

## **Users**

### **Description:**

The object that represents the users of the application.

### **Properties:**

- Username(string) - the unique name to the individual user
- Password(string) - the unique password to the individual user
- Contributing(boolean) - signifies whether or not the user is a contributor (allowed to add movies / people)
- MoviesWatched(array) - an array of mini movie objects with only Title and id properties that signify the movies that the user has watched.
- ReviewsMade(array) - an array of mini review objects with only Title, id, and Movie properties that signify the reviews that the user has made on movies.
- RecommendedMovies(array) - an array of mini movie objects with only Title and id properties that represent the movies recommended to the user based mostly on movies they've watched and reviews they've made
- UsersFollowing(array) - an array of strings signifying usernames that the user follows
- UsersFollowingThis(array) - an array of strings signifying usernames of users that follow the current user object
- PeopleFollowing(array) - an array of strings signifying people that the user follows
- UsersFollowingThis(array) - an array of strings signifying names of people that follow the current user object
- Online(boolean) - indicates whether or not the user is currently logged on
- Notifications(array) - an array of strings representing notifications to the user

### **Interaction with other objects:**

- Users - Users interact with other users by following / unfollowing them. Notifications in the user are edited when a user they follow makes specific actions (leaves a review, go online / offline, if they add a certain movie to watched list, if they follow/unfollow other users/people, etc)
- Movies - Users interact with movies by adding reviews to them, adding/removing them from watched list, an adding new movies.
- Reviews - Users interact with reviews by adding reviews to movies.
- People - Users interact with people by following / unfollowing them. Notifications in the user are edited when a person they follow makes specific actions (if a new role is added, etc)

## **Movies**

### **Description:**

The object that represents the movies of the application.

### **Properties:**

- id(int) - the unique id to the individual movie
- Title(string) - the title of the movie
- Year(int) - the year the movie was released

- **Rated(string)** - a letter combination than shows the rating of the movie for appropriate audience ("R", "PG-13", etc)
- **Released(string)** - string signifying release date of the movie in "dd/mm/year" format, where *mm* is the first three letters of the given month
- **Runtime(int)** - an int signifying the runtime of the movie, in minutes
- **Genre(array)** - an array of strings signifying the genres of the movie
- **Director(array)** - an array of strings signifying the director(s) of the movie
- **Writer(array)** - an array of strings signifying the writer(s) of the movie
- **Actors(array)** - an array of strings signifying the actor(s) of the movie
- **Plot(string)** - a string summarizing the movie's events
- **Awards(string)** - a string summarizing the awards this movie has received
- **Poster(string)(optional)** - a string URL to an image's poster
- **Reviews(array)** - An array of review objects with the following properties :
  - **Movie:** Stores a mini movie object with Name and id properties
  - **Id :** Stores an int representing the unique id of the review
  - **Date:** Stores a string with the date of the review in "Month day year hour:minute:second", where Month is the full month (January, February, etc ; no abbreviations), and hour is in 24-hour format
  - **User:** Stores a string representing the username of the user who made the particular review
  - **Score:** Stores an int representing the score of the review that the user has made, out of 10
  - **Title:** Stores a string of the title (summary) of the review made.
- **Similar movies(array)** - An array of mini movie objects with Name and id properties that signify movies similar to the current one, based mostly on genres.

#### **Interaction with other objects:**

- **Users** - Users interact with movies by adding/removing them to the watched list, reviewing them, and adding new movies.
- **Movies** - Movies interact with other movies in the algorithm that determines similar movies
- **Reviews** - Each movie has an array of reviews as a part of its data
- **People** - Each movie has a list of people objects that played a role in the movie (acting, writing, directing)

## **Reviews**

### **Description:**

The object that represents the reviews of the movies created by users

### **Properties:**

- **id(int)** - The unique int identifier of the review
- **Date(string)** - The string representing the date of the review. Format: "Month Day Year Hour:minute:second", where Month is the full name of the month, sans abbreviation, and hour is in 24 hour-format.

- Movie(object) - An mini movie object with Name and id properties signifying the movie that is being reviewed
- User(string) - The string that represents the username of the user giving the review
- Score(int) - The int score of the review, out of 10
- Title(string) - A string signifying the summary of review text
- Text(string) - A string storing the full text review of the user

**Interaction with other objects:**

- Users - Users interact with reviews by adding reviews to movies
- Movies - Each movie has an array of reviews as a part of its data
- Reviews - None
- People - None

## **People**

**Description:**

The object that represents the people that play roles in movies (actors, directors, and writers).

**Properties:**

- name(string) - The unique name of the person being represented
- FrequentCollaborators(array) - Array of strings signifying the names of other people that this person has often collaborated with
- WorkHistory(object) - An object with 1-3 of the following properties:
  - Actor(array) - An array of mini movie objects with name and id properties representing the movies this person has acted in
  - Writer(array) - An array of mini movie objects with name and id properties representing the movies this person has wrote
  - Director(array) - An array of mini movie objects with name and id properties representing the movies this person has directed

**Interaction with other objects:**

- Users - Users interact with people by following / unfollowing them. Notifications in the user are edited when a person they follow makes specific actions (if a new role is added, etc)
- Movies - Each movie has a list of people objects that played a role in the movie (acting, writing, directing)
- Reviews - None
- People - Users store a list of other users in their FrequentCollaborators array.