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IMDB Software to fetch data of Hollywood Actors and Actresses

Task 4 Document - Project Report

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1 Project Description

This project mainly consists of creating a Python client to fetch data of the *IMDB Top 50 Actors and Actresseslist* and also gather their movie data. The client uses an API to fetch all the basic actors/actresses list (4.1), the actor/actress About section (4.2) and all their movies (4.3). For Sections 4.4 - 4.7 Web-scraping is used to get awards data and ratings of the movies. The client is presented in a window based UserInterface where the user can click to gather the wanted information.

The further details of the specifics are handled in this document.

2 Tools, Modules and Data-Structure

For development of the client I used *Python 3.9.4* in *Visual Studio Code* with the *Python IntelliSense* extension which helped me in code completion and understanding the structure of all the frameworks and modules. For version control I used *Git* and the helpful VS Code extension *GitLens* which helped me to keep track of my changes in the project files.

When it comes to the modules, *Requests* and *BeautifulSoup 4* were necessary to handle all the web scraping. The http context is created with the module *SSL*. For most data I used a data frame created with *Pandas*.

The Graphical UserInterface was implemented using PyQt6. The framework also provides Thread libraries to help with multi-threading. The UI itself was designed with $Qt\ Designer$. It was very convenient to have a graphical UserInterface to drag and drop widgets and have an overal understanding of all elements.

For presenting the project I also used VS Code. I wrote the reports in $\cancel{E}T_EX$ with the help of the $LaTex\ Workshop$ extension and PlantUml to present core structures and flows of the client. In the presentation of the client I used Powerpoint.

3 High-level Design

4 Functionalities

- 4.1 List of all available actors and actresses
- 4.2 About the actor/actresses
- 4.3 All time movie names and years
- 4.4 Awards to actor/actresses in different years
- 4.5 Movie genre of actor/actresses
- 4.6 Average rating of their movies
- 4.7 Top 5 movies, their respective years and genre