

Report

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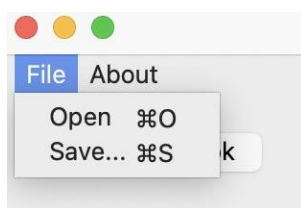
Supervisor name: Sergey Shershakov

Problem statement

Creating a QT application which load a dataset and presents the information about the books. It also provides an opportunity to add, delete books and find the book by title.

In addition, one can find book by specifying other things like rating or part of the description. Also, sorting is available. The logo and the information could be found in menu. Saving data is available.

Details



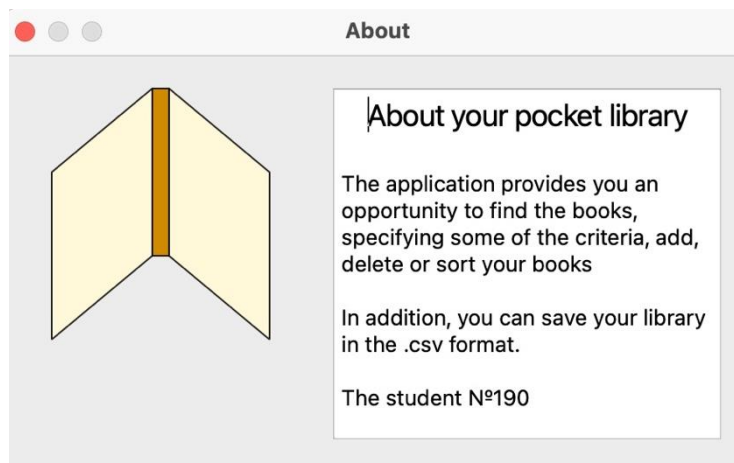
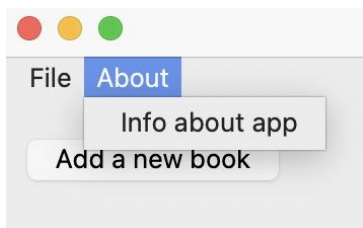
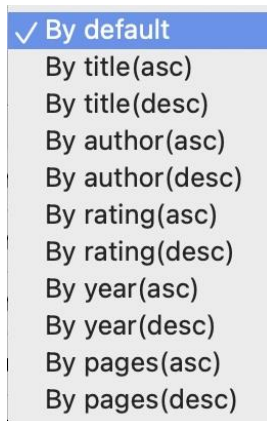
To view the books' description one needs to open the file and get the following result.

To add, delete or find by title one should click the obvious buttons, the following dialogs appear.

The title of a book	Author	Genre	Average Rating	Year	Pages	Original Language	Description
Rage of angels	Sidney ...	Fiction	3.93	1980	512	English	The novel .
Master of th...	Sidney ...	Thriller	4.11	1982	544	English	Master of t
Glamorous ...	Susan ...	Clergy	4.2	1996	512	English	Second in t
Crime and ...	Fyodor ...	Novel	4.2	1866	671	Russian	Determined
The house of...	Isabel Allende	Magical ...	4.3	1982	496	Spanish	The House
Broken Harbor	Tana French	Crime novel	3.9	2012	450	French	Pat Spain a
The Hate U ...	Angie Thomas	Contempora...	4	2017	464	German	Sixteen-ye
Cosmicomics	Italo Calvino	Stories	4.6	1965	153	Italian	Cosmicomi
The ...	Margaret ...	Dystopian ...	4.2	1985	465	Canadian ...	Set in a ne
Dune	Frank Herbert	Science fiction	4.2	1965	412	English	Dune is set
The Hauntin...	Shirley ...	Horror	4.3	1959	246	English	The Haunti
Ice	Anna Kavan	Science ...	3.7	1967	460	English	Anna Kava
The Blazing ...	Margaret ...	Science ...	3.9	1666	272	English	This book i
Dracula	Bram Stoker	Horror	4	1897	419	English	The novel

In this dialog one can specify any field and books will be displayed in the order of higher rating first.

To sort the spin box can be applied,
or by clicking the headers
(but after triggering the spin box)



And be clicking the
About in the menu
one can find
information about the
app and the logo.

Implementation

Regarding the implementation part, the add, delete buttons were used by changing the dataTable itself, while “find” things were done using proxyModels (for simple title search: setFilterFixedString, while for “advanced one” custom proxy model, which overrides acceptRows operator). Sorting was implemented by proxyModels as well.

Conclusion

To conclude, the project was completed as the task was given. There is some room for improvement, for instance, getting cart or displaying information description for each book.