

Sequence Diagram for the Movie Ticket Booking System

Visualize the sequence diagrams for the creation and payment of a booking, and practice the concepts of sequence diagrams.

- Create a booking

- sequence diagram is a great way to understand the interactions between the entities and objects in the system. There

- **Create a booking:** The customer creates a booking for a show.
- **Payment for the booking:** The customer pays for the booking.
- **Sequence challenge:** The customer cancels their booking.

- **Actor:** Customer

- System

Here're the steps of the interaction to create a booking interaction:

1. The customer searches for a movie from the catalog

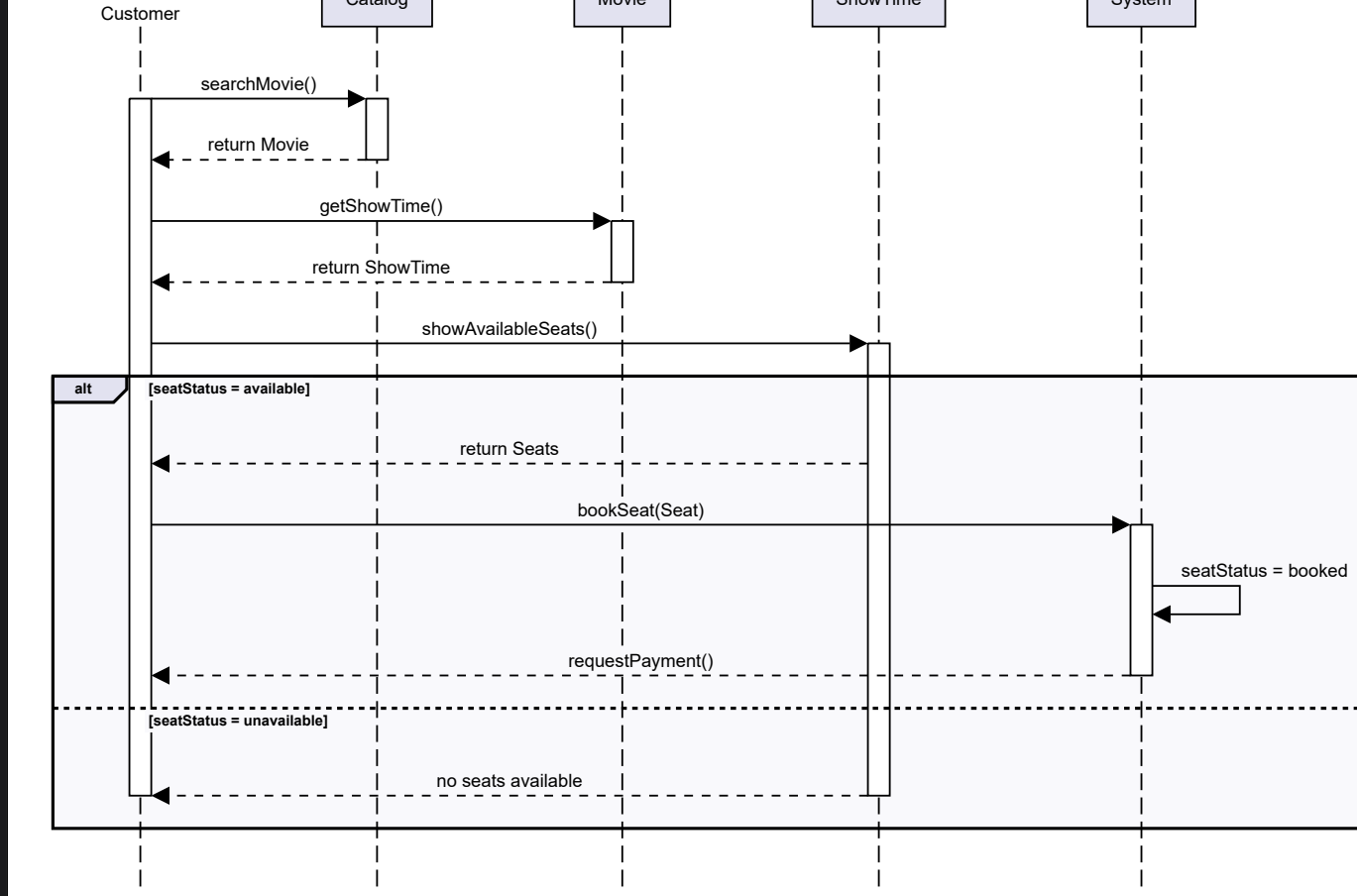
2. The catalog returns the required movie.
3. They request show times for the movie
4. The available show times for the movie

6. If seats are available:

- 1. The customer receives a list of available seats

- II. The customer books their desired seats using the system.
 - III. The seat status is set to book.
 - IV. The system requests payment against the booked seats from the customer.
7. Else if the seats are not available:
- I. The customer is informed that no seats are available.
- Based on the order above, the sequence diagram for creating a booking in the movie

sd create booking



The sequence diagram to create a booking

Payment of a booking

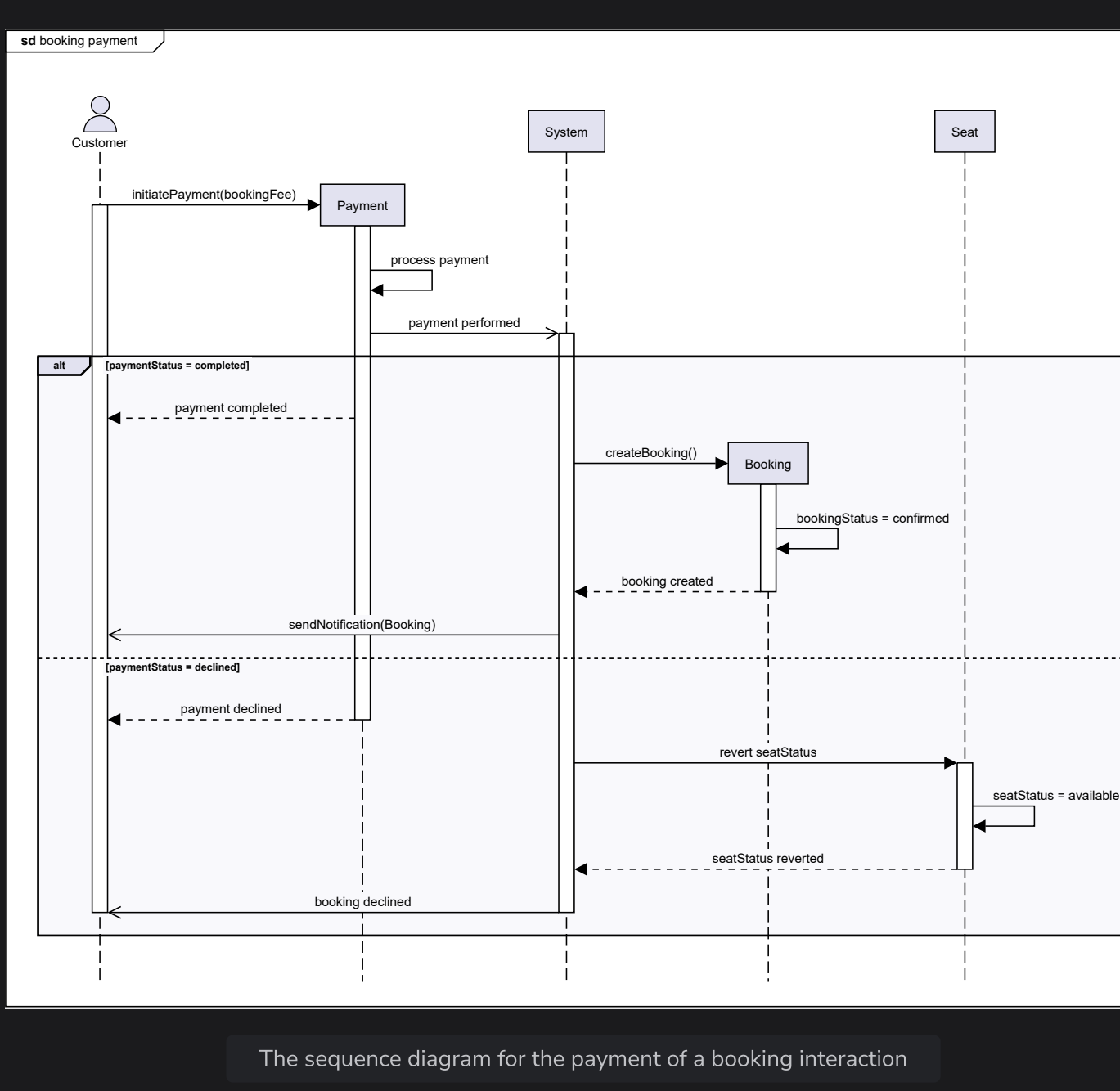
The sequence diagram for payment of

- **Actor:** Customer

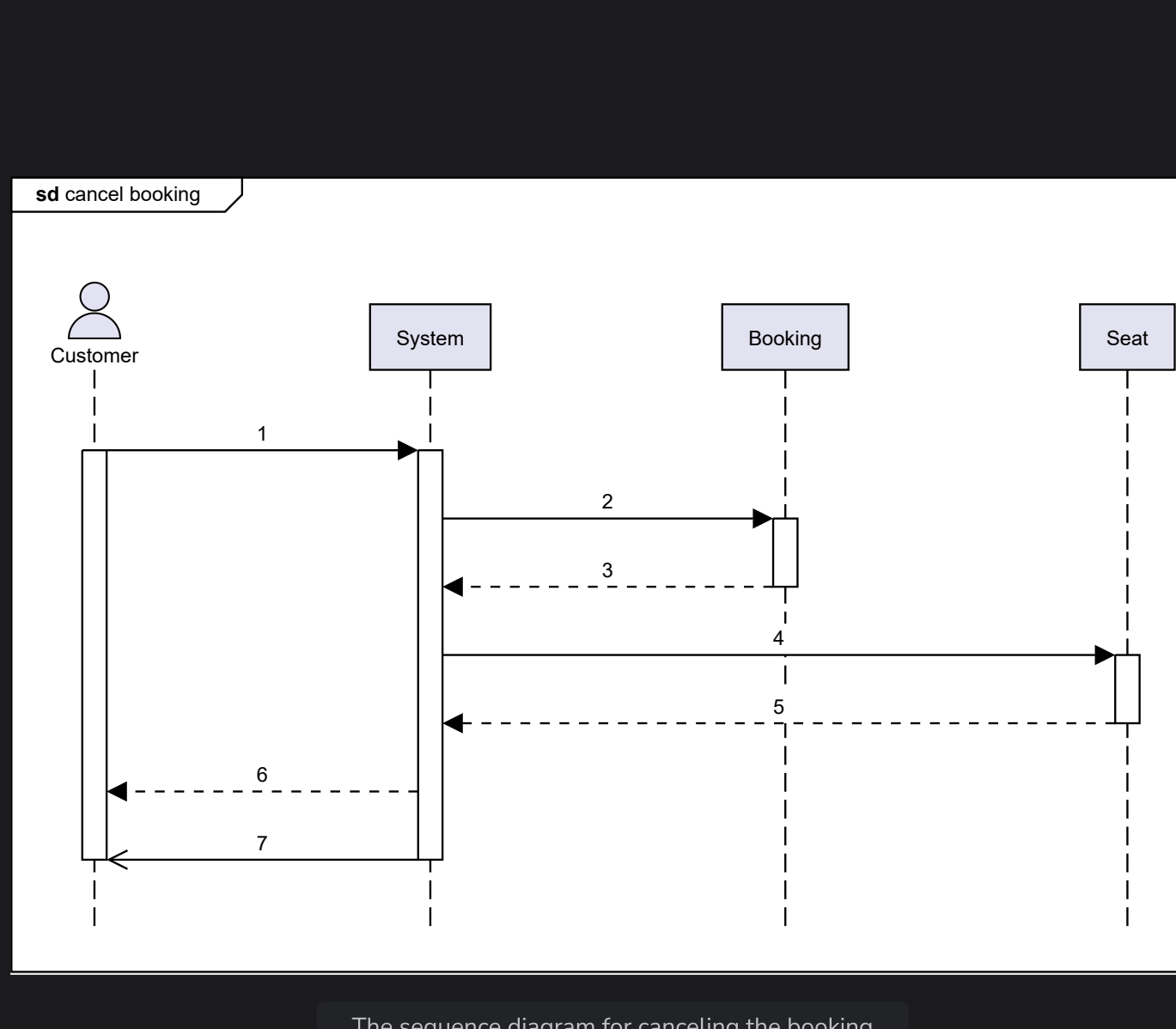
- System
- Here are the steps in the pa

2. The payment processes the payment and informs the
3. If the payment is complete:

- I. The payment informs the customer about the completed payment.
 - II. The system creates an object for the booking.
 - III. The booking status is updated and the system is informed.
 - IV. The system sends a notification to the customer containing the booking information.
4. Else if the payment is declined:
- I. The payment informs the customer about the declined payment.
 - II. The system requests to revert the seat status.
 - III. The seat status is updated to available and returned to the system.
 - IV. The system informs the customer that the booking is declined.
- Based on the order above, the sequence diagram for payment of a booking in the movie ticket booking system is given below.



Challenge: Cancel booking



in the diagram above are numbered from

Note: If you get stuck, just click the “Show Solution” button to check the correct answer.

