Project Manager Application

Author: Student#139

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Problem statement:

Create an application which loads a dataset with Netflix films, sort filter and searching films and save in a file.

Project Specification:

https://github.com/FIvER4IK/dsba-itop2022-hw/blob/master/spec_158.pdf

Details of realisation:

The main difficulty I encountered during the implementation was the dataset parsing, the delimiter in it was a comma while inside some cells, the entries in such cells were surrounded by double quotes, I had to use regular expressions to parse these lines

|— CMakeLists.txt |— about.cpp |— about.h |—genrefilterproxymodel.cpp |—genrefilterproxymodel.h |—logo.h |—logo.cpp |—main.cpp |—mainwindow.h |—mainwindow.cpp

l—netflixmodel.h

Project Structure:

- l—netflixmodel.cpp
- l—storage.cpp
- l-storage.h

runtime						Drama Horror	
O 3 4						Comedy Thriller	
Title ~	Genre	Premiere	Runtime	IMDB Score	Language		
Enter the	Documentary	August 5,	58	2.5	English/		
Dark Forces	Thriller	August 21,	81	2.6	Spanish		
The App	Science	December 2	79	2.6	Italian		
The Open	Horror thriller	January 19,	94	3.2	English		
Kaali Khuhi	Mystery	October 30,	90	3.4	Hindi		
Drive	Action	November 1,	147	3.5	Hindi		
Leyla	Comedy	December 4,	112	3.7	Turkish		
The Last Day	Heist film/	June 5, 2020	149	3.7	English		
Paradox	Musical/	March 23,	73	3.9	English		
Sardar Ka	Comedy	May 18, 2021	139	4.1	Hindi		
Searching fo	Documentary	April 22, 2021	58	4.1	English		
The Call	Drama	November 2	112	4.1	Korean		
Whipped	Romantic	September 1	97	4.1	Indonesian		
All Because	Action	October 1,	101	4.2	Malay		
Mercy	Thriller	November 2	90	4.2	English		
After the Raid	Documentary	December 1	25	4.3	Spanish		
Ghost Stories	Horror	January 1,	144	4.3	Hindi		
The Last	Political thriller	February 21,	115	4.3	English		
What	Comedy	January 1,	102	4.3	Korean		
Death Note	Horror thriller	August 25,	100	4.4	English		
Hello Privileg	Documentary	September 1	64	4.4	English		
Secret	Thriller	July 18, 2019	97	4.4	English		
Sextuplets	Comedy	August 16,	99	4.4	English		
The Girl on t	Thriller	February 26,	120	4.4	Hindi		

- 1. File
- 1.1 Open opens a dialog box downloads the file and displays it on the screen
- 1.2 Save opens a dialog box and saves the model to a new file
- 2. About show information about app and logo
- 3. Sort table by selected row
- 4. Slider show films only with IMDB score more or equal of selected one
- 5. Show films only with selected genres
- 6. Search option

Results:

all the tasks from the specification were completed with the exception of one change. The author of the specification suggested (in the task he did not specify that it should necessarily work like this, he assumed from the ui sketch) that the search should be carried out by pressing the search button, while I found it more convenient to make a search that offers options while typing the inscription into the text field

Conclusion:

I think that in the future it is possible to improve the filtering logic using a slider and find a faster solution than the one presented