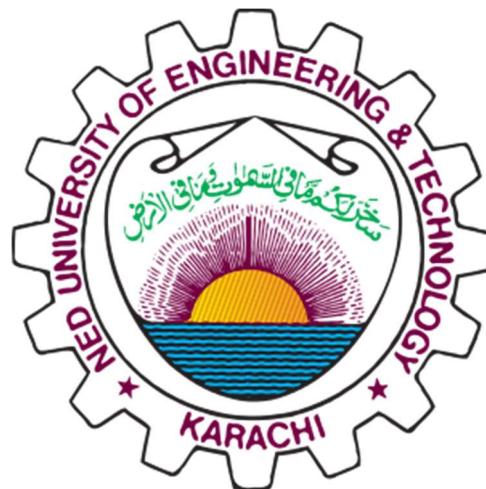


COMPLEX ENGINEERING ACTIVITY

CS-116

OBJECT ORIENTED PROGRAMMING



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SECTION 'B'

SECTION 'B'

SECTION 'C'

2020-FE

COMPUTER INFORMATION SYSTEMS

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“THE PIZZAMENT”

KEY FEATURES

- The whole project is based on **databases** through which a large amount of data can be stored easily.
- We have used a **python library Sqlite3** which can hold huge data, so it helped us a lot.
- Every **data is permanent** in the project.
- One of the unique features of this online cart is that its maintaining the **quantities of the products**.
- We are displaying its interface on **Command Line Interface** as well as **Web interface**.
- It also sends a **verification code** to the user's email if the user creates a new account.
- It only accepts **authentic emails**.
- Exception handling is done **throughout the code**.

NEW THINGS TO LEARN

- We learnt **Django** which was a new thing for which helped us to go to the web interface.
- We discovered the **python library Sqlite3** which helped us understand large data can be maintained and stored easily.
- We discovered how to use that **Email message class** in python to send mail to the user.

CHALLENGING PART

- The most challenging part throughout the program was handling the quantities i.e., **storing, adding and cancelling them and then reupdating the database after every operation**.
- The second most challenging part was to put out an initial idea of classes and functions, as it was difficult to breakdown a 3 line problem statement into meaningful classes and getting them interlinked, but we guess that's why group projects are for, we all made it possible.
- While removing bugs, we faced a lot of difficulty so making the application bug free was a challenge.

PROBLEM DESCRIPTION

REQUIRED:

We were required to submit the project based on following functionalities:

- Store and display a product list with price and other relevant information. Use fixed products; there should be at least 10 products for the user to choose from.
- Allow user to create an account with some basic information like username, password, first and last names, address etc.
- Maintain record of all account holders. Current carts and shopping history should also be stored.
- When user checks out, the items of the cart are transferred to his/her shopping history. For simplicity payment process is omitted.
- Products information, account holders list, current cart details and shopping history for each user shall be maintained and stored in files.
- Each account holder should be able to view the list of products and their relevant information from the virtual shopping shelves, add products to the cart, remove products from the cart, view the cart with product names, prices, quantities, total price, checkout, view shopping history address, etc.

ACCOMPLISHED:

By complete dedication, we fulfilled every requirement mentioned above and did some extra functionalities too. Commenting and use of docstrings are quite generous.

FURTHER DESCRIPTION:

- Basically our program has **5 main classes** naming PizzaStore, Display, Users, and History. Our project satisfies the need of **abstract classes** too which are SDisplay, SUsers, SHistory and Store.
- The abstract classes contain **abstract methods** as well as **concrete methods**.

Abstract Classes:

- The **first abstract class** SDisplay for Display contains 2 **abstract methods**, Namely show_order (for displaying order) and show_users (for displaying users). The show_order method is defined to be **static** too. These two are to be implemented as the **concrete methods** of the **sub class** and lastly 1 static method show_pizzas (for displaying the pizzas) is made concrete in SDisplay.
- The **second abstract class** SUsers for Users contains 2 abstract methods which are user_login (for logging users) and delete (for deleting users). These two are to be implemented as the **concrete methods** of the **sub class**.

- The **third abstract class** Store for PizzaStore contains 2 abstract methods order_items (for taking inputs from the user) and review_order (for reviewing the order) are to be implemented in the **concrete method** of sub class.
- The **fourth abstract class** SHistory for History contains 2 abstract methods named add_to_history (for adding history) and delete_history (for deleting history) are to be implemented in the **concrete method** of sub class.

Main Classes:

- The **first main class** is Display **inherited** from an abstract class SDisplay contains 3 methods and uses a concrete method show_pizzas from its abstract class, show_users and show_order method **overrides** the ones created in abstract class, the show_history is unique to this class alone. This class also **overloads** the operators like negative, positive and invert for displaying orders, displaying history and displaying all the pizzas respectively.
- The **second main class** is History **inherited** from an abstract class SHistory which contains 5 methods. add_to_history and delete_history override the ones created in abstract class, the confirm, check_history and __init__ methods are unique to this class alone. All of the methods except for __init__ are static.
- The **third main class** is PizzaStore **inherited** from an abstract class Store contains 6 methods order_items and review_order **override** the ones created in abstract class. The __init__ and set_default_items are unique to this class alone. Also, check_products and set_new_prod are static methods. **Association (composition)** is used in connecting PizzaStore to Display.
- The **fourth main class** is Users, inherited from an abstract class SUsers. It's interlinked with PizzaStore and History through **Association (composition)** and has 6 methods, user_login and delete are **overridden** from that of the base class. The __init__ and verify are its own unique **concrete methods**. The check_user and generate_code are kept static.

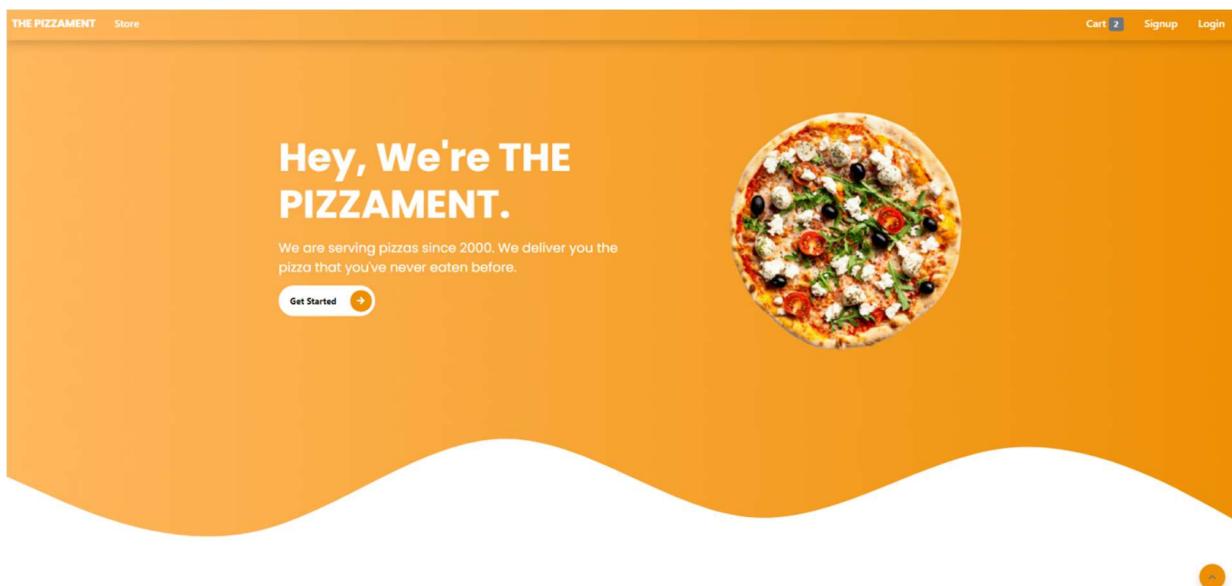
Sub Class:

- The main **sub class** of the program is Admin class, which is associating with class History and **inheriting** from classes Users, PizzaStore and Display which contains 4 methods named add_product which adds a user defined product to the original product list, delete which deletes a user, delete_history which deletes the history of a user and lastly show_history which **overrides** the show_history method and displays the history of any specified user.

FLOW OF THE PROGRAM

COMMAND LINE INTERFACE:

- The program starts from a menu allowing the user to select the interface whether to go for CLI or Web or simply exit the application but of course no user would exit without even using the application 'THE PIZZAMENT'.
- If the user selects CLI, the program takes it to the CLI and if the user selects Web interface, it takes it to the Web interface.
- As you can see, after selecting the Web interface the application directs the user to a new tab opening our WEBSITE:
<http://raffay2001.pythonanywhere.com/>



- Then, meanwhile the web is opened on the new tab the time module we used takes 5 seconds to show the menu again to the user.

```
Kindly configure your IDLE to size: 10 with an indent spacing of 4. Thank you!
*****
      Welcome to   THE PIZZAMENT
*****  
  
How do you want to proceed?
1) Command Line Interface
2) Web view
3) Close  
  
Select your option : 2  
  
How do you want to proceed?
1) Command Line Interface
2) Web view
3) Close  
  
Select your option : 3
Was the application good enough?
1) Yes
2) No
Select your option: 1
Thankyou for liking it,hope to serve you again :)
```

- The exit option asks the user about his/her views too!
- If the user selects CLI, it again shows a menu that whether the user wants to login as a user or admin and of course he/she will login as a user but if he/she tries to login through admin then an error is caught as follows.

```

Enter your username : Ayeshal23
Enter your password : forgotlolo
You are not registered as an admin.
Logging out
.
.
.
.

How do you want to login as?
1) User
2) Admin
3) Exit
Your Option :

```

- If the user enters the application through the user option, then it further asks it for any existing account in THE PIZZAMENT. If yes, then it asks for the username and password and if it matches the password against existing username and proceeds else shows an error and if the username doesn't exist then another error is raised.

```

How do you want to login as?
1) User
2) Admin
3) Exit
Your Option : 1
Do you already have an account? (y/n)
Y
Enter your username : Sarah Rashid
Enter your password : gsdjshd

The password does not match with the given username.

Enter your username : dhjsd
Enter your password : Hafsa

Such Account Doesn't Exist!

```

- If the account doesn't exist, then it creates the account by asking some relevant information like **authentic email** and here comes our striking feature of **sending a mail to the user** i.e., the verification code. User has to enter the correct code which he/she received in the mailbox else it will show an error.

```

Kindly configure your IDLE to size: 10 with an indent spacing of 4. Thank you!
*****      Welcome to   THE PIZZAMENT      *****
=====

How do you want to proceed?
1) Command Line Interface
2) Web view
3) Close

Select your option : 1

How do you want to login as?
1) User
2) Admin
3) Exit
Your Option : 1
Do you already have an account? (y/n)
n
Enter your authentic email address : hafsaazhar360@gmail.com

Please check your internet connection and try again.
Enter your authentic email address : hafsaazhar

Such email doesn't exist!

```

```

Do you already have an account? (y/n)
n
Enter your authentic email address : hafsaazhar360@gmail.com

email sent successfully!
Please check your inbox and spam folder in 5 seconds.
Please Enter the code here : gfd

The code is invalid!
Please enter the correct code here :

```

- Now if the entered code is correct it asks for a name and password and but there's a check of characters that both should be greater than 7.

```

Enter your authentic email address : hafsaazhar360@gmail.com

email sent successfully!
Please check your inbox and spam folder in 5 seconds.
Please Enter the code here : gdizbD
Enter your username : Bakhtawar
Enter your password : tete

Username and Password should be greater than 7 characters.

```

- There's also a check for net connection as the email cannot be sent if the system is not having an internet connection.

```

Kindly configure your IDLE to size: 10 with an indent spacing of 4. Thank you!

*****      Welcome to THE PIZZAMENT      *****
=====

How do you want to proceed?
1) Command Line Interface
2) Web view
3) Close

Select your option : 1

How do you want to login as?
1) User
2) Admin
3) Exit
Your Option : 1
Do you already have an account? (y/n)
n
Enter your authentic email address : hafsaazhar360@gmail.com

Please check your internet connection and try again.
Enter your authentic email address :

```

- Now it shows a menu offering the user many different options like ordering, reviewing, paying, showing history bills and every relevant thing.
- If the user clicks on the order options, it allows the user to select the desired pizza by showing all pizzas.
- Now there are some checks related to entering the serial number of desired pizza and quantity, as user cannot enter the serial which has been completely sold out (i.e., quantity is zero) out of range like negative too as well as quantity more than mentioned, as there are different exception handlings and checks maintained throughout the process.

S.No	Qt.	Pizza	price
1)	46	Cheese Pizza	1350
2)	18	Veggie Pizza	1200
3)	30	Pepperoni Pizza	1600
4)	20	Meat Pizza	1450
5)	10	Margherita Pizza	1150
6)	60	BBQ Chicken Pizza	1550
7)	5	Hawaiian Pizza	1400
8)	0	Diet Pizza	850
9)	15	Mushroom Pizza	950
10)	0	Pineapple Pizza	1300
11)	3	Afghani Pizza	1200

```

Enter the serial number of the pizza you want to buy : -2
Enter the quantity : 3

```

```

Please select a valid value!

```

S.No	Qt.	Pizza	price
1)	50	Cheese Pizza	1350
2)	18	Veggie Pizza	1200
3)	30	Pepperoni Pizza	1600
4)	20	Meat Pizza	1450
5)	10	Margherita Pizza	1150
6)	60	BBQ Chicken Pizza	1550
7)	5	Hawaiian Pizza	1400
8)	0	Diet Pizza	850
9)	15	Mushroom Pizza	950
10)	0	Pineapple Pizza	1300

Enter the serial number of the pizza you want to buy : 5
 Enter the quantity : 11

Sorry, We can't provide that many Margherita Pizza at the moment. Please try a different one :

- You can add as many pizzas you want and also cancel any pizza at any moment by selecting the review order option as it asks you to make changes to your order. The order is shown in a systematic manner as it gives you the time and date with it too. The name of the pizza selected is also removed from the order if the all of its quantity is cancelled and then it is sent back to store, if only some quantity is removed then there will only be a reduce in it and will be displayed in the list of pizzas again in both the cases.

```
Which of the following options do you want to perform?
1) Order
2) Review Order
3) Proceed to payment
4) Delete account
5) Show History
6) Delete History
7) Exit

Your option : 2

Username : hafsaaaaa
Dated : 09-08-21
Time : 01:56:06 AM
Order : 1) Cheese Pizza xl
Total bill : 1350

Do you want to confirm the order? (y/n)
Select (y), if u don't want to make any changes. Select (n), if u want to edit your order.
You can only edit a single entry, to change more Reuse the Review Order option
Your selection :

The cancelled pizza has been successfully sent back to the store.
Your Order is :

Username : hafsaaaaa
Dated : 09-08-21
Time : 01:56:06 AM
Order :
Total bill : 0
```

- You can also delete your history and your account too and exit when you want but remember that you can't exit without paying!
- If you have paid you can't order again as you can only order once.

```
Please leave the cash inside the Bill holder :)

Which of the following options do you want to perform?
1) Order
2) Review Order
3) Proceed to payment
4) Delete account
5) Show History
6) Delete History
7) Exit

Your option : 1
You can only order once!
Please exit and try again.
```

```
Which of the following options do you want to perform?
1) Order
2) Review Order
3) Proceed to payment
4) Delete account
5) Show History
6) Delete History
7) Exit

Your option : 5

USERNAME : hafsaaaaa
=====

ALL ORDERS UPTIL NOW :
*****
Total Expenditure : 0

Which of the following options do you want to perform?
1) Order
2) Review Order
3) Proceed to payment
4) Delete account
5) Show History
6) Delete History
7) Exit

Your option : 6
Are you sure you want to delete your order history? (y/n)
Y
```

```
Which of the following options do you want to perform?
1) Order
2) Review Order
3) Proceed to payment
4) Delete account
5) Show History
6) Delete History
7) Exit

Your option : 5
There is no history to display!
```

```
Which of the following options do you want to perform?
1) Order
2) Review Order
3) Proceed to payment
4) Delete account
5) Show History
6) Delete History
7) Exit
```

Which of the following options do you want to perform?

- 1) Order
- 2) Review Order
- 3) Proceed to payment
- 4) Delete account
- 5) Show History
- 6) Delete History
- 7) Exit

Your option : 7

Please pay before exiting!

Your option : 3

Select method of payment

- 1) Credit card
- 2) Cash

Your option : 1

Enter your Card no. and Bank name :

67895 Al habib

Payment received.

Which of the following options do you want to perform?

- 1) Order
- 2) Review Order
- 3) Proceed to payment
- 4) Delete account
- 5) Show History
- 6) Delete History
- 7) Exit

USERNAME : Mudasir

=====

ALL ORDERS UPTIL NOW :

1) Dated : 09-08-21
Time : 12:17:32 PM
:0

2) Dated : 09-08-21
Time : 12:23:51 PM
Veggie Pizza xl Margherita Pizza xl2 :15000

Total Expenditure : 15000

Which of the following options do you want to perform?

- 1) Order
- 2) Review Order
- 3) Proceed to payment
- 4) Delete account
- 5) Show History
- 6) Delete History
- 7) Exit

Your option : 6

Are you sure you want to delete your order history? (y/n)

n

Nice choice, maintaining history is a good thing :)

- Above we can see some more options a user can perform.
- Since the account has been deleted so you can't pay too, we have caught that error too.

```
Your selection : n
Enter the serial number of the Pizza (FROM YOUR ORDER) you wish to delete : 11
Enter the quantity you want to be removed of the selected Pizza : 3
```

```
PLEASE ENTER VALID VALUES
```

- In the above error we can see that a user can delete from his/her own order only.
- Now you may exit.
- A user can login through Admin option too if he/she has an account prior at our THE PIZZAMENT then he can proceed further else he/she will go through the same email and code verification process resulting in making an account but remember he/she can only make an account but couldn't get access of all the admin related options as admin is recognized by the application already. In case of someone else the application exits with some time and takes the user back to the menu.

```
How do you want to login as?
1) User
2) Admin
3) Exit
Your Option : 2

Hint: admin username is Mudasir, password is Hafsa and Email is Raffay
Do you already have an account? (y/n)
n
Enter your authentic email address : hafsaazhar360@gmail.com

email sent successfully!
Please check your inbox and spam folder in 5 seconds.
Please Enter the code here : QeggfN
Enter your username : gigil234
Enter your password : shokololo
You are not registered as an admin.
Logging out
.
.
.
.
```

- Now, if the admin wants to perform some operations so he can easily by logging in by username and password. This username and password are shown in the hint and also recognized by the application so it will proceed further.

```
Hint: admin username is Mudasir, password is Hafsa and Email is Raffay  
Do you already have an account? (y/n)  
Y  
Enter your username : Mudasir  
Enter your password : Hafsa  
The system has recognized the user as Admin...
```

```
User logged in successfully!
```

```
Which of the following options do you want to perform ?
```

- 1) Show all products
- 2) Add products
- 3) Show all users
- 4) Delete a user
- 5) Show History
- 6) Delete History
- 7) Exit

- An admin can see all the pizzas and can add more pizzas to the list too like:

```
Your option : 1
```

S.No	Qt.	Pizza	price
1)	50	Cheese Pizza	1350
2)	40	Veggie Pizza	1200
3)	30	Margherita Pizza	1150
4)	20	BBQ Chicken Pizza	1550
5)	10	Hawaiian Pizza	1400
6)	60	Diet Pizza	850
7)	5	Pepperoni Pizza	1600
8)	0	Meat Pizza	1450
9)	15	Mushroom Pizza	950
10)	0	Pineapple Pizza	1300
11)	11	Afghani	1200

```
Which of the following options do you want to perform ?
```

- 1) Show all products
- 2) Add products
- 3) Show all users
- 4) Delete a user
- 5) Show History
- 6) Delete History
- 7) Exit

```
Your option : 2
```

```
Enter the quantity of the pizza : 2
```

```
Enter the flavour of the pizza : Afghani Pizza
```

```
Enter the price of the pizza : 1200
```

Which of the following options do you want to perform ?

- 1) Show all products
- 2) Add products
- 3) Show all users
- 4) Delete a user
- 5) Show History
- 6) Delete History
- 7) Exit

Your option : 1

S.No	Qt.	Pizza	price
1)	50	Cheese Pizza	1350
2)	40	Veggie Pizza	1200
3)	30	Margherita Pizza	1150
4)	20	BBQ Chicken Pizza	1550
5)	10	Hawaiian Pizza	1400
6)	60	Diet Pizza	850
7)	5	Pepperoni Pizza	1600
8)	0	Meat Pizza	1450
9)	15	Mushroom Pizza	950
10)	0	Pineapple Pizza	1300
11)	11	Afghani	1200
12)	2	Afghani Pizza	1200

- An admin can see all the users with their relevant information too while deleting any user too and then also deleting a user's history. Following screenshots will elaborate more.

Your option : 3

S.No	Username	Password	Email
1)	Mudasir	Hafsa	Rafay
2)	hafsaaaaa	azharrrrrrrrrr	hafsaazhar360@gmail.com
3)	gigil234	shokololo	hafsaazhar360@gmail.com

Which of the following options do you want to perform ?

- 1) Show all products
- 2) Add products
- 3) Show all users
- 4) Delete a user
- 5) Show History
- 6) Delete History
- 7) Exit

Your option : 4

Enter the name of the user you want to delete: hafsaaaaa

Which of the following options do you want to perform ?

- 1) Show all products
- 2) Add products
- 3) Show all users
- 4) Delete a user
- 5) Show History
- 6) Delete History
- 7) Exit

Your option : 3

S.No	Username	Password	Email
1)	Mudasir	Hafsa	Rafay
2)	gigil234	shokololo	hafsaazhar360@gmail.com

```
Which of the following options do you want to perform ?  
1) Show all products  
2) Add products  
3) Show all users  
4) Delete a user  
5) Show History  
6) Delete History  
7) Exit
```

Your option : 5

Enter the name of the user : gigil234

USERNAME : gigil234

```
=====
```

ALL ORDERS UPTIL NOW :

```
*****
```

Total Expenditure : 0

```
Which of the following options do you want to perform ?  
1) Show all products  
2) Add products  
3) Show all users  
4) Delete a user  
5) Show History  
6) Delete History  
7) Exit
```

Your option : 6

Enter the name of the user you want to delete: gigil234

Which of the following options do you want to perform ?

```
1) Show all products  
2) Add products  
3) Show all users  
4) Delete a user  
5) Show History  
6) Delete History  
7) Exit
```

Your option : 5

Enter the name of the user : gigil234

There is no history to display.

- In this way the admin can exit performing all the operations.
- We have also asked the user for their views.

```

Kindly configure your IDLE to size: 10 with an indent spacing of 4. Thank you!

*****      Welcome to THE PIZZAMENT      *****
=====

How do you want to proceed?
1) Command Line Interface
2) Web view
3) Close

Select your option : 3
Was the application good enough?
1) Yes
2) No
Select your option: 1
Thankyou for liking it,hope to serve you again :)
>>>
===== RESTART: C:\Users\Lenovo\Desktop\COMPLEX ENGINEERING PROBLEM.py =====
Kindly configure your IDLE to size: 10 with an indent spacing of 4. Thank you!

*****      Welcome to THE PIZZAMENT      *****
=====

How do you want to proceed?
1) Command Line Interface
2) Web view
3) Close

Select your option : 3
Was the application good enough?
1) Yes
2) No
Select your option: 2
We'll try better next time :)

```

- There's basically a check everywhere if you enter some invalid value one of the examples is:

```

Do you want to confirm the order? (y/n)
Select (y), if u don't want to make any changes. Select (n), if u want to edit your order.
You can only edit a single entry, to change more Reuse the Review Order option
Your selection : 1
Try again

```

- The expression, if `_name_ == __main__` is used so that, the procedural part of the code remains un-accessible if the module it self gets imported somewhere else. The interface remains unique for this module only.

WEB INTERFACE:

Web Based Project Introduction:

In the Web version of our Virtual Shopping Cart, we have made a Full Stack Pizza Delivering App with User Authentication built with the following Tech. Stack:

For Frontend:

- 1-HTML 2-CSS 3-BOOTSTRAP

For Backend:

- 1-Python (DJANGO)

KEY-FEATURES:

The distinct features of the App are the following:

- User Authentication (Log in / Sign Up Functionality)
- Cart Functionality (User can add or remove as many products to his/her cart with any quantity of them)
- Orders History (User can see the History of all the Orders which he has made since the registration)

IMPLEMENTATION ANALYSIS:

In order to write the whole backend logic for the app, we have used DJANGO which is a well-known Web Framework written purely in python. For the key-features as well as for the common features we have made use of various Django Modules and Concepts. Below are defined some of the Object Oriented as well as the Procedural concepts of DJANGO which we have used to code the App:

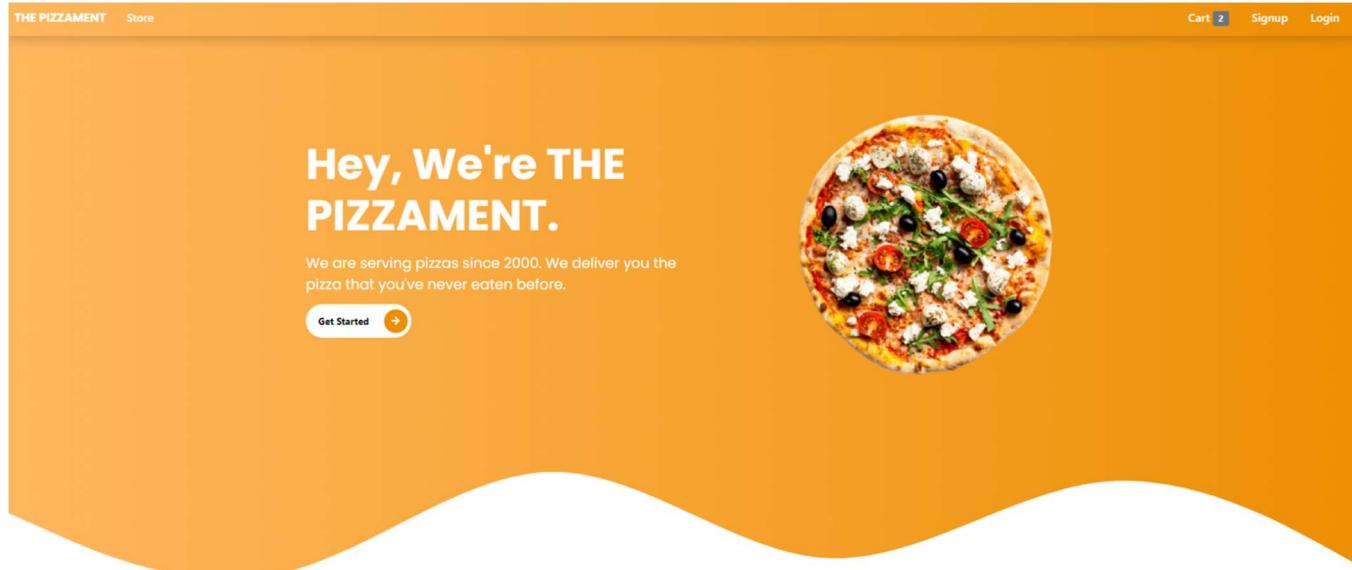
We have made use of Inheritance in order to make all the models for our database and have also used Inheritance in order write class-based views (views is the concept of functions that are mapped to their respective URLs to show various pages of the web app).

We have written decorator functions in order to implement the concept of Middleware in DJANGO (Middleware is for the security purposes) and also to use filters in DJANGO (filter is a thing which helps us execute python functions dynamically on the front end i.e., in the HTML). We have also written some independent functions for various utility purposes.

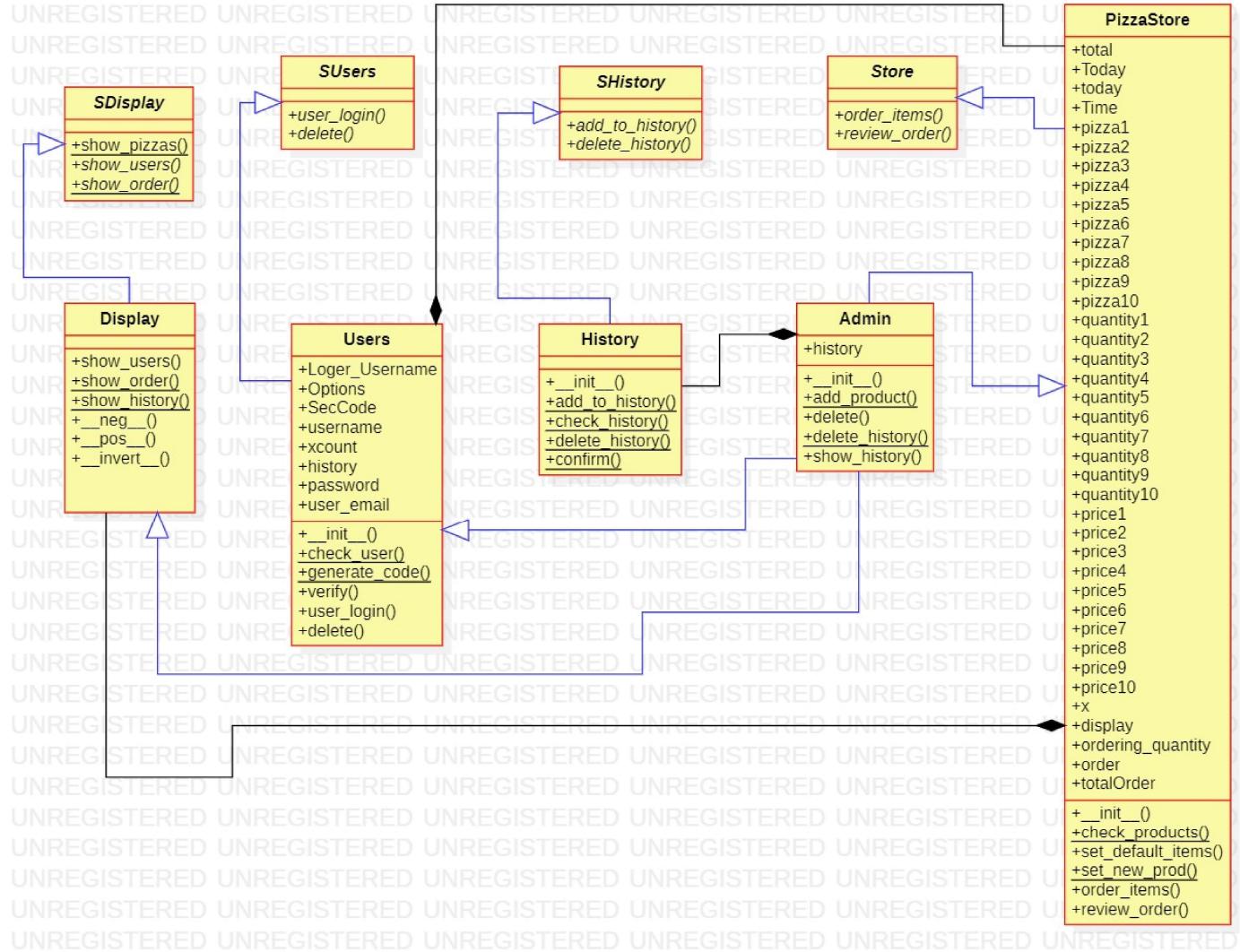
THE CONCEPT WHICH GAVE TOUGH TIME IN IMPLEMENTATION:-

Although the app was smoothly written, but there are some concepts which we found it hard to implement some of which are:

We faced a little bit difficulty in order to implement the authentication feature in the App. Although, DJANGO gives us the built in **auth module** to implement the authentication stuff but we have written the logic for that from scratch in a class-based view.



CLASS DIAGRAM



TEST RUNS

RUN #1: AS A USER

```
Kindly configure your IDLE to size: 10 with an indent spacing of 4. Thank you

*****      Welcome to THE PIZZAMENT      *****
=====

How do you want to proceed?
1) Command Line Interface
2) Web view
3) Close

Select your option : 1

How do you want to login as?
1) User
2) Admin
3) Exit
Your Option : 1
Do you already have an account? (y/n)
n
Enter your authentic email address : hafsaazhar360@gmail.com
email sent successfully!
Please check your inbox and spam folder in 5 seconds.
Please Enter the code here : cRklXY
Enter your username : Azka Azhar
Enter your password : Azhar1234

Which of the following options do you want to perform?
1) Order
2) Review Order
3) Proceed to payment
4) Delete account
5) Show History
6) Delete History
7) Exit

Your option : 1
YOU CAN ONLY ORDER ONCE, PLEASE PROCEED CAUTIOUSLY !
Tip: choose more, you can edit the order by Review Order option!
=====
| S.No    Qt.        Pizza           price |
=====
1)      50    Cheese Pizza       1350
2)      40    Veggie Pizza       1200
3)      30    Margherita Pizza   1150
4)      20    BBQ Chicken Pizza  1550
5)      10    Hawaiian Pizza    1400
6)      60    Diet Pizza         850
7)      5     Pepperoni Pizza   1600
8)      0     Meat Pizza        1450
9)      15    Mushroom Pizza     950
10)     0     Pineapple Pizza   1300

Enter the serial number of the pizza you want to buy : 1
Enter the quantity : 2

Do you want to order other pizzas too? (y/n)
n

Username : Azka Azhar
Order : 1) Cheese Pizza x2
Total bill : 2700

Which of the following options do you want to perform?
1) Order
2) Review Order
3) Proceed to payment
4) Delete account
5) Show History
6) Delete History
7) Exit

Your option : 3
Select method of payment
1) Credit card
2) Cash
Your option : 2
Please leave the cash inside the Bill holder :)
```

```
Which of the following options do you want to perform?
1) Order
2) Review Order
3) Proceed to payment
4) Delete account
5) Show History
6) Delete History
7) Exit
```

```
Your option : 7
Are you sure you want to exit ? (y/n)
Y
```

```
How do you want to login as?
1) User
2) Admin
3) Exit
Your Option : 3
```

```
Hope you have a great day! :)
```

```
How do you want to proceed?
1) Command Line Interface
2) Web view
3) Close
```

```
Select your option : 3
Was the application good enough?
1) Yes
2) No
Select your option: 1
Thank you for liking it, hope to serve you again :)
>>>
```

RUN # 2: AS AN ADMIN

Kindly configure your IDLE to size: 10 with an indent spacing of 4. Thank you!

***** Welcome to THE PIZZAMENT *****

How do you want to proceed?

- 1) Command Line Interface
- 2) Web view
- 3) Close

Select your option : 1

How do you want to login as?

- 1) User
- 2) Admin
- 3) Exit

Your Option : 2

Hint: admin username is Mudasir, password is Hafsa and Email is Rafay

Do you already have an account? (y/n)

y

Enter your username : Mudasir

Enter your password : Hafsa

The system has recognized the user as Admin...

User logged in successfully!

Which of the following options do you want to perform ?

- 1) Show all products
- 2) Add products
- 3) Show all users
- 4) Delete a user
- 5) Show History
- 6) Delete History
- 7) Exit

Your option : 3

=====

S.No	Username	Password	Email
1)	Mudasir	Hafsa	Rafay
2)	Azka Azhar	Azhar1234	hafsaazhar360@gmail.com

Which of the following options do you want to perform ?

- 1) Show all products
- 2) Add products
- 3) Show all users
- 4) Delete a user
- 5) Show History
- 6) Delete History
- 7) Exit

Your option : 3

=====

S.No	Username	Password	Email
1)	Mudasir	Hafsa	Rafay
2)	Azka Azhar	Azhar1234	hafsaazhar360@gmail.com

Which of the following options do you want to perform ?

- 1) Show all products
- 2) Add products
- 3) Show all users
- 4) Delete a user
- 5) Show History
- 6) Delete History
- 7) Exit

Your option : 4

Enter the name of the user you want to delete: Azka Azhar

Which of the following options do you want to perform ?

- 1) Show all products
- 2) Add products
- 3) Show all users
- 4) Delete a user
- 5) Show History
- 6) Delete History
- 7) Exit

Your option : 3

=====

S.No	Username	Password	Email
1)	Mudasir	Hafsa	Rafay

Which of the following options do you want to perform ?

- 1) Show all products
- 2) Add products
- 3) Show all users
- 4) Delete a user
- 5) Show History
- 6) Delete History
- 7) Exit

Your option : 7

Are you sure you want to exit ? (y/n)

y

How do you want to login as?

- 1) User
- 2) Admin
- 3) Exit

Your Option : 3

Hope you have a great day! :)

How do you want to proceed?

- 1) Command Line Interface
- 2) Web view
- 3) Close

Select your option : 3

Was the application good enough?

- 1) Yes
- 2) No

Select your option: 1

Thank you for liking it, hope to serve you again :)

>>>

RUN # 3: WEB VIEW

The screenshot displays the THE PIZZAMENT website interface. At the top, there's a banner with a large pizza image and the text "Hey, We're THE PIZZAMENT". Below this is a "Get Started" section asking for user information like First Name, Last Name, Phone No., E-Mail, and Password. To the right is a grid of 12 pizza options with names like Pepperoni, Margherita, Hawaiian, etc. Each pizza has an "Add to Cart" button. Further down is a "Your Cart" section showing four items: Margherita, Hawaiian, Buffalo Pizza, and Pure Veggie, with a total of 3050 Rs. A "Checkout" button is at the bottom right of the cart.

Our Services

We Provide You All The Services Necessary To Let You Experience The Best Pizzas

Along with the glutamate, during the pizza cooking process, the maillard reaction we perform, brings forward the flavor compounds that give our pizza its distinct flavor. During the cooking process, the sugars and amino acids in the dough and pizza toppings converge to create the flavor compounds and that makes our THE PIZZAMENT a unique place to go to!

Fastest Delivery

We have the fastest Delivery Network for our dearest customers. Our Network Includes 2000 of the Bike Riders who deliver you the pizza regardless of your Geo-Location. And most importantly, We charge zero delivery charges.

[Learn more](#)



Thank You!

