

# Netflix Film Review Provider Report

## Problem statement

Create a Qt application which loads a dataset with information about Netflix films. MVC pattern was used to display the data from the dataset and Master-Detail pattern was used to display details (duration, rating, ...) of a selected film.

## Implementation details

### General

Link to the repository: <https://github.com/mgorodov/dsba-itop2022-hw>

I tried to develop the project according to the guidelines, using examples and features, we discussed on lectures and seminars. There were no clear requirements for filtering UI in project specification, so I added it just above the part with description of details. All other requirements of specification, including elements of interface were completely satisfied.

### Main project files

CMakeLists.txt	
download.ico	Icon
upload.ico	Icon
helppage.cpp	Page with logo and about section, inherited from QWidget
helppage.h	
main.cpp	Entry point of program, which just starts with MainMenu window
mainmenu.cpp	Micro page with two buttons: start and help. Inherited from QWidget
mainmenu.h	
mainpage.cpp	MainPage have QTableView with custom filter model, inherited from QSortProxyModel
mainpage.h	
netflix_dataset.csv	Dataset itself
resources.qrc	Resource file with icons

### Windows

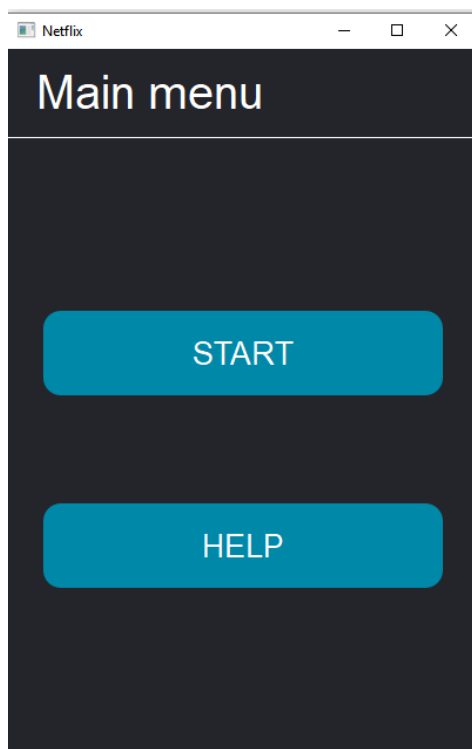


Fig. 1 Main menu window



Fig. 2 Help section

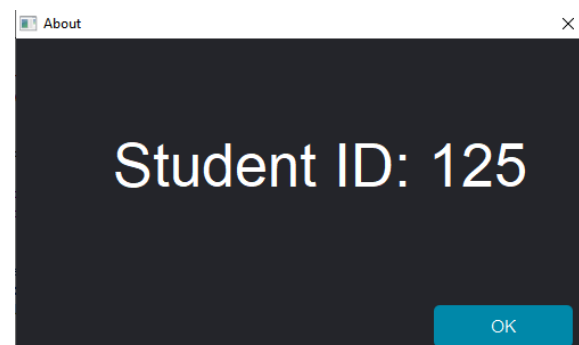


Fig. 3 About section

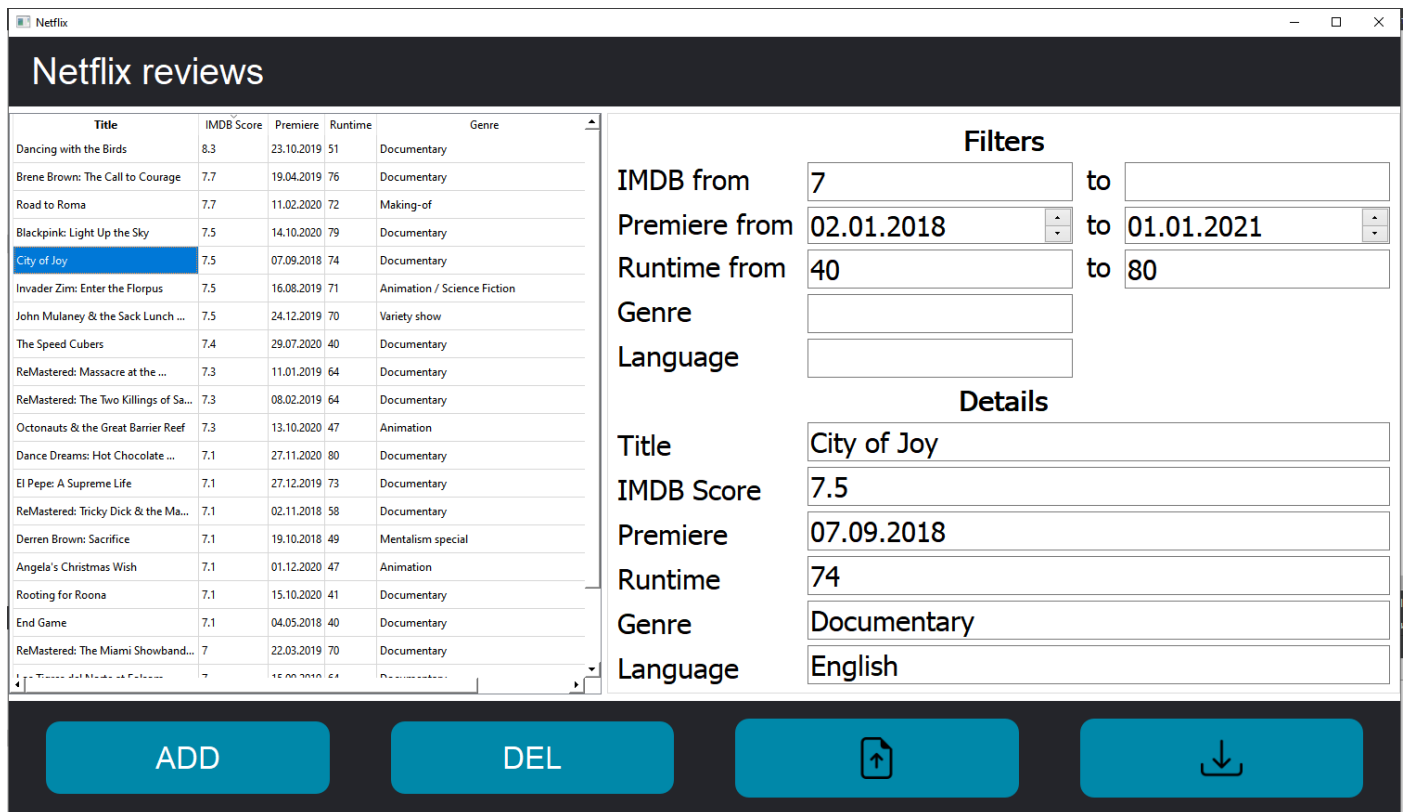


Fig. 4 Main window

Clicking on add/del user can add new film or delete selected one. Clicking on Other two buttons will load file into a program and save it to the computer respectively. All entries of QTableView are made editable as well as all fields in Details part, so user can edit any entry directly.

If user will edit any filters fields, filterModel will be invalidated, so program would apply sorting and filtering again with current preset.

## Conclusion

All requirements were satisfied, however there are some minor issues. Currently in mainpage.h and mainpage.cpp exist a lot of not well-structured and sometimes controversial code (in a part of relationship between classes), precisely definition and implementation of MainPage window, FilterModel and FilmModel (which just stores data). I believe the further improvements could be in the direction of little bit better decomposition.