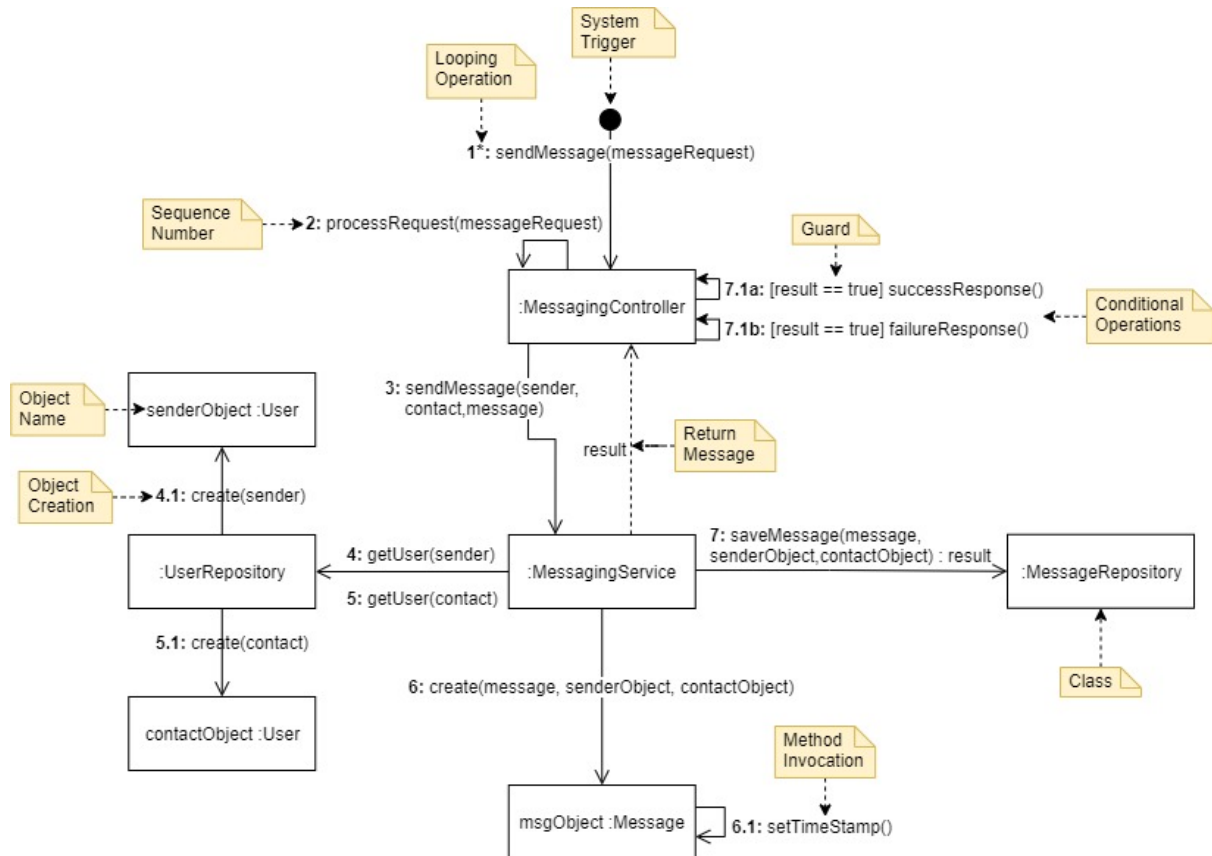


Notation Reference for a Communication Diagram

Example: Back-end System for a Messaging Application



Description:

1. The back-end system is responsible for processing incoming requests from a mobile messaging application.
2. While a user is messaging someone, the front-end application will make a series of message requests to the back end.
3. The MessagingController is the primary point of contact for incoming messages and will process the incoming requests to obtain the sender, their contact and their message.
4. The controller will then forward this data to the MessagingService class.
5. In order to obtain details about the sender and contact, the MessagingService will contact the UserRepository, a class the directly interfaces with the database.
6. Finally, the MessagingService will create a Message and use the MessageRepository to store all captured data in the database.
7. Based on the outcome of the operation, the MessagingService will return a success or failure response to the controller.