

# CINEMA TICKETS

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## FUNCTION OVERVIEW AND USE CASES

When attending the cinema, you must reserve/book a place. In order to book the ticket, you have two options, you either do it online or at the counter directly in the cinema, however, both interact with the same system. If done at the cinema, a generic user would be used.

At the cinema, there are several movie options, these movies have different ratings, actors, and type of movie.

To watch the movie, you have several screens to select from, sometimes the movie only plays in one of them but sometimes, specially for blockbuster movies, you may have it displaying in more than one screen.

Each theater has a different capacity, meaning different number of screens available and each screen has a different number of seat capacity, even though some may have the same size.

When booking the movie, you need to make sure which seats are available in the theater in which the movie is going to be watched and make sure that the time corresponds to when the movie is going to be playing in the theater. You should be able to see the movies available in the selected theater and their schedule.

Ticket prices can vary depending on the day of the week and the time of the day.

## ENTITIES

- **Booking system:** The booking system gives access to the customers, which can be many, and can display the movies available and the cinemas and screens where it's being played. This includes information about the movie. Pricing will be assigned to the booking of the movies, depending on the day, time of day, location and movie.
- **Customer:** The customer has access to the booking system, either directly or through someone at the theater, he has a username and password and when registering in the system, provides some personal information. When registered, he can make reservations for movies in any theater, for any available movie in any available schedule.
- **Movie:** The movie is the subject of the reservation, the system provides information related to the movie itself, such as its actors, directors, length, rating and other relevant data. Information from the movie, such as duration, will be used for scheduling in the available time slots for the theater and its screens.
- **Cinema:** The cinema is comprised of several screens where the movies are displayed. The Cinema has a specific location and it's the physical space where the different screens that project movies are located.
- **Screen:** This is the specific location inside the cinema where the movie is displayed. It has the physical location of the reservation.

# ER Diagram Movie tickets

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