

Difference between Sequence diagram and Collaboration diagram

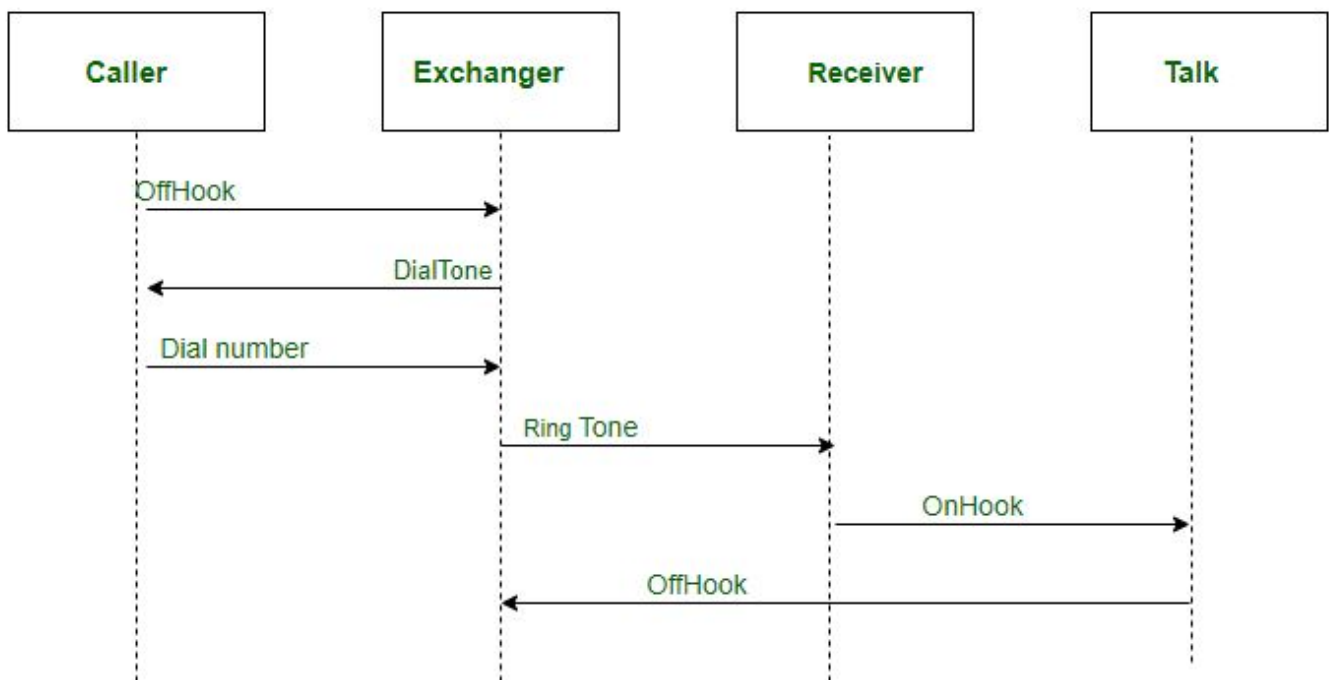
GeeksforGeeks

Last Updated : 28 Dec, 2023



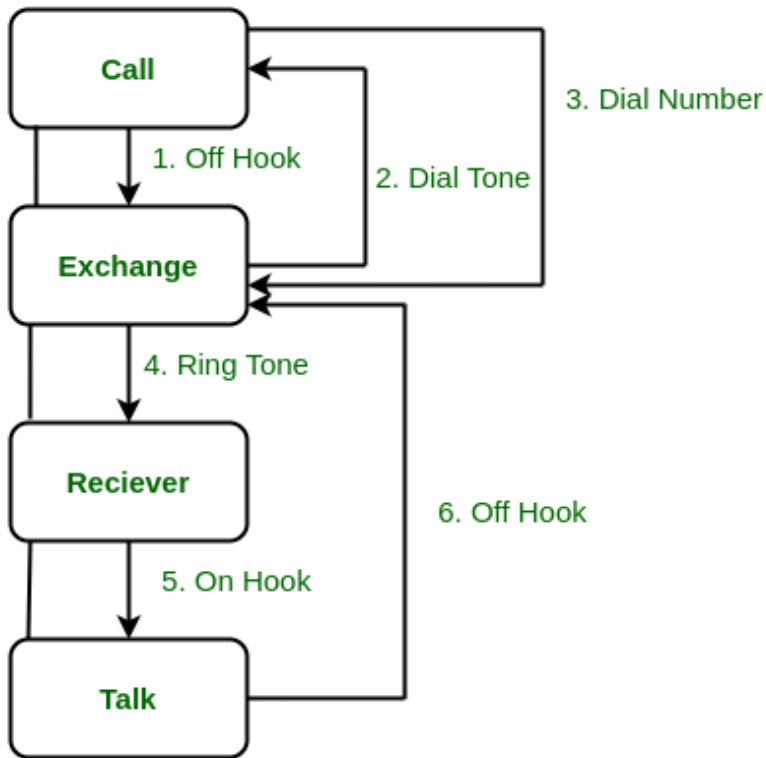
A [Sequence diagram](#) is an interaction diagram that details about the operation that is carried out. The sequence diagram captures the interaction between the objects in the context of collaboration. Sequence diagrams are time focused and they show the order of the interaction visually by using the vertical axis of the diagram to represent time.

Example:



Collaboration Diagram represents the interaction of the objects to perform the behavior of a particular use case or a part of use case. The designers use the Sequence diagram and Collaboration Diagrams to define and clarify the roles of the objects that perform a particular flow of events of a use case.

Example:



Similarities Between Sequence and Collaboration Diagram

1. In Unified Modelling Language both the sequence diagram and collaboration diagram are used as interaction diagrams.
2. Both the diagrams details about the behavioral aspects of the system.

Differences Between Sequence and Collaboration diagram:

Sequence Diagrams

The sequence diagram represents the UML, which is used to visualize the sequence of calls in a system that is used to perform a specific functionality.

The sequence diagram are used to represent the sequence of messages that are flowing from one object to another.

The sequence diagram is used when time sequence is main focus.

The sequence diagrams are better suited of analysis activities.

Collaboration Diagrams

The collaboration diagram also comes under the UML representation which is used to visualize the organization of the objects and their interaction.

The collaboration diagram are used to represent the structural organization of the system and the messages that are sent and received.

The collaboration diagram is used when object organization is main focus.

The collaboration diagrams are better suited for depicting simpler interactions of the smaller number of objects.

Are you a student in Computer Science or an employed professional looking to take up the **GATE 2025 Test**? Of course, you can get a good score in it but to get the best score our [GATE CS/IT 2025 - Self-Paced Course](#) is available on GeeksforGeeks to help you with its preparation. Get comprehensive coverage of all topics of GATE, detailed explanations, and practice questions for study. Study at your pace. Flexible and easy-to-follow modules. Do well in GATE to enhance the prospects of your career. Enroll now and let your journey to success begin!