

Team 33

Entity

1. User : The entity for all registered users.
2. FriendList: Each user has a friend list. User can share movie or TV shows to their friends.
3. UserMovieList: This is the movie list that user creates.
4. Content: This entity includes Movie and TV shows.
5. Movie: The entity for each individual movie.
6. TV Shows: The entity for each individual TV show.
7. Review: The entity for the reviews that users give to a movie or TV show.
8. Person: The entity for the people who participate in the Movie/ TV show.
9. Actor/Director: Sub class for person.

Attributes

User:

- Username: It is a PRIMARY KEY, and it is used to uniquely identify the user and create an account for the web application.
- Password: Is authentication attribute for web application.
- Email: It is user's email for contact information.

UserMovieList

- Name: Name of a movie
- Year: release date/year of the movie
- Genre: Genre of the movie

FriendList

- Username: Used to identify a friend
- Email: Used to contact friend

Content

- Name: (Unique Key) it is the name of a movie
- Year: (Unique Key) it is the year it was released
- Top chart: Y/N. Y if the content is in the top chart

Movie

- Length: length of a movie in minutes
- Genre: Genre of a movie
- StudioName: Name of a film studio or a company

TV Shows

- Episodes: List of Episodes of a TV show
- Genre: Genre of the TV show
- StudioName: Name of a film studio or a company

Person:

- Name: (Unique) name of a person
- Address: (Unique) Address of a person
- Gender: the gender of a person

Dependencies

- FriendList depends on the user.
- The existence of UserMovieList depends if the user has watched movies.

Relationships

- Own - refers to an entity (UserMovieList) being changeable by the User.
- Has - refers to the User having one or more friends in FriendList.
- Review - User has the ability to review Content.
- Include - refers to UserMovieList has a part of Content.
- Directed by - refers to the movies being directed by a Person (Director).

Constraints

- Password: password in User must have alphabets and numeric values.
- Email: must have a char '@' in the email
- Year: must be four digits long

ISA, Weak Entity Sets, and Multi-way relationship

- Movies and TV shows are some Content (isa).
- Actors and Directors are People (isa).
- UserMovieList must only exist when it is created by the User. UserMovieList is Uniquely identified by username in User. (Weak Entity Set).
- FriendList is uniquely identified by the User, it does not have a Primary key of its own. FriendList should not exist without the User (Weak Entity Set).
- There is a multi-way relationship between Content, User, and UserMovieList.