

ISE2 Component 1.

Q.1 What is sequence diagram in UML? Build Sequence diagram for Amazon online shopping (Place order, Bill payment, Parcel Tracking and Delivery)

→ 1. Sequence diagram is a unified modelling language diagram that illustrates the sequence of message between object in interaction.

2. Sequence diagram consists of group of object that are represent by life lines and the messages that they exchange over time during the interaction.

3. Sequence diagram shows the sequence of message passed between objects.

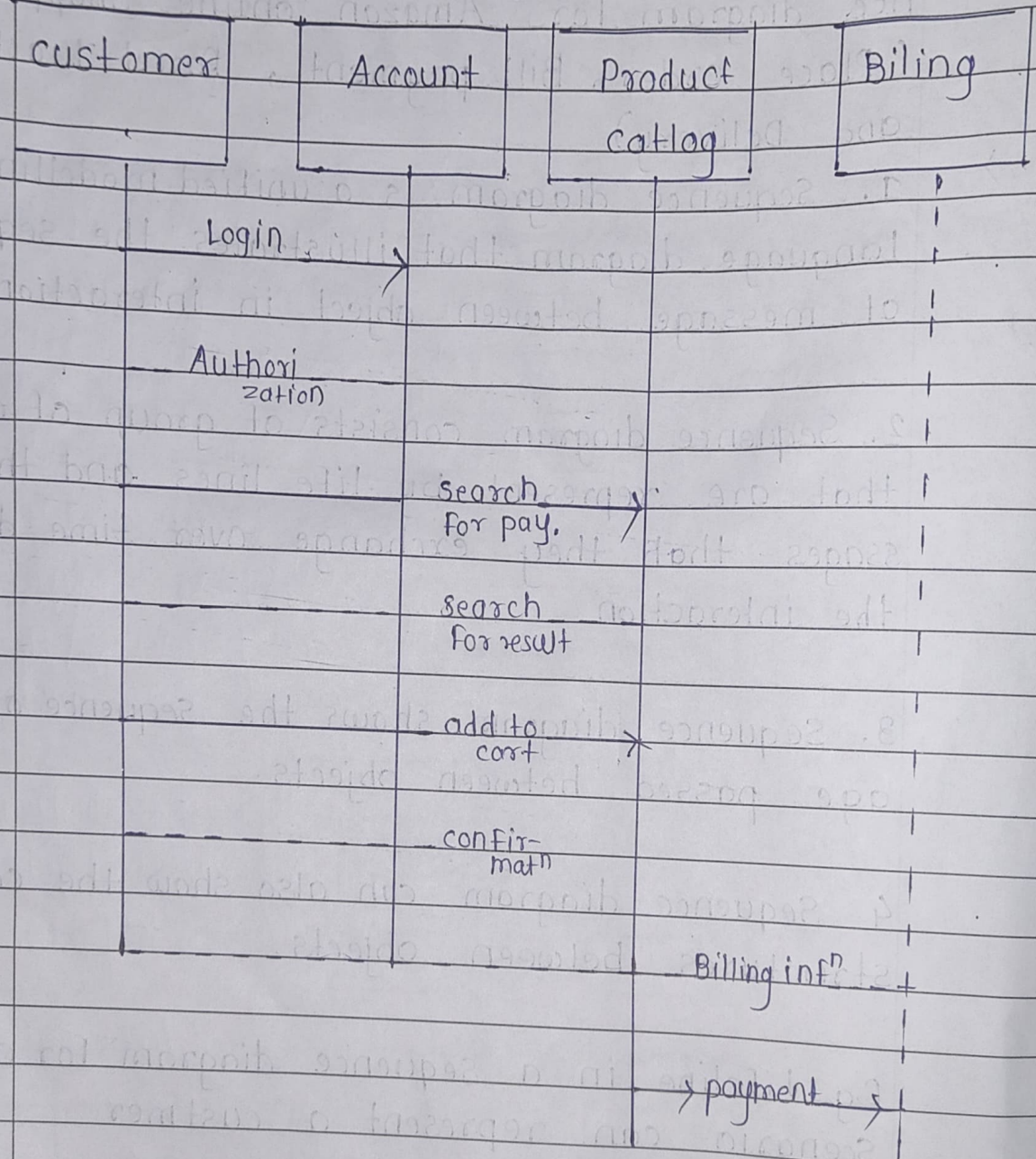
4. Sequence diagram can also show the control structures between objects.

E.g Lifeline in a sequence diagram for a banking Scenario can represent a customer.

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Q.1 Sequence diagram



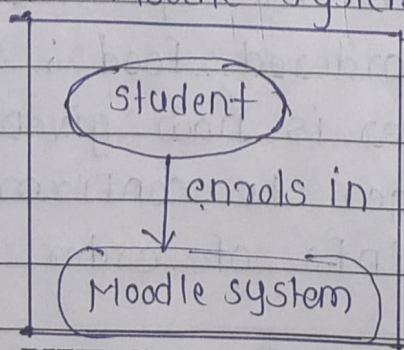
Q.2. What is use case diagram in UML? Design use case diagram For student and Moodle System. Describe use cases added in your diagram.

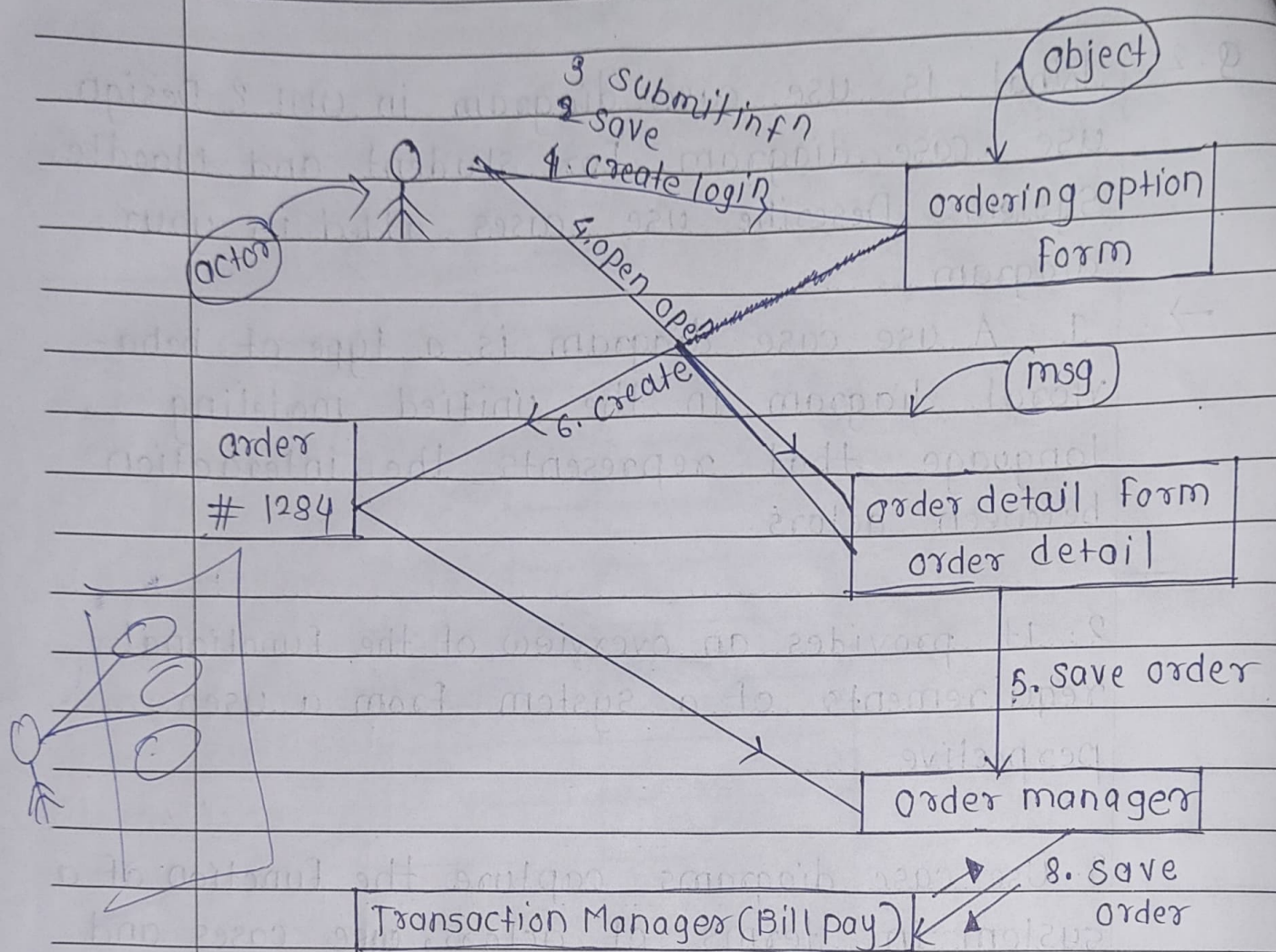
→ 1. A use case diagram is a type of behavioral diagram in the unified modeling language that represents the interaction between actors.

2. It provides an overview of the functional requirements of a system from a user perspective.

3. Use case diagrams capture the function of a system in terms of actors, use cases and their relationships.

4. Here is a design of a use case diagram For a student and Moodle System.





In collaboration diagram for online food order in zomato the requirement is use should login to zomato app. Submit all the infoⁿ order the food from the option form write the all details of ordered food ; Save the order.

The order is now given to the respective order manager to confirm the bill payment get the info of order for bill payment.

Q3

What is collaboration diagram in UML Design collaboration diagram For any online food order application like zomato or swiggy. Describe your collaboration diagram

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1. In UML diagrams a collaboration is a type of structured classifier in which roles and attributes co-operate to define the internal structure of classifier.
2. We use collaboration when we want to define only the roles and connections that are required to accomplish a specific goal of the collaboration.
3. Collaboration describes object interaction organised around the objects and their links to organise each other.
4. Focus on exchange of message between objects.
 - i. collaboration diagram is semantically weak than sequence diagram.

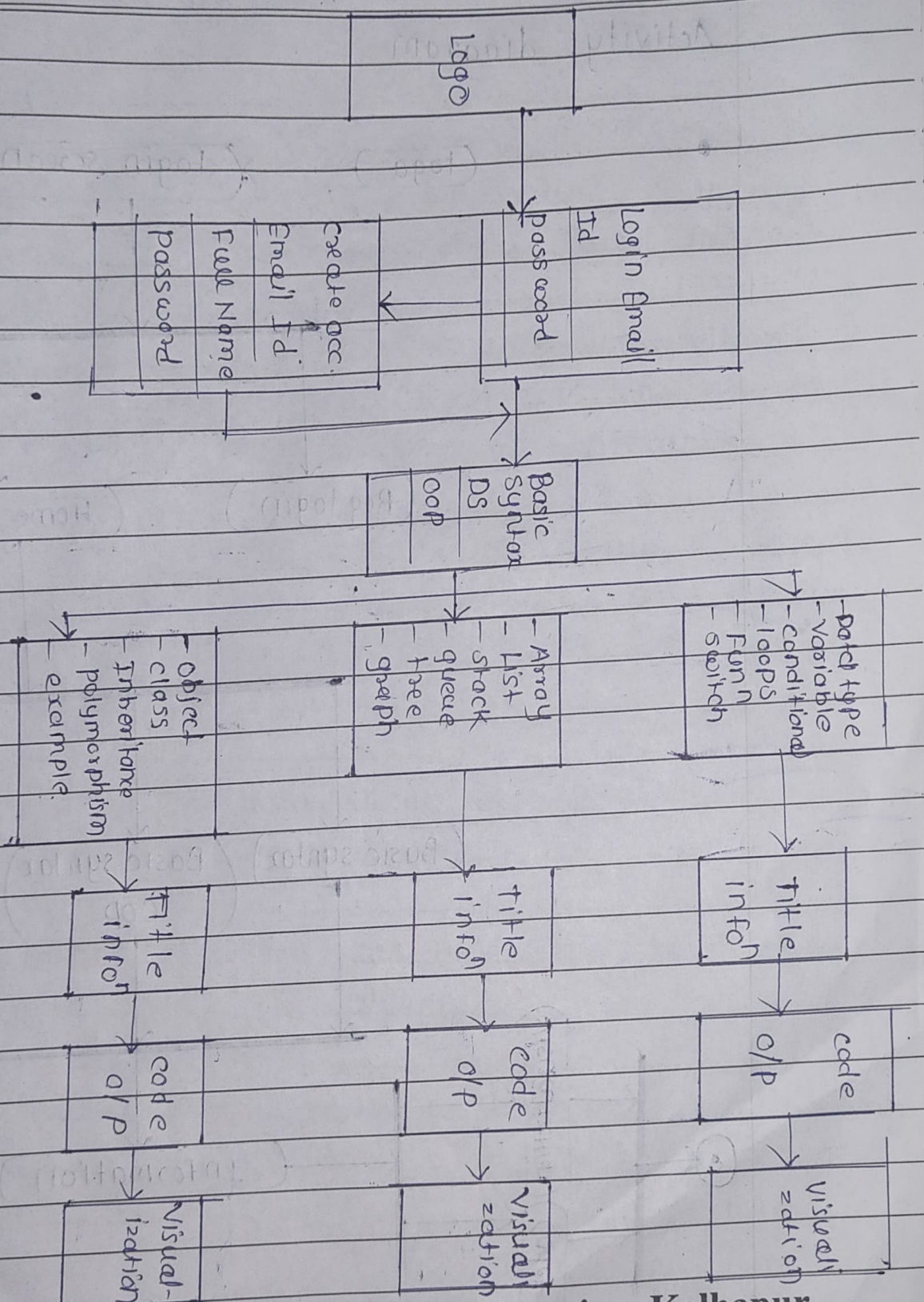
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ii. The message given with the numbering. It is also called as communication diagram through their association.

5. Appears during analysis phase.

6. Enhanced during design phase.



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Activity diagram

