

MyCinema - application description

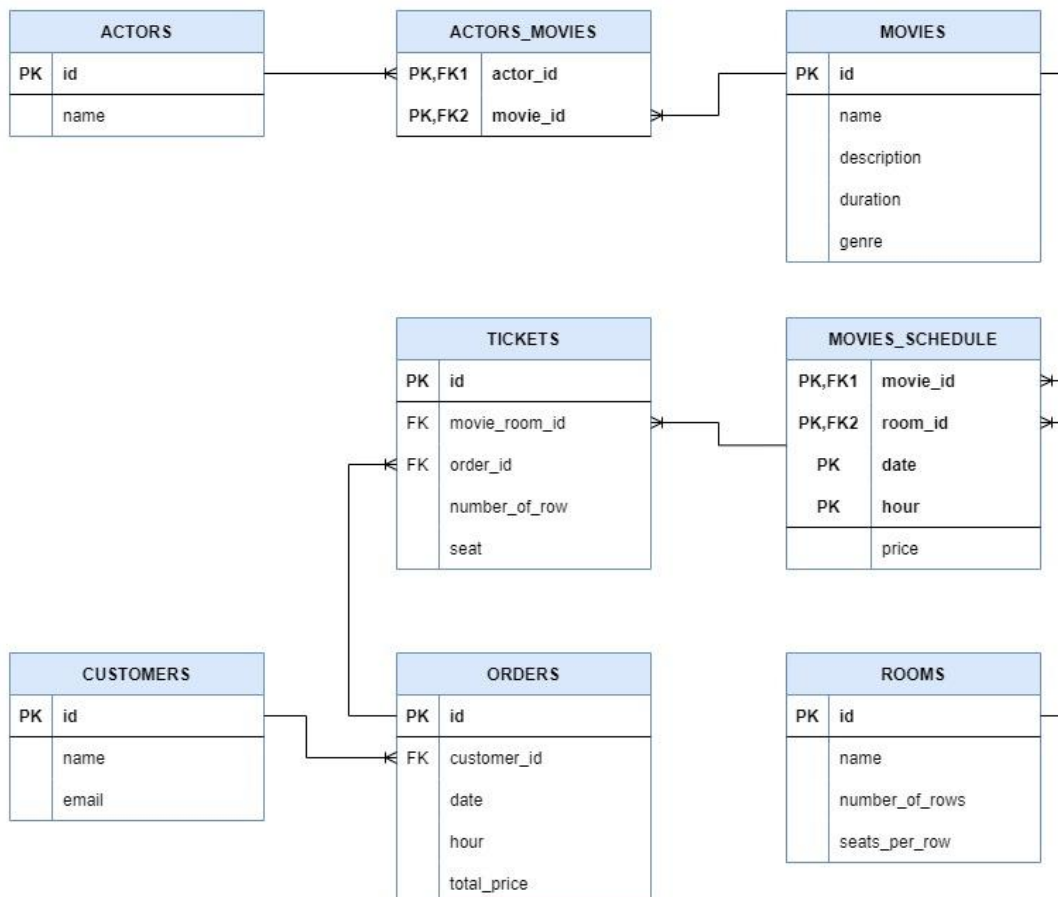
Overview

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
- customers

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;
- a customer can place more orders;
- an order can contain one or more tickets.



Features description

In this section, the main features provided by the application are described:

- cinema rooms management:
 - add a cinema room
 - edit details of a cinema room
 - view all cinema rooms saved in the database
 - in case of adding or editing, the application ensures that the name of the cinema room isn't already used, otherwise a conflict exception will be thrown
- actors management:
 - add an actor
 - view all actors
 - edit details of an actor
 - delete an actor - only if he is not already on the actors list of a movie
 - as the above case, the name of the actor must be unique
- movies management:
 - add a movie, providing relevant information about it: name, description, genre, duration, actors list
 - search movies by name / genre / date of scheduling
 - 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
- customers management:
 - create a new customer providing name and email (email must be unique)
 - search customers by name or email
- orders management:
 - place an order by specifying details about the scheduled movie (movie name, cinema room, 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
 - it also includes ticket generation

Project testing and source code

For an easier understanding of the endpoints, the project was documented using swagger. The documentation can be accessed [here](#) after running the project.

For testing, we can also use the postman collection available at [this url](#).

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