

# MyCinema - application description

## Overview

MyCinema is an application that deserves the management of a cinema. The entities stored in the database are:

- actors
- movies
- rooms (it refers to cinema rooms)
- movies schedule (the scheduling of the movies in different rooms, at various dates)
- tickets
- orders
- users
- authorities

The next image displays the database diagram, to illustrate the relations between the above mentioned entities:

- an actor can play in multiple movies and a movie has more actors;
- we can schedule more movies in a cinema room and a movie can be scheduled in more rooms over the time;
- an user can place more orders;
- an user can have more roles;
- an order can contain one or more tickets.



- add a movie, providing relevant information about it: name, description, genre, duration, actors list (ADMIN)
  - edit movie details (ADMIN)
  - schedule a movie to available rooms at specified date and time - if the room doesn't exist / is not available at the requested time, a corresponding exception is thrown (ADMIN)
- users management:
  - register on the platform
  - login on the platform
- orders management:
  - place an order by specifying details about the scheduled movie (movie id, cinema room id, date, hour) and number of tickets - if the details about the movie are not correct or the number of tickets requested is greater than the number of available seats, a corresponding exception will be thrown (GUEST)
  - it also includes ticket generation: for every reservation, the tickets are generated in order from the last ticket sold for the corresponding movie (if the last one was on row 7, seat 15, the next one will be row 7, seat 16, and so on until the end of the row)

The source code of the project is available on [GitHub](#).