# Report

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- Submission: 13/06/2022
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## Short description of the task

The task was to create a Qt application which uses the following dataset with Netflix movies and TV series to help a customer in choosing the movie to watch. The range of sortings, list of favorite items and other features were used to implement this problem.

## Individual project specification

You can find individual project specification here: spec_140.pdf

## Details of implementation

Link to repository: https://github.com/PLatoN14/dsba-itop2022-hw

To start with, the first complicated issue was the dataset itself. It contains a lot of strings with improper symbols and double quotes, so it was a challenge to parse the dataset. I needed to create a special string to collect only proper elements without incorrect ones and fix the beginning and the end of the current string.

Moreover, the process of drawing the logo was not as easy as I thought it should be. Mainly, because of the fact I needed to gather up the coordinates of figures and object.
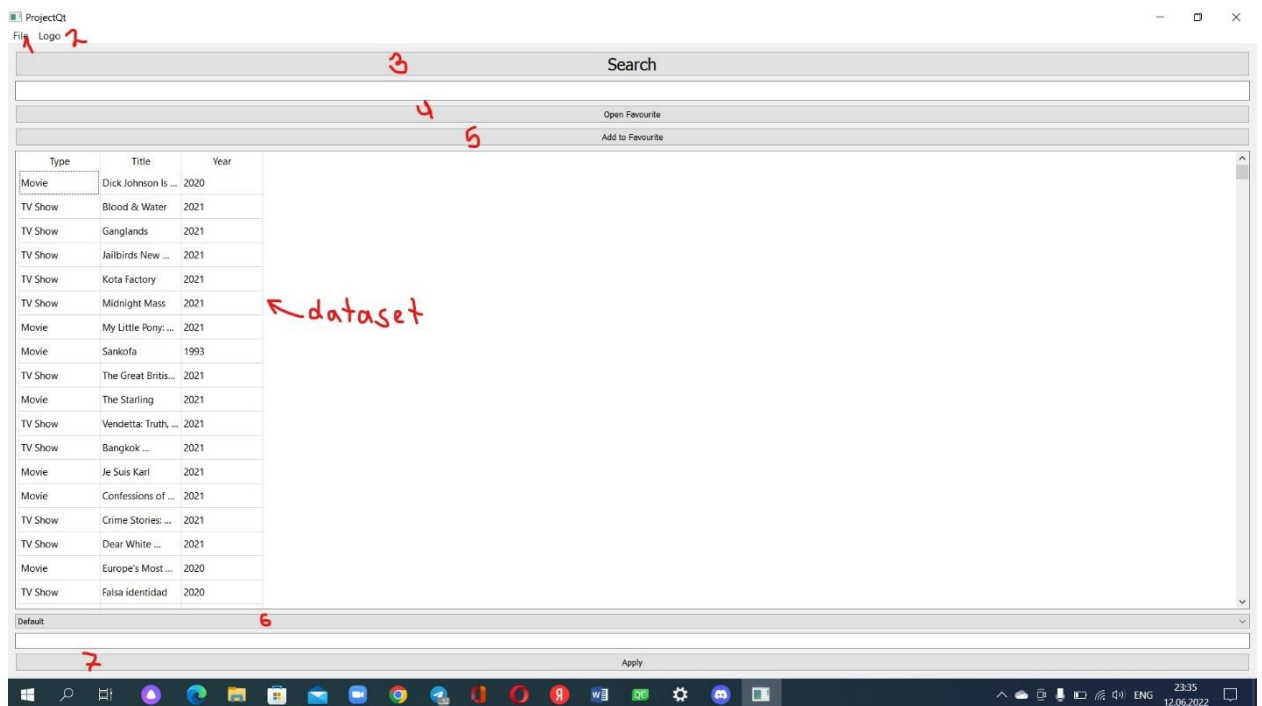
## Project Structure

- Data
    1. netflix_titles.csv
- Report
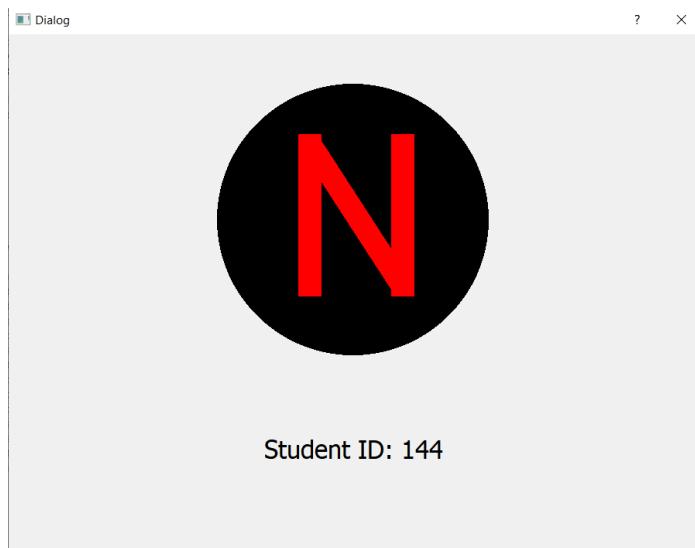    1. Spec_140.pdf

2. Main_window.png
3. Logo_window.png
4. Report.pdf
- Student_144 (branch with code files)
    1. ProjectQt.pro
    2. ProjectQt.pro.user
    3. like.cpp
    4. like.h
    5. logo.cpp
    6. logo.h
    7. logo.ui
    8. main.cpp
    9. mainwindow.cpp
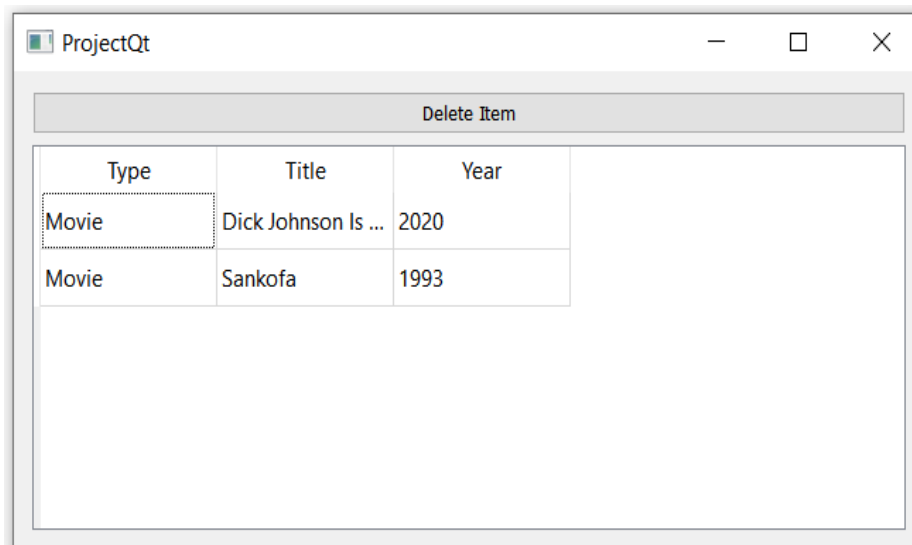    10. mainwindow.h
    11. view.cpp
    12. view.h

## All features
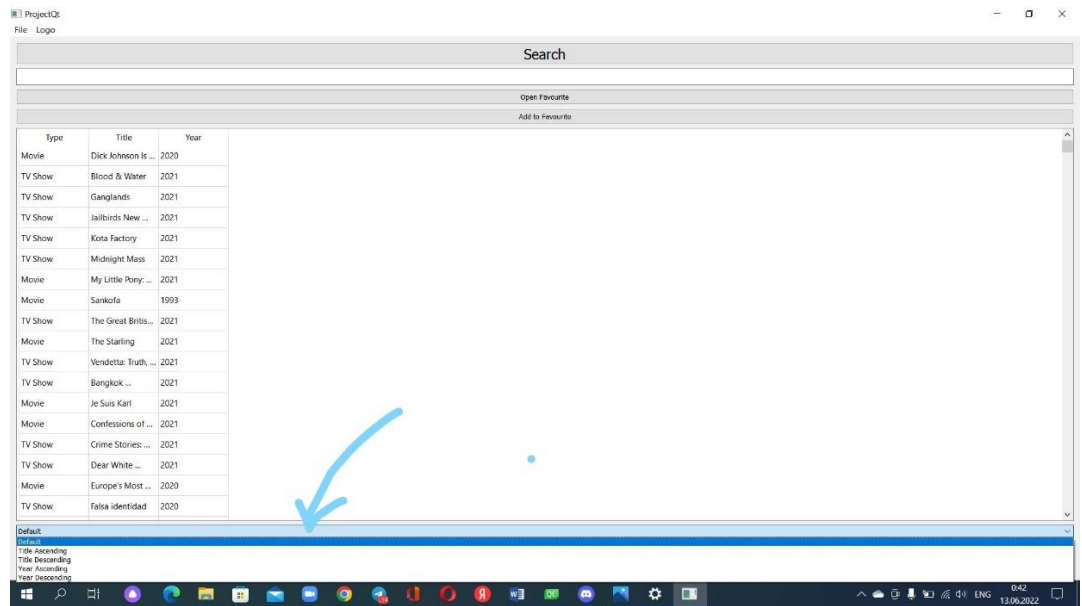
This is how the main window looks like:



1) The "File" button allows to either upload and open a file or to save some data.
2) The "Logo" button opens a window with the logo itself and student ID:

Student ID: 144

3) "Search" button: you are able to type the title of a movie via the search string and instantly find all coincidences.

4) and 5) "Add to favourite" and "Open Favourite": one may choose any item and add it to the list of favourites. The button "Open Favourite" allows to open the full list. Note that all implemented sortings are valid in the list of favourites. Also you are able to delete an item from the cart via "Delete Item" button.
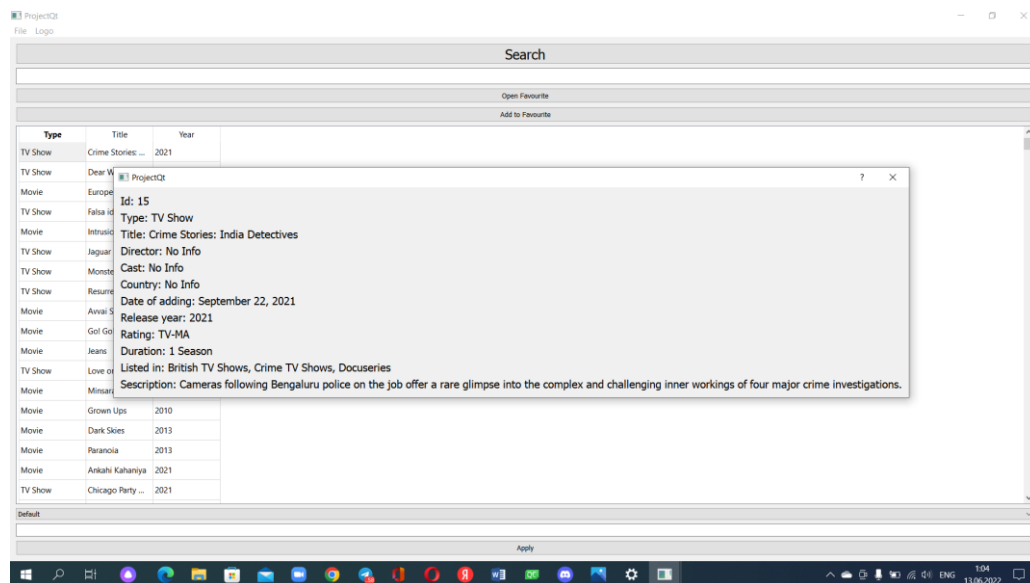


| Type | Title | Year |
|------|-------|------|
| Movie | Dick Johnson Is ... | 2020 |
| Movie | Sankofa | 1993 |

6) Here you can find a range of default sortings like "Title Ascending", "Year Descending" e.t.c.

7) Here you can apply personalized sortings (for example the list of onle "Movie" type items) in the string below default sortings and apply them via "Apply" button.

Additional features:

There is a possibility to open the window with all data about the particular movie, as due to specification not all data columns should appear after the dataset uploading:



# Results and discussion

I suppose the requirements of specification were fulfilled. I also add some additional features (e.g. preset of sortings) to expand the possibilities of convenient sort features.

## Conclusion

The main goal of the project was achieved, but still there are ways to improve it. Possible extra features are:

- Access to the collection of other viewers' reviews and feedback
- Movie posters
- Direct comparison of movies according to average ratings, reviews e.t.c.