
                print("\nSale was successfully completed")
                 tableList[userInput - 1] = tableDesign(f"Table {userInput}")
                print("\nBill is NOT prepared!")
        elif (userInput == 0):
            print("\nCancelling and Returning!")
            break
            print("Invalid selection")
            userInput = int(input("Please select the table you would like to complete sale for, 0 to exit: "))
```

```
def cashUp(): #used to show money made in a day, option to clear value
   global profits
   print(f"\nToday we made R{profits}")
   clearProfits = input("Do you wish to clear todays profit?(y/n): ")
   if clearProfits == "y":
        profits = 0
   landingPage()
```

Outputs(Code test run):

```
Welcome to Highlands Cafe Service!

1.Login
2.Exit
Please enter your choice: 1

Please enter username: Sarah
Please enter password: 12345

Welcome Sarah!
What would you like to do?

1. Assign Table
2. Change customers
3. Add to Order
4. Prepare Bill
5. Complete Sale
6. Cashup
6. Log out
Please enter your choice:
```

```
Select C:\Windows\py.exe
   Table 1
Please select the table you would like to add customers to, or 0 to exit: 1
There are currently 0 customers assigned to Table 1
What is the amount of customers: 5
5 Customers successfully added to Table 1
What would you like to do?

    Assign Table

2. Change customers
3. Add to Order
4. Prepare Bill
 . Complete Sale
6. Cashup
0. Log out
Please enter your choice: 2
These are the tables available to Sarah
1. Table 1
Please select the table you would like to add customers to, or 0 to exit: 1
There are currently 5 customers assigned to Table 1
What is the amount of customers: 2
2 Customers successfully added to Table 1
What would you like to do?
C:\Windows\py.exe
2 Customers successfully added to Table 1
What would you like to do?
1. Assign Table

    Change customers
    Add to Order

4. Prepare Bill
5. Complete Sale
 5. Cashup
0. Log out
Please enter your choice: 3
These are the tables available to Sarah

    Table 1
    Please select the table you would like to add an order to, or 0 to exit: 1

Select an item:
1. Coke at R25
2. Fanta at R25
3. Sprite at R25
4. Garlic Snails at R55
5. Calamari at R70
6. Wings at R65
7. Steak at R120
7. Steak at R120

9. Pork at R110

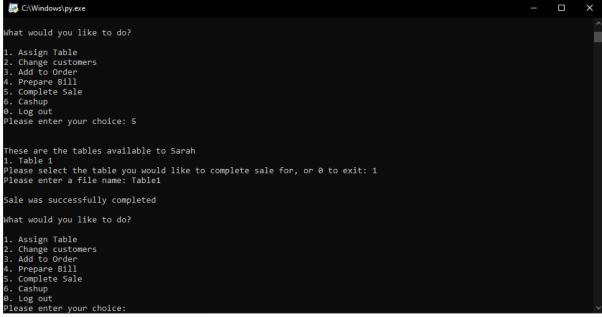
10. Ice-cream at R56

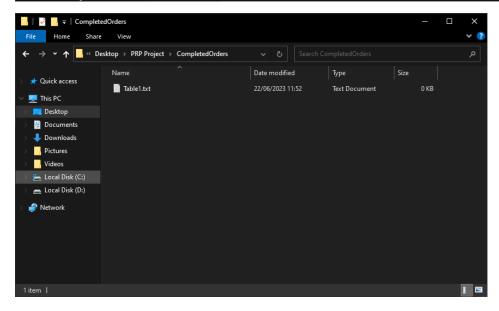
11. Waffle at R73

12. Cake at R45
What item would you like to order: 1
How many Coke/s would you like to add to the order: 5
5 Coke/s successfully added to Table 1
Would you like to add another order? (y/n): y
Select an item:
1. Coke at R25
2. Fanta at R25
3. Sprite at R25
4. Garlic Snails at R55
 5. Calamari at R70
6. Wings at R65
7. Steak at R120
8. Chicken at R109
9. Pork at R110
10. Ice-cream at R56
11. Waffle at R73
12. Cake at R45
What item would you like to order: 7
How many Steak/s would you like to add to the order: 2
2 Steak/s successfully added to Table 1
Would you like to add another order? (y/n): n
```

What would you like to do?

```
Select C:\Windows\py.exe
What would you like to do?
1. Assign Table
 2. Change customers
3. Add to Order
 4. Prepare Bill
 5. Complete Sale
 6. Cashup
0. Log out
Please enter your choice: 4
These are the tables available to Sarah
1. Table 1
Please select the table you would like to prepare bill for, or 0 to exit: 1
[('Coke', 5), ('Steak', 2)]
The bill for Table 1
                          Quantity
5 R
2 R
             Item
                                                       125
240
             Coke
              Steak
Steak 2 R 240
The total of you bill was R365
Recommended Tip is R36.5
Grand Total would be R401.5
Your bill split evenly amongst 2 would be R200.75 each
You were helped by Sarah
```





Declaration of Authenticity:

Due: 22 June 2023 16:00

Completed Declaration of Authenticity
I,, solemnly declare that the work presented in this
Summative is entirely my own. I have not plagiarized or copied the work of others without proper acknowledgment. I
affirm that the content, ideas, and arguments presented herein are the result of my independent effort and intellectual
contributions.
I understand the significance of academic integrity and the detrimental consequences of engaging in plagiarism or
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2. Any direct quotations or paraphrased information from external sources have been identified by using quotation
marks or proper citation methods.
3. I have not received any unauthorized assistance or collaboration from others in completing this work, except for
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as deemed appropriate by the educational institution.
20/00/2022
Signature: Date: