1. **CREATING THE DATABASE**

   Requires: Python 3.8.1 and SQLite3

   1.1 First unzip the data files and rename them to dataTitle.tsv (Title basics file), dataName.tsv (Name basics file) and dataRatings.tsv (Title ratings file).

   1.2 They need to be in the same directory as createDB.py

   1.3 Execute createDB.py.

   1.4 Wait for it.

   1.5 The file sidia.bd will be generated.

2. **STARTING THE API**

   2.1 The file sidia.db needs to be in the same directory as server.py and requirements.txt.

   2.2 Create a virtual enviroment in this directory.

       2.2.1 Using windows10 cmd:

           2.2.1.1 Navigate to the directory that contains the files server.py and requirements.txt.

           2.2.1.2 Execute: virtualenv venv

           2.2.1.3 Execute: .\venv\Scripts\activate

   2.3 Now to install the requirements:

       2.3.1 Execute: pip install -r requirements.txt

   2.4 Start the API:

       2.4.1 Execute: server.py

   2.5 It will run on (0.0.0.0:5000)

   2.6 To access the API in the browser use the example URLs:

       http://localhost:5000/movies/Romance
           > (all romance movies)

       http://localhost:5000/ranking/
           > (all movies ranked by average rating and number of votes)

       http://localhost:5000/ranking/2019
           > (top 10 movies of 2019 ranked by average rating and number of votes)

3. **CLIENT APPLICATION (ANDROID):**

3.1 Open the project in frontend folder using Android Studio.

3.2 Run it on the emulator.

3.3 Test Cases:

Test Case 1:
1. Click on "Search by category".
2. Nothing happens.

Test Case 2:
1. Enter string Romance on top editText.
2. Click on "Search by category".
3. recyclerView will show all Romance movies.

Test Case 3:
1. Enter string Horror on top editText.
2. Click on "Search by category".
3. recyclerView will show all Horror movies.

Test Case 4:
1. Click on "Search by year".
2. recyclerView will show all movies, ranked by average rating first, and then by number of votes.

Test Case 5:
1. Enter string 2000 on bottom editText.
2. Click on "Search by year"
3. recyclerView will show top 10 movies from 2000, ranked by average rating first, and then by number of votes.

(Note that adult movies and movies with average rating below 6 will not be shown in the results)