## 

Cinema Lab

## User Story

Create an application for selling online cinema tickets.

- 1. The application must contain all cinema hall information.
- 2. The application must have the ability to have a movie list.
- 2.1 The application must have the ability to add a new movie.
  - 2.1.1. While the movie has been created, the application must have the ability to choose many genres for the movie. Also, genres can have many different movies.
- 2.1.2. Movies must have a release date, duration, name, list of genres, summary, state (active, draft, suspended), type (premier, regular).



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- 2.2. The application must have the ability to add a new cinema.
  - 2.2.1. Cinema must have a name, sponsored name and location\_id.
  - 2.2.1.1. The location must have a name, that can't be blank.
- 2.3. Add a movie in the calendar, in a specific cinema hall, with the correct time.
- 2.4. The application must have users, regular users and admin users.
  - 2.4.1. The User should have a form to create a user with an email address, password and all necessary information.
  - 2.4.1.1. Email must be validated as email and can't be null.
  - 2.4.1.2. The password must have a minimum of 6 characters and can't be null.
- 2.5. The User can make an online reservation for the movie they want to watch. They can choose a seat and row number, date when they want to watch the movie.

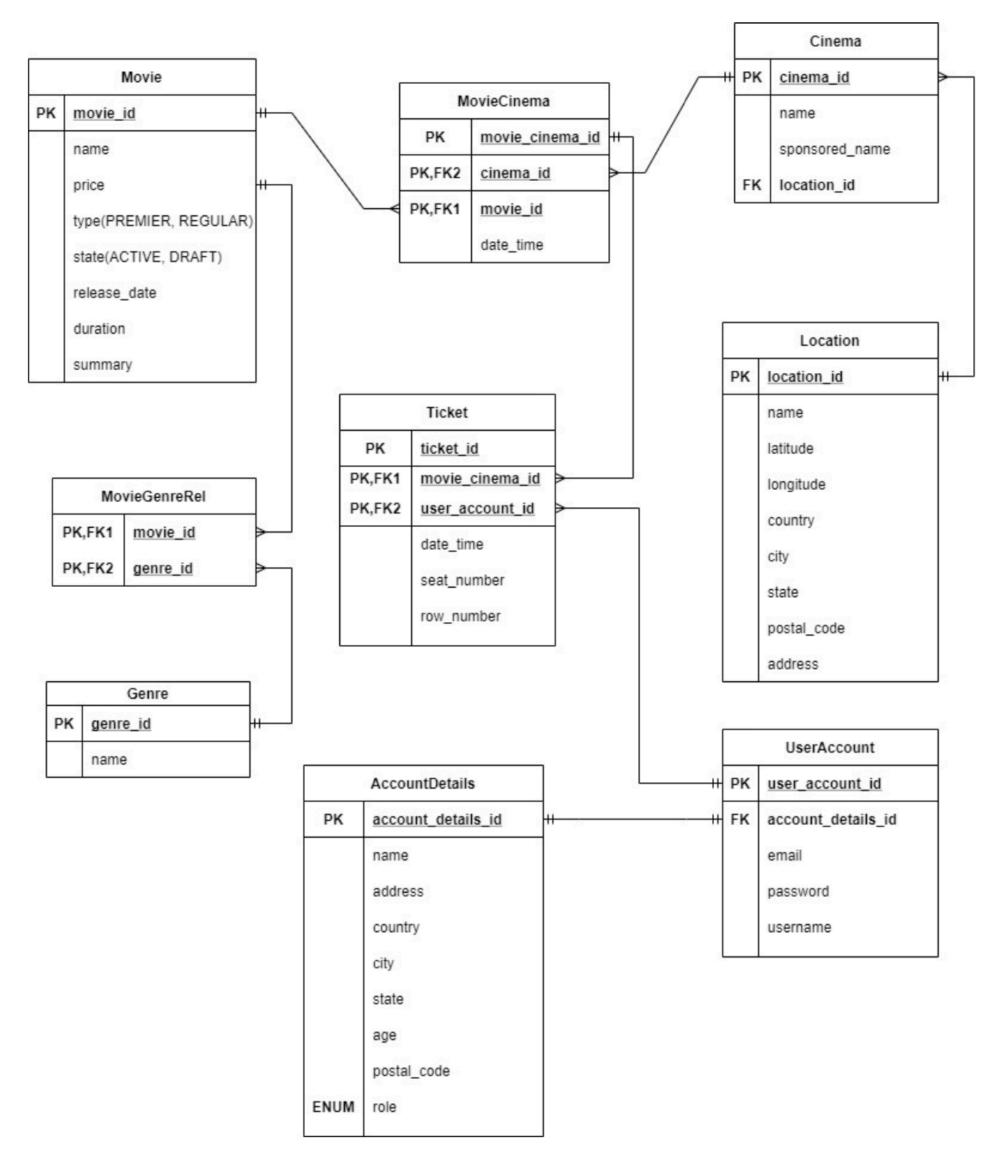


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Design a database schema based on the requirements in the previous pages. Feel free to check how cinema online tickets work, what they provide to make the application useful for the users. Feel free to add as much information or property to the table as you think it is necessary for the application to be completed and useful.

NOTE: You can check the diagram in the next page.





**NOTE:** For the meanings of the relationships between the tables, you can check the next page.

Crow's Foot notation		Many - to - One				
	Entity (with no attributes)		>	M:1		a one through many notation on one side of a relationship and a one and only one on the other
	Entity (with attributes field)		>○	M:1		a zero through many notation on one side of a relationship and a one and only one on the other
			>	M:1		a one through many notation on one side of a relationship and a zero or one notation on the other
	Entity (attributes field with columns)		>○	M:1		a zero through many notation on one side of a relationship and a zero or one notation on the other
		Many-to-Many				
	Entity (attributes field with columns and variable number of rows)		>○	M:M	—○<	a zero through many on both sides of a relationship
		>	M:M	— <del> </del> <	a one through many on both sides of a relationship	
Relationships (Cardinality and Modality)			>>>	M:M	<del></del>	a zero through many on one side and a one through many on the other
>>> Zero or More		Many-to-Many				
		One or More	-  -	1:1	a one and only one notation on one side of a relationship	
		One and only One			-0+	and a zero or one on the other
+0		Zero or One		1:1		a one and only one notation on both sides