# Watchlist Web Application

<u>Notice:</u> Before running the app, you need to download the requirements (saved in requirements.txt) using pip and/or a virtual environment.

### Mongo DB collections:

In the database called "watchlist app", there exists the collections:

```
Shows: holds the movies and series in the database. Example:
{
       "_id": {"$oid": "61e28811c5c9d9ac5c9b968b"},
       "episodes num": 0,
       "genre": "Adventure",
       "name": "Star Wars: A new hope",
       "rating": 4.724,
       "rating_number": 25,
       "type": "Movie"
}
Note that:
   o Rating is between 0 and 5 inclusive
   o Rating number holds the number of reviews
   o The name is always unique (mongo index has been created as unique)
   o Episode number is 0 for movies and more for series.
Users: Holds the users and their watchlist. Example:
       " id": {"$oid": "61e2b3942d30979d7a175335"},
       "username": "LDC",
       "full_name": "Lionardo Di Caprio",
       "hashed_pass": "$5$rounds=535000$Aws.x2BWvgiRCy7P$AlnrfL0.crGHlCLps
       Q0FTP0E5mEGCTUi/98x5TBuL1C",
       "watchlist": ["61e281dd174a1790ee2e8e32", ...]
}
Note that:

    Username is unique

    Password is hashed
```

o Watchlist is an array of strings where each string is the Object id of a show

# **Authentication:**

All paths that use authentication use JWT authentication: add "Bearer ...token..." in the authentication header. (or write it in the box in the swagger ui)

#### Paths that use authentication:

- GET: /user/watchlist

Gets a user's watchlist, private to the user

- POST: /user/rate

User can rate a show on a scale of 0 to 5 (as integer)

- PATCH: /user/watchlist/{show\_id}

Add show to user's watchlist (watchlist elements are unique, show can only be added once, unless it was deleted)

DELETE: /user/watchlist/{show\_id}
 Delete show from user's watchlist

# Functionalities:

- Register user
- Login user
- Add show
- Delete show
- Get a show
- Get Shows (alphabetical order by name implemented with pagination)
- Get user's watchlist
- Delete show from user's watchlist
- Add show to users watchlist
- User can rate a show on a scale of 0 to 5 (as integer), that affects the current rating in the shows collection

### **RUN THE APP**

- 1. Go to codegen server
- 2. Run: python -m openapi\_server
- 3. Go to: http://localhost:8080/ui to get the swagger ui
- 4. Run the route you want.

# Publish on docker:

Go to the location that holds the docker file (ie. codegen server)

- 1) docker build -t docker-image .
- 2) docker run -dp 8080:8080 docker-image
- 3) Go to <a href="http://localhost:8080/ui">http://localhost:8080/ui</a> to get the swagger ui