TEAM 52

Phase 1

Team Member 1 Rocco Gazzaneo (903553002)
Team Member 2 Alessandro Vinci (903552630)
Team Member 3 Michael Brzozowski (903146872)
Team Member 4 Alessandro Caruso (903552999)

Note:

The uniqueness of the relationship between USER/THEATER and CUSTOMER/MOVIE is given by the combination of: user, theater name, company name, movie name and date. This is not captured by our EER which did not include the intermediate entity (History) to avoid unnecessary complexity of the user/customer entity.
These relations will be included in the relation schema once we start Phase 2.

Assumptions:

1) We are assuming that each user when he is registering, he is also explicitly choosing its UserType: he must be either a Customer only, a User Only, a Manager-Customer or a User Only. Admin that have already been added to the database have by default UserType : Admin.
2) We are assuming each company has a Unique Name.

Logical Constraints:

1) When scheduling a movie, the play date inserted has to be posterior to the release date.
2) The number of customers paying to watch a movie can't be greater than the capacity of the theater.
3) An Admin can't decline a user if his/her status has already been approved.
4) When creating a movie, its Play date should be set as Null until the movie is scheduled by the manager.
5) When booking the visit of a theater, the user can't insert a date that has already passed.
6) When filling the address form, there can't be a zip code that is not among the existing Zip codes of the selected state.
7) An admin can't update nor change a movie's name after he created it.

(16) Admin Company Detail

(17) Admin Create Movie

(18) Manager Theater Overview

(15) Admin Create Theater

(19) Schedule Movie

(14) Admin Manage Company

(20) Explore Movie

(13) Admin Manage User

Company Detail

Create Movie

Theater Overview

Create Theater

Schedule Movie

Manage Company

Explore Movie

Manage User

DB

View History

(21) View History

Register Manager Customer

(6) Manager-Customer Registration

Register Manager

Register Customer

Register User

Login User

View Visit History

Explore Theater

(22) User Explore Theater

(5) Manager-Only Registration

(23) User Visit History

(4) Customer Registration

(3) User Registration

(1) Login