

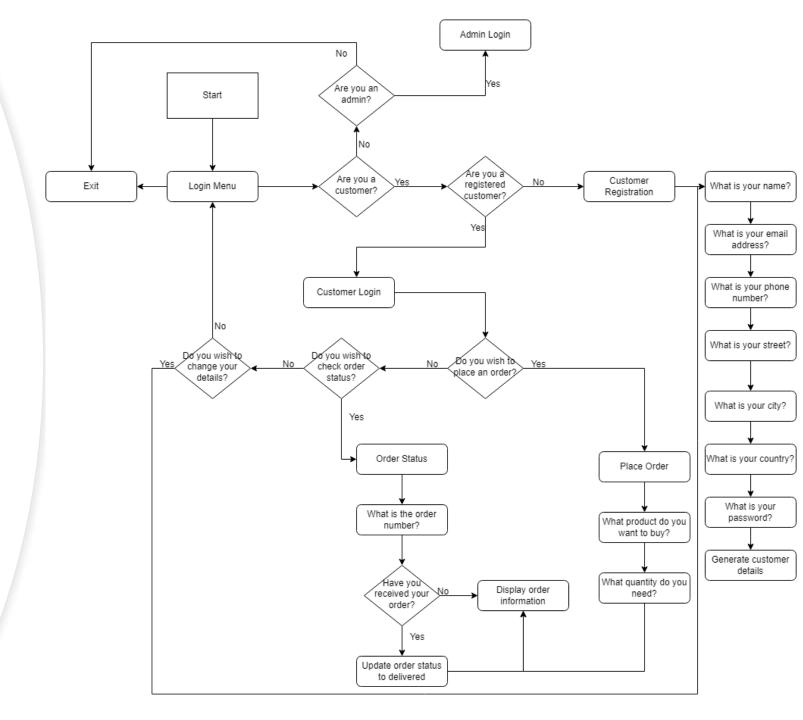
by The Bugs Busters



Introduction

- Creating a system that records admin/customer information as well as all orders placed, products details, and their relevant categories.
- Upon starting the program, it prompts you to login either as an existent customer or as an admin. If the customer is not registered, it will take them straight to registration and then back to the login menu.
- From the customer's perspective, they can place an order, check their order(s) status, change their personal details or logout and go back to the login menu.
- From the admin's perspective, they can insert a new category, new product, check sales or logout and go back to the login menu.

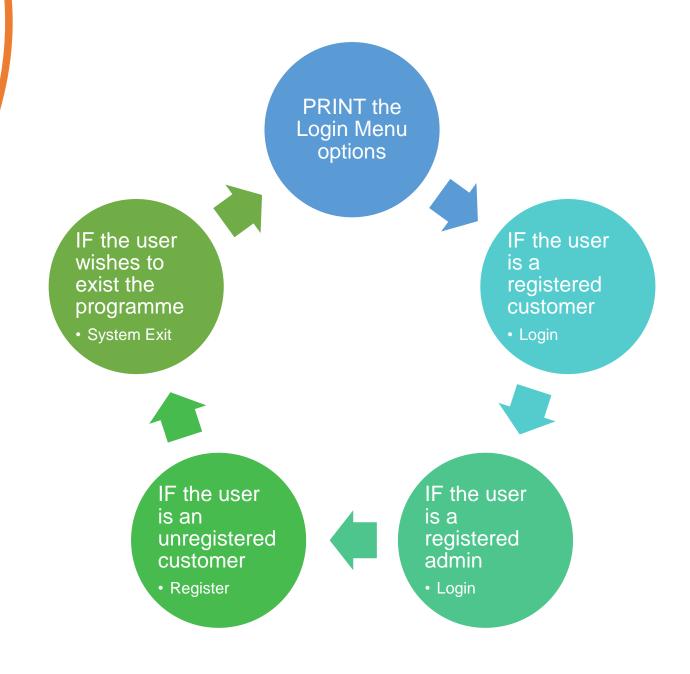
Flowchart



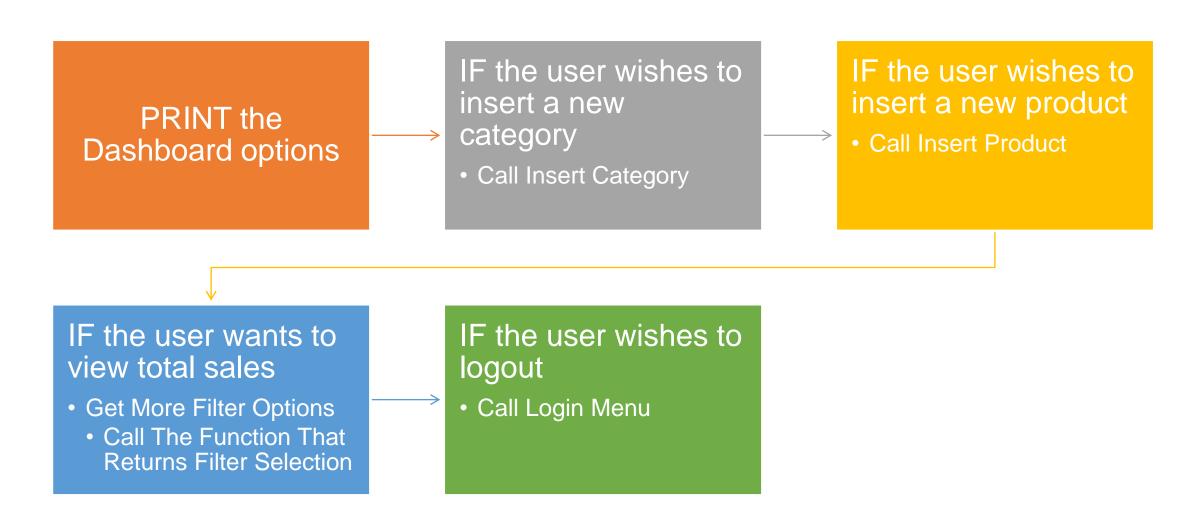
Team Description

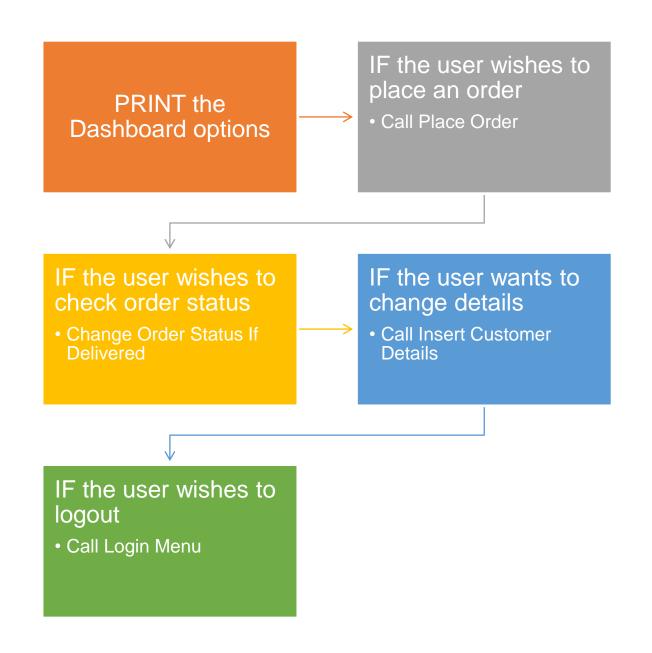
	Abas	Beatrice	Haze
Initial Tasks	Product Function Category Function	Order Function Admin	Customer Details
Worked on after:	Product Function Category Function Login Menu Dashboard Menu Flowchart	Order Function Login Menu Dashboard Menu Flowchart	Customer Details Sales Functions Bug Fixes Pseudocode

Pseudocode Login



Pseudocode Admin





Pseudocode Customer

Login Menu Function

Code Snippets

```
Login function for customers and admins
lef login(customers, admins, c):
      sys.exit()
      print()
      if check == "2": # admin
              a_username = int(input("Enter admin ID: ")) # admin username
              a_password = input("Enter admin password: ") # admin password
              if a_username <= len(admins) - 1: # username must be less or equal to the list of admins - 1
                  if a_password == admins[a_username]["Password"]: # if passwords match
                      print("\nSuccessful!\n{} has been logged in.\n".format(admins[a_username]["Name"]))
                      dashboard(True, a_username) # return to the dashboard
                      sys.exit()
      elif check == "1":
              c_username = int(input("Enter customer ID: ")) # customer username
              c_password = input("Enter customer password: ") # customer password
              if c_username <= len(admins) - 1: # username must be less or equal to the list of admins - 1
                  if c_password == customers[c_username]["Password"]: # if passwords match
                      print("\nSuccessful!\n{} has been logged in.\n".format(customers[c_username]["Name"]))
                      dashboard(False, c_username) # return to the dashboard
                      sys.exit()
      elif check == "3":
          insertCustomerDetails(customers, "-1") # update customer details
          sys.exit()
```

```
Function for inserting a new category
def insertCategory(categ, id):
   catId = len(cateq) # category id is equal to the length of the list
   while True:
       catName = input("Enter category name: ") # category name
       if catName.isalpha() and len(catName) > 1: # checks if the category name contains letters and length is > 1
           break
   while True:
       catDesc = input("Enter category description: ") # category description
       if len(catDesc) > 1: # checks if the length is > 1
           break
   cat = { # dictionary for category details
       "catId": catId,
       "Name": catName,
       "Description": catDesc,
   categ.append(cat) # appending the current category details to the end of the list
   print("\n" + cat["Name"] + " is now a new category.")
   dashboard(True, id) # go back to dashboard
```

Insert Category Function

Code Snippets

```
def salesByPriceRange(input, id):
   flags = [False, True] # List told hold the bool values that determine how the function will show the order of data
   if not input in [1, 2]: # Checks if the entered value is not in range
   msg = "Descending" if flags[input - 1] else "Ascending" # Changes message dependant on entered value
   print(f"Item Name({msg}): || Sales: ||")
   sales = {} # Initialise an empty dictionary to hold product ids as a key and total money they have accumulated
   for i in orders: # Loops through each order
       if i['product_id'] in sales: # If the current order's product id is a key in sales dictionary
           sales[i['product_id']] += i['total_price'] # Increases the value of the found product id by price in order
           sales[i['product_id']] = i[
   x = [] # Creates a list for display purposes
   for i in sales.items(): # Loops through the dictionary of products in sales dictionary
       x.append([i[1], i[0]]) # Appends them to a list with price being the first item and name bring the second item
   x.sort(reverse=flags[input - 1]) # Sorts the list by it's first value(price) in the order selected
       for i in prod: # Loops through each product of available products
           if item[1] == i["pId"]: # If the current product's id matches target product's id
              print(i["Name"] + " " * (20 - len(i["Name"]) + 1), end="\t\t")
               print()
   print()
   dashboard(True, id)
```

Retrieve Total Sales by Price Range Function

Code Snippets

```
D:\Anaconda\envs\Python3104\python.exe D:/Work/Python/Project_2/test3.py
[1] Customer Login
[2] Admin Login
[3] Customer Registration
[4] Exit
Are you a Customer or an Admin:
Enter admin ID:
Enter admin password: hello
Successful!
Abas has been logged in.
[1] Insert Category
[2] Insert Products
[3] Total Sales
[4] Logout
What would you like to do:
```

```
D:\Anaconda\envs\Python3104\python.exe D:/Work/Python/Project_2/test3.py
[1] Customer Login
[2] Admin Login
[3] Customer Registration
[4] Exit
Are you a Customer or an Admin:
Enter customer ID:
Enter customer password: 123
Successful!
Eugene has been logged in.
[1] Place Order
[2] Order Status
[3] Change Details
[4] Logout
What would you like to do:
```

Output

Admin/Customer Login Feature

```
Successful!
Abas has been logged in.
[1] Insert Category
[2] Insert Products
[3] Total Sales
[4] Logout
What would you like to do:
[1] Sales by Product
[2] Sales by Category
[3] Sales by Price Range
[4] Sales by Location
[5] Go back to dashboard
What would you like to do:
```

```
Successful!
Eugene has been logged in.
[1] Place Order
[2] Order Status
[3] Change Details
[4] Logout
What would you like to do:
Enter product ID:
Enter Quantity: 20
Order ID: 1 || Customer ID: 0 || Product ID: 0
Product Quantity: 20 || Order Status: Shipped || Total Price: 4000.0
Order has been placed!
[1] Place Order
[2] Order Status
[3] Change Details
[4] Logout
What would you like to do:
```

Output

Admin/Customer Dashboard Feature

```
What range are you looking for: 1

Item Name(Ascending): || Sales: ||

Big Desk £ 400.0

Oled Monitor £ 600.0

[1] Insert Category
[2] Insert Products
[3] Total Sales
[4] Logout
```

```
[1] Place Order
[2] Order Status
[3] Change Details
[4] Logout
What would you like to do:
What is the order number:
[1] Yes
[2] No
Have you received this order?
Order ID:|| Product Name: || Quantity: || Price: || Order Status:
             Big Desk
                                                 Delivered
[1] Place Order
[2] Order Status
[3] Change Details
[4] Logout
What would you like to do:
```

Output

Admin/Customer Dashboard Options

Conclusion



We split the coding tasks evenly and worked on them individually for the first hour or so before merging our codes.



Then we worked on bug fixes as well as implementing new features to the existing code base.



Finally, we started the documentation process and collaborated on finishing all the deliverables on time.