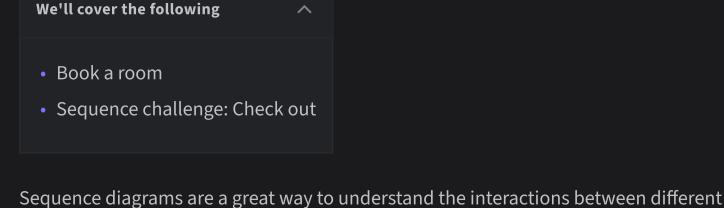
## **Sequence Diagram for the Hotel Management System**

Create a sequence diagram for online room booking in the hotel management system and solve a challenge.



entities and objects in the system. There can be different sequence diagrams that we can create for our hotel management system. In this lesson, we will create sequence diagrams for the following two interactions: • **Book a room:** The guest books a hotel room online.

- Book a room

The sequence diagram for the room booking should have the following actors and

• **Sequence challenge:** The guest checks out of their room at the reception.

## • Actor: Guest

• Objects: Catalog, Booking, Room, and Payment

System

Here're the steps in the book room interaction:

objects that will interact with each other:

1. The guest searches for a room based on some price and style.

3. The guest selects a room they wish to book. 4. If the room is available:

2. The catalog returns a list of rooms.

- I. The guest creates a booking for the room.
- II. The booking fetches the booking price for the room.
- III. The guest is informed that the booking is ready for payment.
- V. The payment is processed, and the guest is informed of the status.
  - VI. If the payment is successful:

VII. Else if the payment is unsuccessful:

i. The guest is informed that the payment has succeeded.

IV. The guest initiates a payment against the booking price.

- ii. The system is informed that payment is complete. iii. The system updates the room status to reserved.
- i. The guest is informed that the payment has failed. 5. Else if the room is unavailable:

I. The system informs the guest that the room is unavailable.

Based on the order above, the sequence diagram of booking a room in a hotel

Catalog

searchRoom(price, style)

return roomList

sd check out

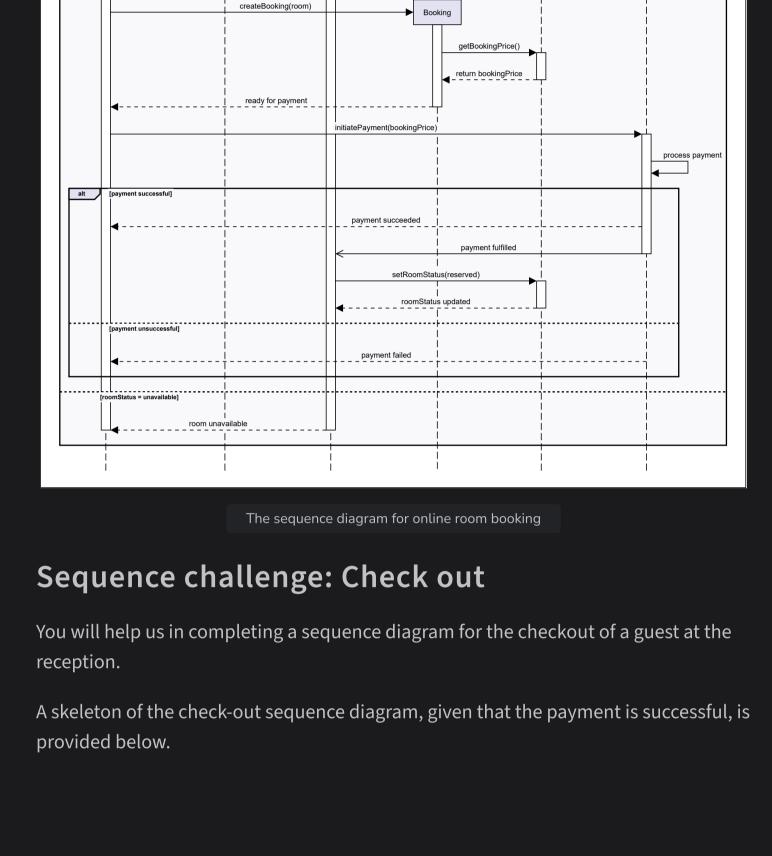
management system is given below:

System

Room

Payment

**Payment** 



Room

The sequence diagram for checking out of the hotel

Notice that the arrows in the diagram above are numbered from 1 to 10. The message

boxes shown below are the messages to be exchanged between the actor(s) and

they should appear in the skeleton of the sequence diagram above?

correct answer.

Rearrange the sequence.

checkout(roomKey)

object(s). Can you rearrange the messages below in the correct sequence of order

**Note:** If you get stuck, just click the "Show Solution" button to check the

getServiceCharges() return charges

checkout(roomKey)

requestPayment(charges)

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initiatePayment(charges) process payment payment complete updateRoomStatus(checkedOut) -----roomStatus updated checkout successful Reset Alternatively, you can also click the "Show complete diagram" button to view the complete sequence diagram of the check-out interaction. Hide complete diagram sd check out

getServiceCharges()

return charges

Room

**Payment**