

**The system:** Cinema tickets

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## **Requirements:**

### **Functional Requirements:**

The system must:

- React to every visitor who tries to buy tickets.
- React to every potential booker call.
- Accept money from visitors.
- Have always enough money for exchange purposes.
- Unbook every booked seat at 30 minutes before the start of the film.

### **Non-Functional Requirements:**

#### **Usability Requirements:**

The system should:

- Include an employee or several employees (who can also be the call managers), at least one computer with a cinema seats booking and selling program, the cinema server.

#### **Reliability Requirements:**

The system should:

- Be available 8:00-23:00 everyday.
- Have a zero failure rate

#### **Performance Requirements:**

The system should:

- Maintain a lag time of no more than 3 seconds.
- Contain employees who speak Ukrainian at least with B2 level.

#### **Supportability Requirements:**

The system should:

- Be presented "as is" with no variations or customization options.

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## **Use Cases:**

**Title:** Buy a ticket or a bunch of tickets

**Primary Actor:** Visitor

**Success Scenario:**

1. The visitor asks for a ticket or a bunch of tickets.
2. The employee checks if these tickets are available for buying.
3. The employee sells the tickets (or the only ticket).
4. The employee specifies the status of the seats related to tickets as "Sold"

**Title:** Book a seat or a bunch of seats

**Primary Actor:** Booker

**Success Scenario:**

1. The booker calls cinema call manager (employee).
2. The booker asks for booking a seat or a bunch of seats.
3. The employee checks if these seats are available for booking.
4. The employee changes status the seats to "Booked" (or the only seat) and specifies the bookers phone number (reserves these seats by the specific number).

**Title:** Get the tickets for the booked seats

**Primary Actor:** Visitor

**Success Scenario:**

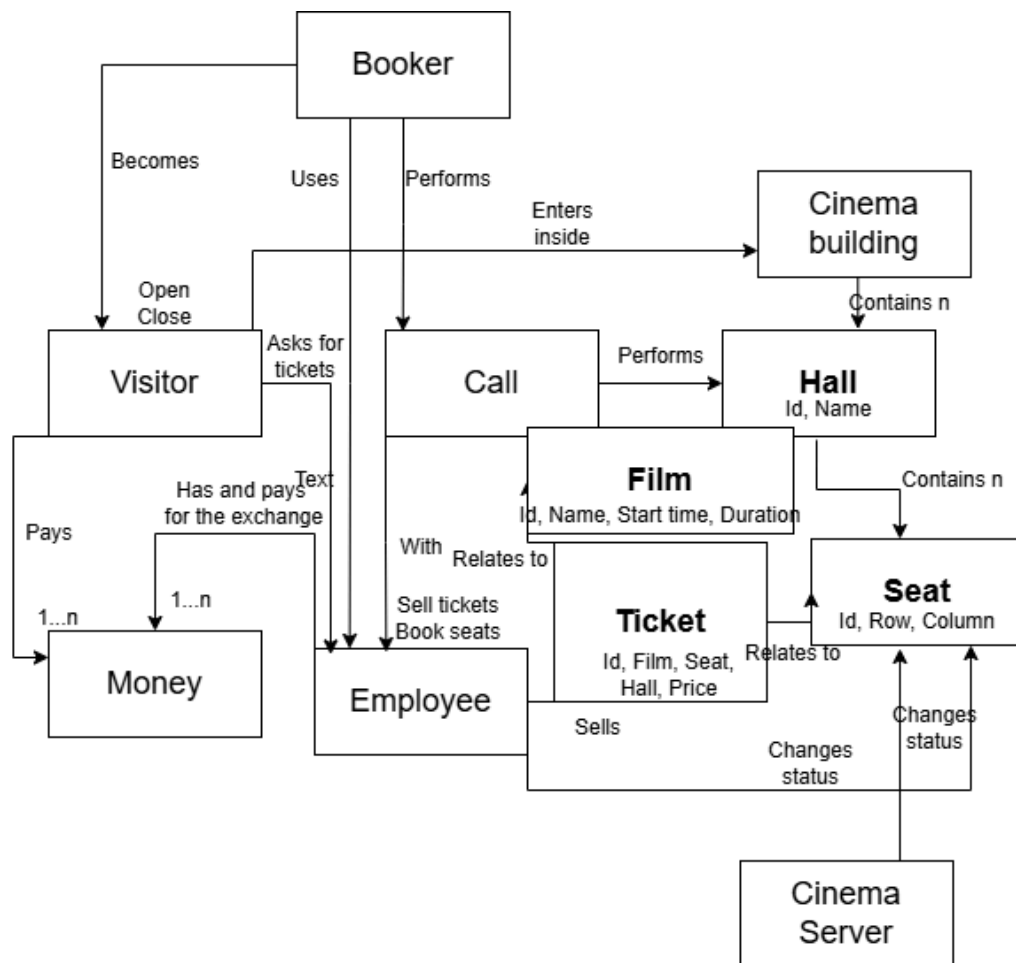
1. The visitor asks for a ticket or a bunch of tickets for seats that are booked by him.
2. The employee checks the status of the seats.
3. If the status is "Booked" then the employee asks for a phone number.
4. The visitor tells the phone number.
5. If the seats are related to the phone number the employee sells the tickets (or the only ticket)
6. The employee specifies the status of the seats related to tickets as "Sold"

**Title:** Unbook all booked seats in 30 minutes before the start of the film

**Primary Actor:** The cinema server

**Success Scenario:**

1. If it is 30 minutes before the start of the film, then the cinema server unbooks all the booked seats (changes status to "Free").



Note that **Bold** entities are the key ones and to be represented in ER diagram

**ER diagram:**

