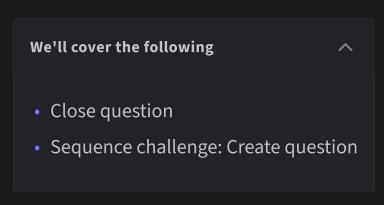
Sequence Diagram for Stack Overflow

Visualize the sequence diagram for closing a question and practice the concepts with a challenge.



Sequence diagrams are a great way to understand the interactions between different entities and objects in the system. There can be different sequence diagrams that we can create for Stack Overflow. In this lesson, we will create sequence diagrams for the following two interactions: • Close question: A user votes to close a question authored by a different user.

- **Sequence challenge:** A user creates a question and adds a bounty.
- **Close question**

The sequence diagram for closing a question should have the following actors and objects that will interact with each other:

• Actors: User and Author

- Here are the steps in the close question interaction:

• Object: Question

1. A user votes to close a question with some remark. 2. If the user is a moderator:

- I. The question is closed.
- 3. Else if they are a regular user:
 - I. If the user's reputation is greater than or equal to 3000:
 - i. A close vote is added.

II. The author of the question is notified about the question.

ii. If there are 3 close votes, the question closes, and the author is notified. II. Else if the user's reputation is less than 3000:

sd close question

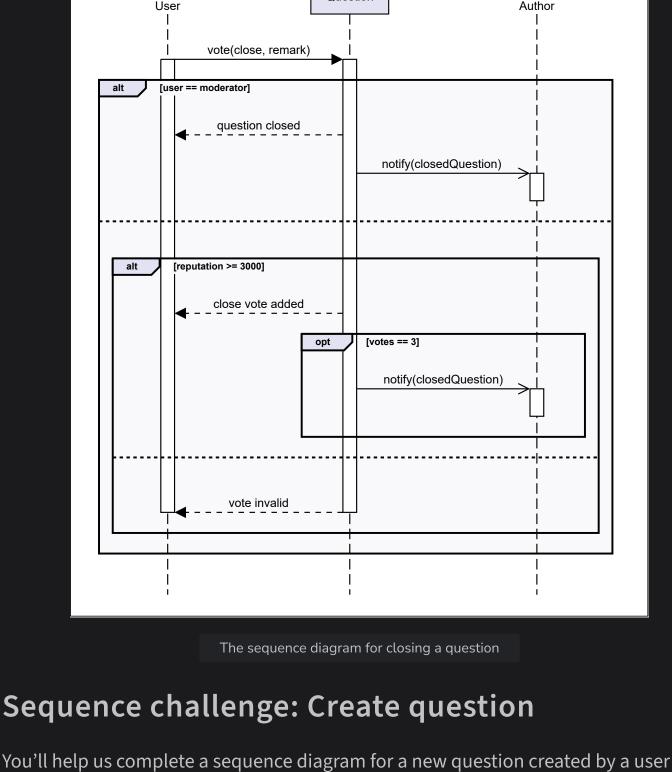
sequence diagram is given below:

sd create question

- i. The vote is considered invalid.
- Overflow is provided below:

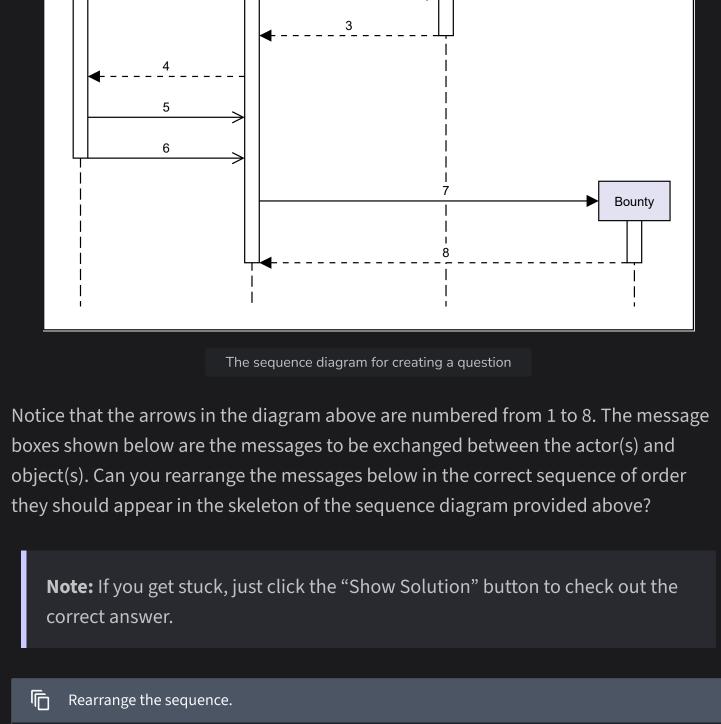
Question

Based on the order above, the sequence diagram for closing a question in Stack



where the user adds a bounty to the question. A skeleton of the create question

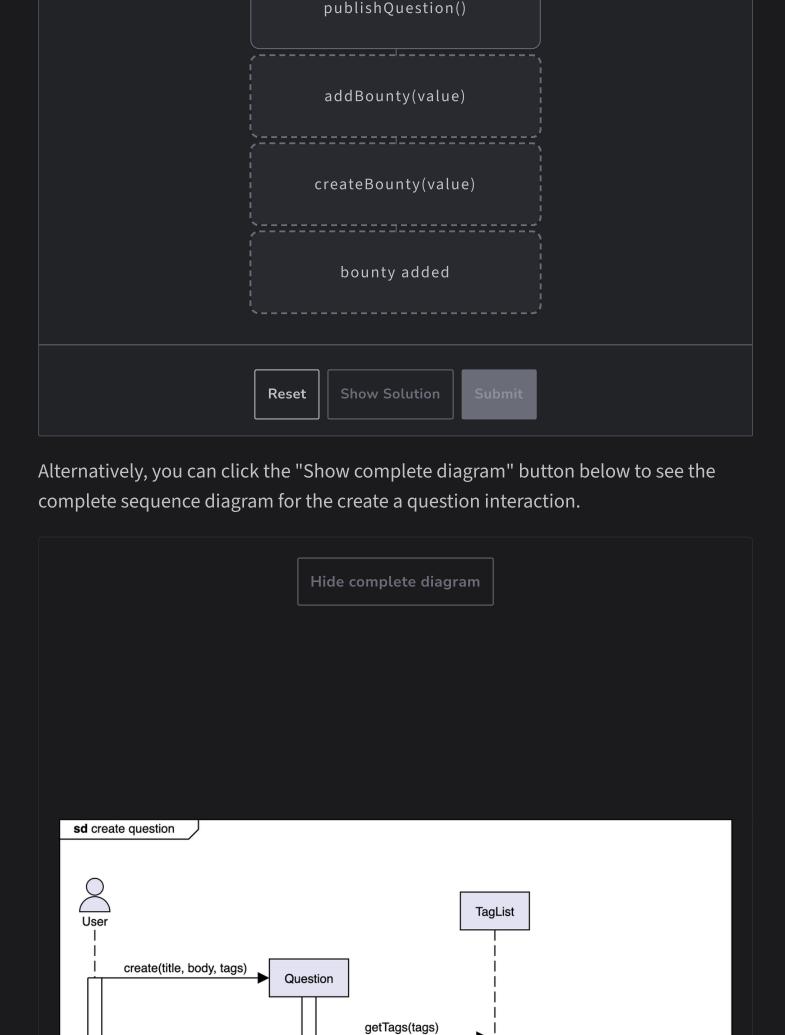
TagList User Question



return tags -----question created

create(title, body, tags)

getTags(tags)



Next, let's look at the activity diagrams for Stack Overflow to understand the control

return tags

createBounty(value)

bounty added

Bounty

Complete

question created

publishQuestion()

addBounty(value)

flow of the system.

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