

## SE-EXPT 8

Aim :- Develop a Sequence and Collaboration Diagram For the Project.

### Theory :-

Sequence Diagram :- The Sequence Diagram Represents the flow of messages in the system and is also termed as an event Diagram. It helps in envisioning several Dynamic scenarios. It portrays the communication b/w any two lifelines as a time ordered sequence of events.

In UML, the lifeline is Represented by a vertical Bar, whereas the message flow is Represented by a vertical Dotted line that extends across the bottom of Page.

### Purpose of Sequence Diagram :-

- (a) To model high level Interaction among active objects within a system
- (b) To model interaction among objects inside a collaboration Realizing a Use Case.
- (c) It either models generic interactions or some certain instances of interaction

### Notations in Sequence Diagram :-

- (a) Lifeline
- (b) Actor.
- (c) Activation
- (d) Messages
- (e) Note.



Collaboration Diagram :- The collaboration Diagram is used to show the Relationship between the objects in a system. Both the Sequence and the Collaboration Diagram Represent the same information but Differently.

Instead of showing the flow of messages it depicts the Architecture of the object Residing in the System as it is based on OOP. The collaboration Diagram which is also known as Communication Diagram, is used to portray object's architecture in the System.

Notations of Collaboration Diagram:-

1. Objects.
2. Actors
3. Links.
4. Messages.

Conclusion :- Hence we have studied collaboration and Sequence Diagram and implemented same for our project.