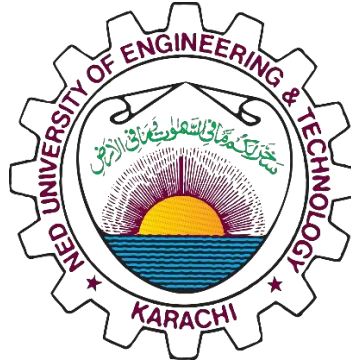


CEP



BATCH 2020-21

NAME	Hunzala mushtaq , Tehreem Fatima , Aayat Ali
ROLL NO:	CS - 052 ,CS-079,CS-042
CLASS/SEC:	Section - C
COURSE NAME	OBJECT OREINTED PROGRAMMING
COURSE CODE	CS-116
SUBMITTED TO	Miss Fouzia yasir

**DEPARTMENT OF COMPUTER & INFO SYSTEM ENGINEERING
NED UNIVERSITY OF ENGINEERING & TECHNOLOGY**

**DEPARTMENT OF COMPUTER & INFORMATION
SYSTEMS ENGINEERING BACHELORS IN COMPUTER
SYSTEMS ENGINEERING
Course Code: CS-116**

**Course Title: Object
Oriented
Programming
Complex Engineering
Problem
FE Batch 2020, Spring
Semester 2021
Grading Rubric
TERM PROJECT**

Group Members:

Student No.	Na me	Roll No.
S1	Hunzala Mushtaq	<u>CS-052</u>
S2	AAYAT ALI	<u>CS-042</u>
S3	TEHREEM FATIMA	<u>CS-079</u>

CRITERIA AND SCALES				Marks Obtained		
				S 1	S 2	S 3
Criterion 1: Does the application meet the desired specifications and produce the desired outputs? (CPA-1, CPA-3)						
1	2	3	4			
The application does not meet the desired specifications and is producing incorrect outputs.	The application partially meets the desired specifications and is producing incorrect or partially correct outputs.	The application meets the desired specifications but is producing incorrect or partially correct outputs.	The application meets all the desired specifications and is producing correct outputs.			
Criterion 2: How well is the code organization?						
1	2	3	4			
The code is poorly organized and very difficult to read.	The code is readable only to someone who knows what it is supposed to be doing.	Some part of the code is well organized, while some part is difficult to follow.	The code is well organized and very easy to follow.			
Criterion 3: How friendly is the application interface? (CPA-1, CPA-3)						
1	2	3	4			
The application interface is difficult to understand and use.	The application interface is easy to understand and but not that comfortable to use.	The application interface is very easy to understand and use.	The application interface is very interesting/innovative and easy to understand and use.			
Criterion 4: How does the student performed individually and as a team member? (CPA-2, CPA-3)						
1	2	3	4			

The student did not work on the assigned task.	The student worked on the assigned task, and accomplished goals partially.	The student worked on the assigned task, and accomplished goals satisfactorily.	The student worked on the assigned task, and accomplished goals beyond expectations.			
Criterion 5: Does the report adhere to the given format and requirements?						
1	2	3	4			
The report does not contain the required information and is formatted poorly.	The report contains the required information only partially but is formatted well.	The report contains all the required information but is formatted poorly.	The report contains all the required information and completely adheres to the given format.			
Total Marks:						

BAKERY

KEY FEATURES OF THE APPLICATION:

1. This application is cli based
2. Required any python compiler such as IDLE or VScode will be very suitable
3. This application contains 10 products
4. No limits on users' storage
5. Data base system is used sqlite3
6. OOP paradigms are extensively used in this application
7. when user forgot the password, administrator sends the 6-digit code.
8. customer can check the info of all products (detail of cakes)
9. user can see her/his info that he/she entered while making an account.
10. customer can see his previous order.
11. shopping history database contains all the previous of all the customers.
12. user database contains information of all the users stored in a table.
13. Libraries used in this application are:
 - ☐ Sqlite3
 - ☐ Smtplib
 - ☐ Django (Another Application)
14. When User forget password it send code using the smtp lib a python builtin library server Email : and Password :

Django:

This application is also on web version using Django and A lot features with user authorization and a lot more with categories class

Link : <http://hanzla.pythonanywhere.com/>

Drawbacks:

1. The user must have to select view cart option before check out, otherwise the bill calculated will be zero.
2. The product table will be updated once when the user enters products in his cart.

3. Method of product class (create _table) should be call once.
4. Administrator can only update the product table once the items are out of stock or 0.

Flow of Application

For Developers:

- ❖ Instantiating user class.
- ❖ Takes input [YES/NO] whether to run as an administrator [YES] or customer [NO].
 - if he wants to run as administrator [YES], will take email address and password and check it whether it is correct or not, by comparing it with hard coded email and password.
 - if he successfully login, then he can see users' information by pressing (1) and can update the products' stock by pressing (2).
- ❖ If he wants to run as the customer [NO], then he will be asked that he has account or not[Y/N].
 - if [Y] then login method is called, where username and password will be taken as input and we checked from database
 - If user enters wrong info, then he can try again by pressing (1)
 - Or in case he forgot the password he will asked to enter (2), then an auto generated 6-digit code will be send to his email address, then he has to verify his code
 - If he didn't verify his code, then the code will be send again.
 - when user successfully login, products will be displayed
 - if [N], then user will be asked to fill out his info to create an account. HIS ACCOUNT HAS BEEN CREATED, and a database is created containing all the users' info that signed in
 - login function is called and part (A) will be proceeded (mentioned above)
- ❖ Products are displayed from the table of database which contain all the products.
- ❖ from the displayed product table, he can see the info or any of the products(cakes), by entering product id.

- ❖ Then shopping cart class has been instantiated, and following methods are called:
 - ◆ **Add items**
 - user can add as many products as he wants.
 - He can add items by entering the product id
 - He will be asked to enter the quantity.
 - ◆ **Remove items**
 - User can remove quantity of the product from his current shopping cart.
 - For removing an item, user should enter he correct name of the cake.
- ❖ Now he can use the following methods
 - **View cart**
 - his current cart will be displayed to him
 - and he can also add or remove products from his cart.
 - If he chose any of them, add items or remove items methods will be called.
 - **Check out**
 - In check out function, the user can again remove the products if he wants to.
 - When he checked out, the date and time will be printed on screen.
- ❖ Lastly a method (main) will be called to print the welcome messages.
- ❖ He can see his previous order by entering his username.
 - All the previous orders are now displayed from the database (shopping history).

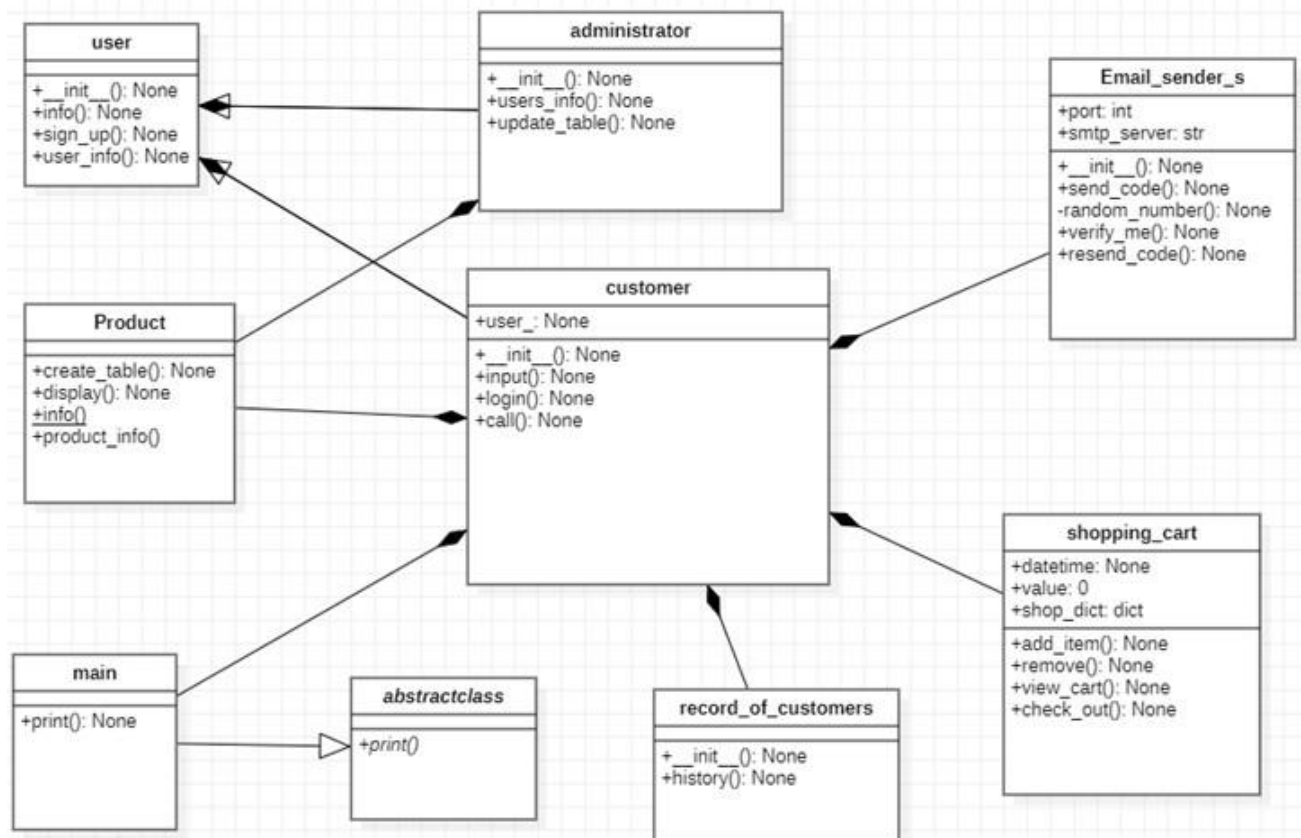
Challenging part of the code

The most challenging is shopping cart class because of its different method like add to cart, remove from cart.

We have to maintained a single dictionary (which acts as a current cart) while we are calling add item and remove item methods on it.

And at the time of check out, we are using the same dictionary to keep the record of the customer order, so that later he can see them.

UML Class Diagram:



TEST RUNs 1

```
-----
DO YOU WANT TO LOGIN AS ADMINISTRATOR[YES/NO]:NO
-----
DO YOU HAVE AN ACCOUNT[Y/N]:N
CREATING ACCOUNT
    PLEASE FILL OUT GIVEN INFO..
Enter your first name:aayaat
Enter last name:ali
Enter user name for your account:aayaatali
Enter email address:tehreemf079@gmail.com
Enter password:dfsfd
    ACCOUNT HAS BEEN CREATED..!!!
=====
LOGIN TO YOUR ACCOUNT
-----
Enter email:tehreemf079@gmail.com
Enter password:dfsfd
===== SUCCESSFULLY LOGIN....=====

PRODUCT_ID      CAKE_FLAVOUR      QUANTITY      PRICE      STOCK
-----
1                Kitkat Cake        2.5 Pound     1400.00     20
2                Chocalate Heaven Cake  2.5 Pound     1400.00     20
3                Galaxy Cake        2.5 Pound     1400.00     20
4                Coffee Cake        2.5 Pound     1200.00     20
5                Nutella Cake       2.5 Pound     1500.00     20
6                Red Velvet Cake    2.5 Pound     1200.00     20
7                Black Forest Cake  2.5 Pound     1100.00     20
8                Belgian Chocolate  2.5 Pound     1400.00     20
9                Caramel Crunch Cake 2.5 Pound     1000.00     20
10               Bombay Bakery Coffee Cake 2.5 Pound     1000.00     20

See further info. of CAKE :

select product_id :2
-----
A decadent chocolate cake with smooth chocolate
-----

do you want to see more infoENTER HERE[Y/N]:Y
See further info. of CAKE :

select product_id :10
-----
Our take on famous Bombay coffe cake,coffee based sponge with coffee frosting
-----

do you want to see more infoENTER HERE[Y/N]:N
=====
ADD TO CART[Y/N]:Y
-----
Enter CAKE ID:2
Enter QUANTITY:5
-----
ADD TO CART[Y/N]:Y
-----
Enter CAKE ID:10
Enter QUANTITY:6
-----
ADD TO CART[Y/N]:N
-----
=====
{'Chocalate Heaven Cake': ['1400.00', 5, 7000.0], 'Bombay Bakery Coffee Cake': ['1000.00', 6, 6000.0]}
REMOVE FROM CART[Y/N]:N
-----
```


DO YOU WANT TO SEE YOUR CART[Y]
OR
DO YOU WANT TO CHECK OUT[C]:Y

CAKE NAME	UNIT PRICE	QUANTITY	TOTAL PRICE
Chocalate Heaven Cake	1400.00	5	7000.0
Bombay Bakery Coffee Cake	1000.00	6	6000.0

TOTAL BILL IS 13000.0 RS

WANT TO ADD OR REMOVE[Y]
OR
ELSE YOU CAN CHECK OUT[C]:Y

ADD TO CART[Y/N]:N

{'Chocalate Heaven Cake': ['1400.00', 5, 7000.0], 'Bombay Bakery Coffee Cake': ['1000.00', 6, 6000.0]}

REMOVE FROM CART[Y/N]:Y

Enter the CAKE NAME:Bombay Bakery Coffee Cake
Number of CAKES:3

REMOVE FROM CART[Y/N]:N

CAKE NAME	UNIT PRICE	QUANTITY	TOTAL PRICE
Chocalate Heaven Cake	1400.00	5	7000.0
Bombay Bakery Coffee Cake	1000.00	3	3000.0

TOTAL BILL IS 10000.0 RS

WANT TO ADD OR REMOVE[Y]
OR
ELSE YOU CAN CHECK OUT[C]:C

YOU ARE NOW CHECKING OUT..

DO YOU STILL WANT TO REMOVE SOMETHING FROM THE CART?[Y/N]:N

Enter CREDIT CARD Number:1312314234

CHECKING OUT!!!

TOTAL BILL IS 10000.0 RS

YOUR CHECKING OUT DATE AND TIME IS: 2021-08-13 02:47:03.039625

DO YOU WANT TO SEE YOUR PREVIOUS ORDERS:[Y/N]N

===== THANKYOU FOR VISITING OUR BAKERY =====
===== DO VISIT AGAIN =====
===== HAVE A GOOD DAY.... :)))=====

TEST RUNs 2

```
-----
DO YOU WANT TO LOGIN AS ADMINISTRATOR[YES/NO]:NO
-----
DO YOU HAVE AN ACCOUNT[Y/N]:Y
=====
LOGIN TO YOUR ACCOUNT
-----
Enter email:ageelahmed.aa708@gmail.com
Enter password:hunzalaa
email or password is incorrect...
    1.TRY AGAIN
    2.FORGOT PASSWORD

PLEASE ENTER [1/2]:2
6-DIGIT CODE HAS BEEN SENT TO YOUR EMAIL
Success
YOU HAVE TO VERIFY YOUR CODE....
Enter the 6 digit Code 159383
***** VERIFIED *****
PRODUCT_ID      CAKE_FLAVOUR      QUANTITY      PRICE      STOCK
-----
1      Kitkat Cake      2.5 Pound      1400.00      18
2      Chocalate Heaven Cake      2.5 Pound      1400.00      15
3      Galaxy Cake      2.5 Pound      1400.00      20
4      Coffee Cake      2.5 Pound      1200.00      18
5      Nutella Cake      2.5 Pound      1500.00      2
6      Red Velvet Cake      2.5 Pound      1200.00      13
7      Black Forest Cake      2.5 Pound      1100.00      14
8      Belgian Chocolate      2.5 Pound      1400.00      16
9      Caramel Crunch Cake      2.5 Pound      1000.00      23
10     Bombay Bakery Coffee Cake      2.5 Pound      1000.00      17

See further info. of CAKE :

select product_id :5
-----
Richly flavored chocolate cake lathered in a delicious Nutella icing
-----

do you want to see more infoENTER HERE[Y/N]:N
=====
ADD TO CART[Y/N]:Y
-----
Enter CAKE ID:5
Enter QUANTITY:3
-----
2 IS AVAILABLE...
TRY AGAIN....BY PLACING YOUR ORDER...
=====
ADD TO CART[Y/N]:Y
-----
Enter CAKE ID:6
Enter QUANTITY:3
-----
ADD TO CART[Y/N]:Y
-----
Enter CAKE ID:5
Enter QUANTITY:2
-----
ADD TO CART[Y/N]:N
-----
```

```

=====
{'Red Velvet Cake': ['1200.00', 3, 3600.0], 'Nutella Cake': ['1500.00', 2, 3000.0]}
REMOVE FROM CART[Y/N]:Y
-----
Enter the CAKE NAME:Red Velvet Cake
Number of CAKES:1
-----
REMOVE FROM CART[Y/N]:N
-----
DO YOU WANT TO SEE YOUR CART[Y]
OR
DO YOU WANT TO CHECK OUT[C]:Y
-----
=====
CAKE NAME                UNIT PRICE                QUANTITY                TOTAL PRICE
-----
Red Velvet Cake          1200.00                2                2400.0
Nutella Cake              1500.00                2                3000.0
-----
TOTAL BILL IS 5400.0 RS

WANT TO ADD OR REMOVE[Y]
OR
ELSE YOU CAN CHECK OUT[C]:C
-----
{'Red Velvet Cake': ['1200.00', 2, 2400.0], 'Nutella Cake': ['1500.00', 2, 3000.0]}
REMOVE FROM CART[Y/N]:N
-----
*****
Enter CREDIT CARD Number:423423423424
=====
CHECKING OUT!!!

-----
TOTAL BILL IS 5400.0 RS
-----
YOUR CHECKING OUT DATE AND TIME IS:          2021-08-13 04:46:46.259465

=====
DO YOU WANT TO SEE YOUR PREVIOUS ORDERS:[Y/N]Y
Enter your EMAIL:aqeelahmed.aa708@gmail.com
-----
CUSTOMER NAME                DATE AND TIME
=====
aqeelahmed.aa708@gmail.com    2021-08-13 04:35:52.121724
=====
CAKE ORDERED
Coffee Cake
Kitkat Cake
-----
TOTAL BILL
5200.0RUPEES
=====
aqeelahmed.aa708@gmail.com    2021-08-13 04:41:04.411564
=====
CAKE ORDERED
Caramel Crunch Cake
-----
TOTAL BILL
17000.0RUPEES
=====
aqeelahmed.aa708@gmail.com    2021-08-13 04:46:46.259465
=====
CAKE ORDERED
Nutella Cake
-----
TOTAL BILL
5400.0RUPEES
=====
aqeelahmed.aa708@gmail.com    2021-08-13 04:46:46.259465
=====
CAKE ORDERED
Nutella Cake
-----
TOTAL BILL
5400.0RUPEES
=====
===== THANKYOU FOR VISITING OUR BAKERY =====
===== DO VISIT AGAIN =====

```

TEST RUNs 3

```
-----  
DO YOU WANT TO LOGIN AS ADMINISTRATOR[YES/NO]:YES  
-----
```

```
Enter email address:computerprogram812@gmail.com
```

```
Enter password:computer812
```

```
YOU HAVE FOLLOWING OPTIONS
```

```
1.YOU CAN SEE THE USERS INFORMATION
```

```
2.YOU CAN UPDATE THE PRODUCTS STOCK
```

```
Please enter the number:1
```

FIRST NAME	LAST NAME	USER NAME	PASSWORD	EMAIL ADDRESS
-----	-----	-----	-----	-----
tehreem	fatima	fatimas	fatimakhan	fatima.com
hunzala	mushtaq	hunzala123	hunzalas	mushtaq@.com
AAYAAT	ALI	AYAATALI	ALI555	AAYAAT@.COM
tehreem	fatimah	fatima021	tehfat13	tehreemf079@gmail.com

```
PS C:\Users\dell7240\Desktop\TEHREEM\CEP> |
```

tehreem	fatimah	fatima021	tehfat13	tehreemf079@gmail.com
---------	---------	-----------	----------	-----------------------

```
PS C:\Users\dell7240\Desktop\TEHREEM\CEP> |
```