



# NORTH SOUTH UNIVERSITY

Center of Excellence in Higher Education  
*The first private university in Bangladesh*

School of Engineering & Physical Sciences  
Department of Electrical and Computer Engineering

## Project: Iteration 3

Course Name: Software Engineering  
Course Code: CSE 327

Submitted To:

Dr. Sarker Tanveer Ahmed Rume (TAR)

Associate Professor

Section: 8

Class Time: RA 08:00 AM – 09:30 AM

Submitted By:

**Team Member 1:**

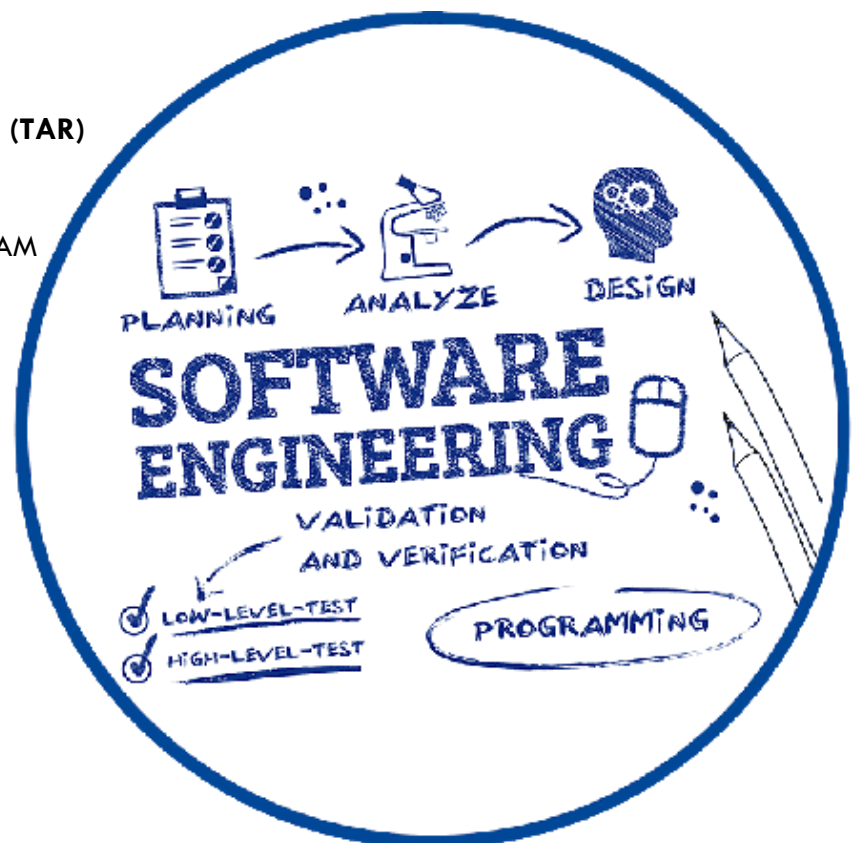
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ID: 1911916642



Submission Date: 5<sup>th</sup> January 2023 (Thursday)

## CSE 327- ITERATION 3

### Team member

1. Md Raihan Khan (1831118042)
2. Zannatul Islam Proma (1911916642)

### Use Case No:1

#### Title: Create Account to the system

**Actors:** Admin Customer

**Description:** The create account use case allow the admin and customer to create their accounts and become a registered member.

#### Main Success Scenario:

1. The customer enters the full name, email address, and password.
2. The manager enters the full name, email address, password, and name of the restaurant.
3. The system will ask them to choose a strong password.
4. The system will ask to reenter the password.
5. The account will be created after clicking on the sign-up button.

#### Exception:

- 1.1 The main authorized system show an invalid appearance of information
  1. The system will show the message to re-enter valid data.
  2. User enters valid data into the system
- 1.3 The system will show a weak password warning
  1. The system will show the message to enter a strong password.
  2. The system will suggest to create a new strong password
  3. User selects a new password
- 1.4 User given Password is not matching.
  1. The system will show the message to reenter the password.
  2. User set the password again

**Preconditions:** None

#### Postconditions:

1. The admin and customers are now registered.
2. The system display all features to which customer and admin are associated as defined in their account.

**Use Case No:2****Title: Login to the system**

**Actor:** Admin, Customer

**Main Success Scenario:**

1. The system requests that the actor enter his/her name and password.
2. The actors enter his/her name and password.
3. The system validates the entered name and password and logs the actor into the system. 4.

Customer & Admin can view the full site now

**Extensions:**

\*a. The remote target server is not responding

1. customer will wait sometime to start again
2. developer will build a secure & higher server platform

2a. The user input the wrong name and password

1. The user input the right name & password

2b. User forgets the password

1. Click forgets the password and with validation, the message gives another password.

3c. Invalid Username & Password

1. Enter the correct username & password

**Precondition:**

1. The admin & customer must have an internet connection.
2. Admin must have login id and password.
3. Customer must be registered

**Post Condition:**

1. If validation was successful, the actor is now logged into the system.
2. If not the system state is unchanged. Due to network work errors, the Customer and admin are unable to log in.

**Use Case No: 3****Title: Order a Pizza**

**Actor:** Customer

**Main Success Scenario:**

1. To order Pizza the Customer must provide his or her name, contact number, email address, and location.
2. Customer has to choose the Pizza he/she wants to order.
3. The customer must enter the number of pizzas, and types of pizza, choose ingredients and recommend adding the ones, he wishes to order.
4. The ordering system will present payment and shipping information that the customer previously added
5. The system will confirm that existing information should be used for this order
6. Order system the record of the previous order and give suggestion
7. The system will show total amount
8. Customer will confirm the order
9. the system will confirm the order

**Extension:**

- \*a. The server cannot handle an excessive number of requests.
    1. server needs to use a higher build-in configuration
  - \*b. The system show error in User Input.
    1. user must check all information
    2. user give right information
- 1a. The customer providing the information is different from the information stored in her account
    1. The customer will provide the information again & check the validation
    2. The customer will again input all information
  - 3a. The customer didn't choose pizza properly
    1. system can provide proper guidelines for how to choose pizza properly

7a. The system didn't show the amount

1. customer will request to show the total payable amount

7b. The system shows the wrong amount

1. Customer can cancel the order
2. Customer can re-entry all pizza info again
3. Customer send a request to the system to give the original amount

7c. Customer does not agree with the displayed amount.

1. System recalculates the cash and displays the amount.
2. System asks the user again if the cash deposited is correct.
3. If the user agrees then the steps in the main scenario continue. In case the user does not agree then the system ejects back the cash.

**Precondition:**

1. Users have gadgets and internet connections that can connect to the internet.
2. The user has created an account on the system.
3. User has selected the items to be purchased
4. To order tests from home, the user must be logged into the system.

**Post condition:**

1. Successful: The user was able to order successfully.
2. Unsuccessful: Users are unable to order due to a lack of medicine.
3. Exception: Stay on the same page.

**Use Case No: 4**

**Title: Make payment**

**Actor:** Customer, admin

**Main Success Scenario:**

1. When the customer will order the system will show a total payment slip.
2. Customer will choose cash on delivery or online payment
3. Customer choose option between bank, credit, cash
4. Customer inserts the card
5. Enter PIN if applicable
6. System checks if the card is authorized
7. Customer enters the amount
8. If the customer pays by cash, then the Customer selects deposit cash
9. System handles and updates the account balance information
10. System displays the new balance
11. System will track the order and giving tracking id for delivery
12. System confirms payment data **Extension:**

2a. Customer choose online payment but didn't add Debit Card/Credit Card/Bank/bKash/ Nagad etc

1. Customer must add his available method in the proper way

2b. Customer chooses online method successfully but has insufficient balance

1. Customer must add money to his/her available online card or method

4a. User provided card is not authorized by the bank

1. System displays failure attempt message
2. Eject the card.

5a. PIN code is authorized incorrect

1. System displays a message to reenter the PIN code

6a. card is not authorized

1. User must give authorized card and proper information

7a. Customer card has no money.

1. customer must enter the appropriate amount of money to pay

11a. order tracking id & payment tracking id did not match

1. system will provide a proper tracking id which is acceptable

**Pre Condition:**

1. Customer has a bank account/credit card/debit card
2. Customer logged on to his/her account

**Post Condition:**

1. User must order pizza
2. If the user's card is valid then he/she can pay successfully.
3. If not due to network error, log in error any types of error happened it will show unsuccessful

**Use Case No: 5****Title: Process home delivery orders**

**Actor:** customer

**Main Success Scenario:**

1. The ordering system will provide tracking id & delivery time for this order.
2. Customer must choose whether he/she wants home or physical delivery.
3. A confirmation email will be sent after schussing the order.
4. After receiving the order, another email will be sent regarding confirmation of the receiving.

**Exception:**

1a. The tracking id was not matching during the delivery time

1. The system will check and re-delivery.
2. The system will send the tracking id again through sms, mail etc

1b. The customer will determine that the order is not acceptable may be due to the estimated delivery date and will cancel the order.

1. customer will request time changing
- 2.. The customer will request that the order be canceled.
3. The system will confirm that the order has been canceled.

2a. Customer physical delivery timing may be crossing the limit of delivery time or maybe the shop is closed

1. System will provide their closing time for coming earlier

3a. no confirmation email sent to the customer

1. customer request for a confirmation mail
2. system send confirmation mail

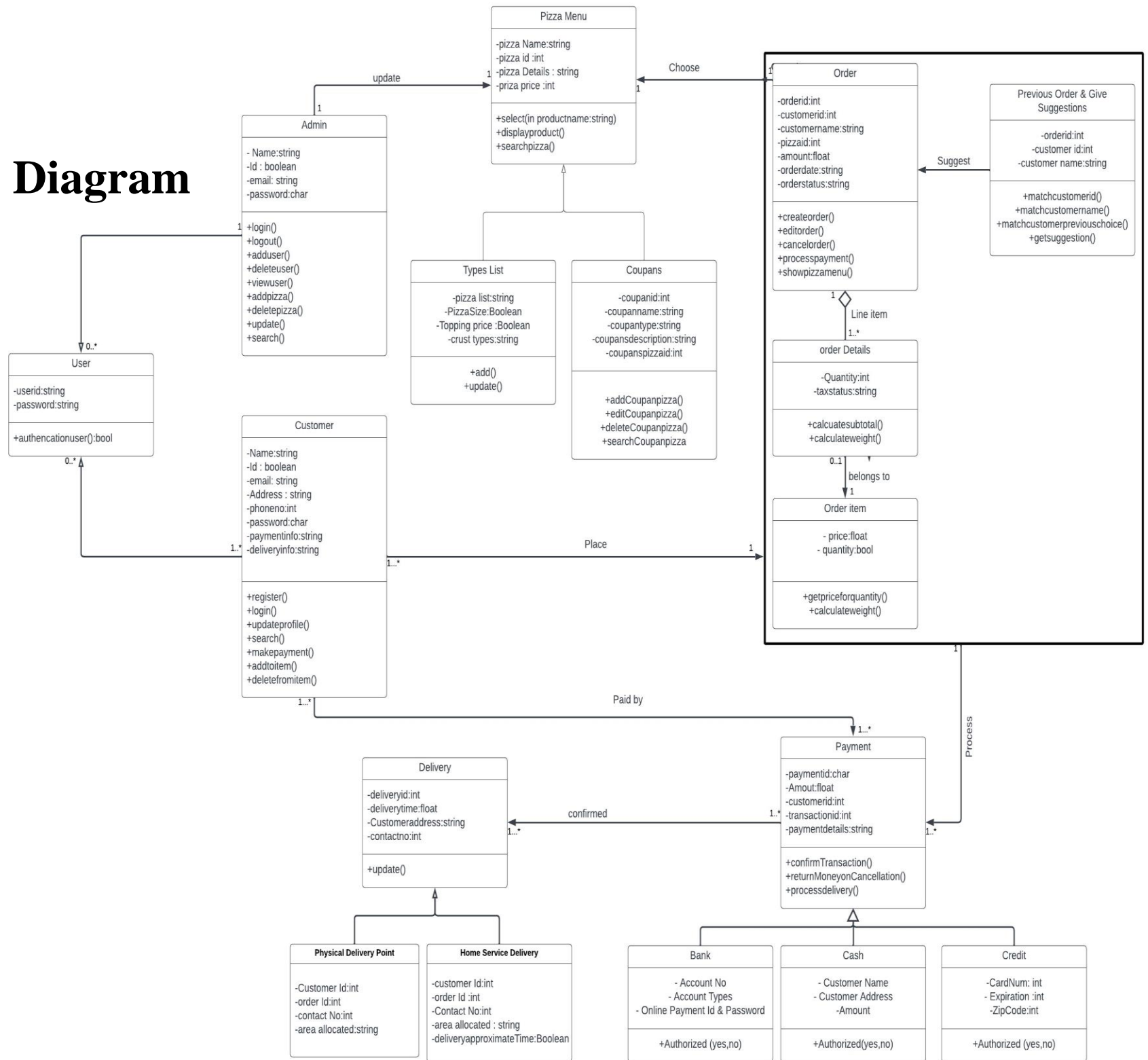
4a. customer did not back confirmation for receiving

1. sytem request for a confirmation for receiving

2. Customer send confirmation mail

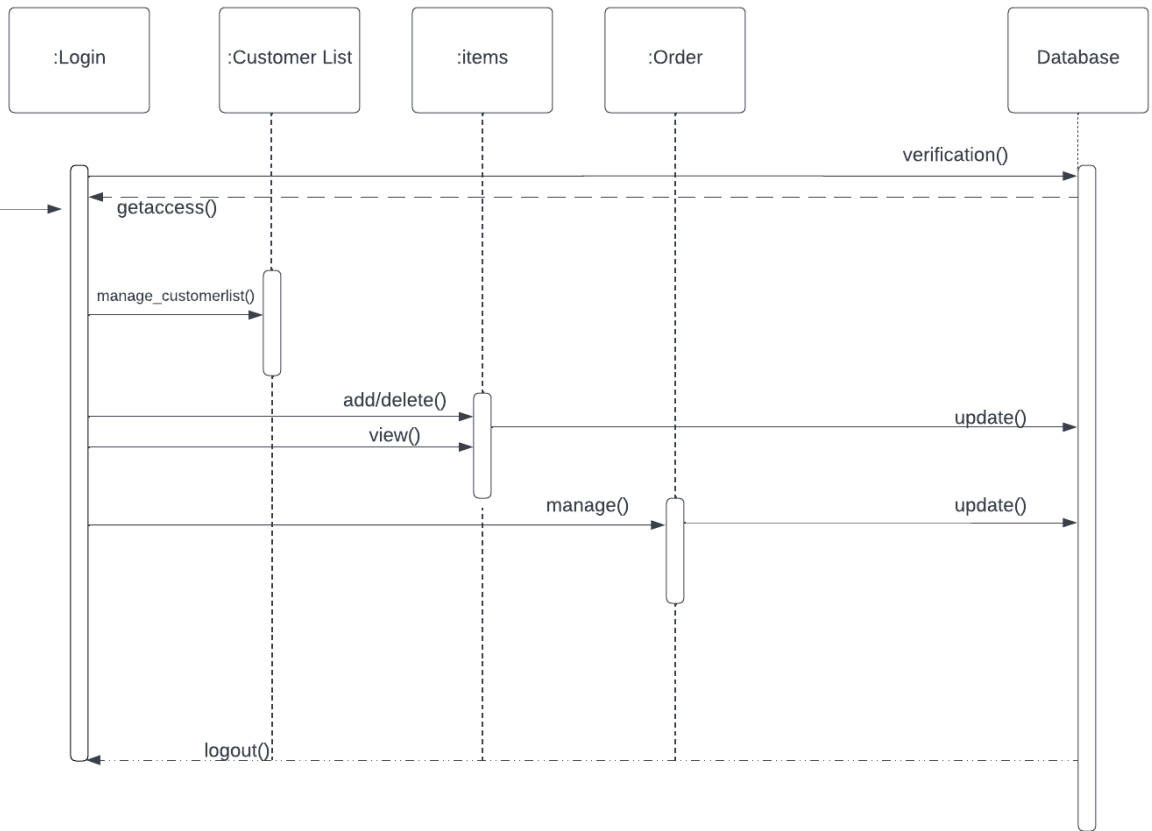


# Class Diagram





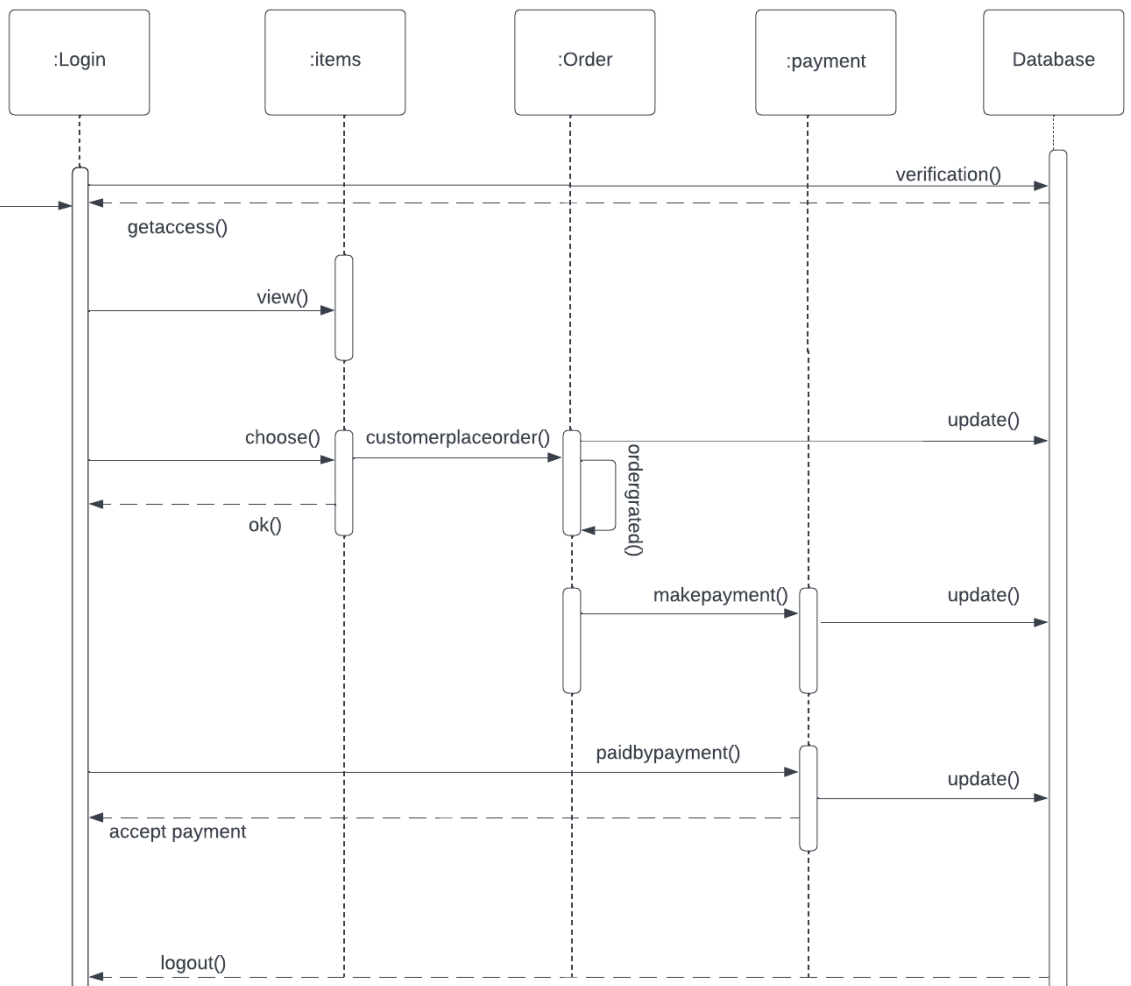
Admin



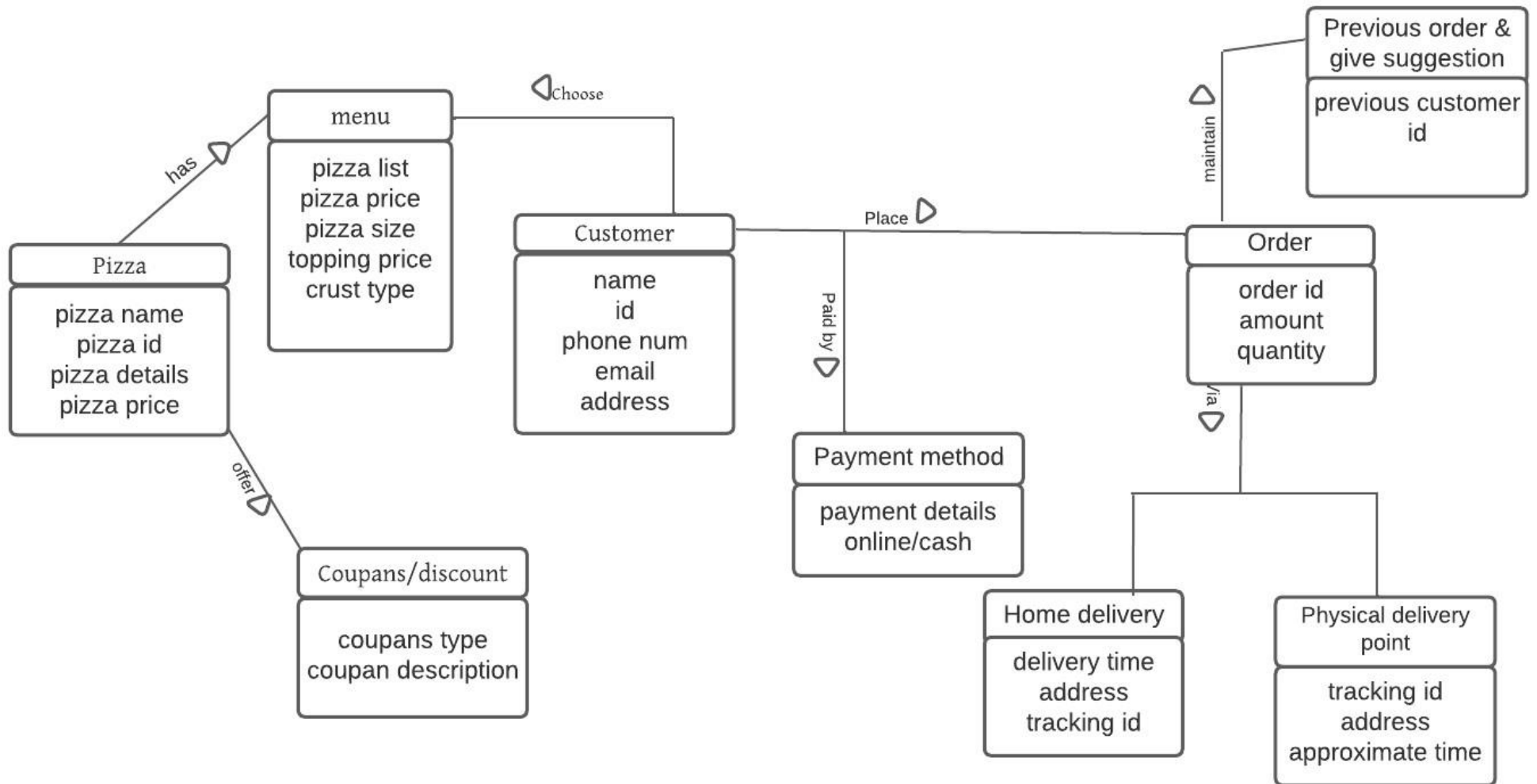
## Sequence Diagram



customer



# Domain Model



# Source Code

## GitHub:

<https://github.com/Raihan-Khan-CS/online-pizza-shop.git>

## Google Drive:

[https://drive.google.com/drive/folders/1d6ISGh8QureoV3lhcbY60vI0\\_8AUSxaG](https://drive.google.com/drive/folders/1d6ISGh8QureoV3lhcbY60vI0_8AUSxaG)