

## Watchlist Web Application

Notice: 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:

- Rating is between 0 and 5 inclusive
- Rating number holds the number of reviews
- The name is always unique (mongo index has been created as unique)
- 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.crGHlCLpsQ0FTP0E5mEGCTUi/98x5TBuL1C",
  "watchlist": ["61e281dd174a1790ee2e8e32", ...]
}
```

Note that:

- Username is unique
- Password is hashed
- 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.