

SPŠE Ječná

IT

File Manager

Tobiáš Mrázek

IT

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Introduction

File Manager is a school seminar project written in Java.

The end goal of the application is a working simplified file manager capable of basic file browsing and management utilities such as displaying files in multiple different ways, deleting/creating files or file execution.

Software

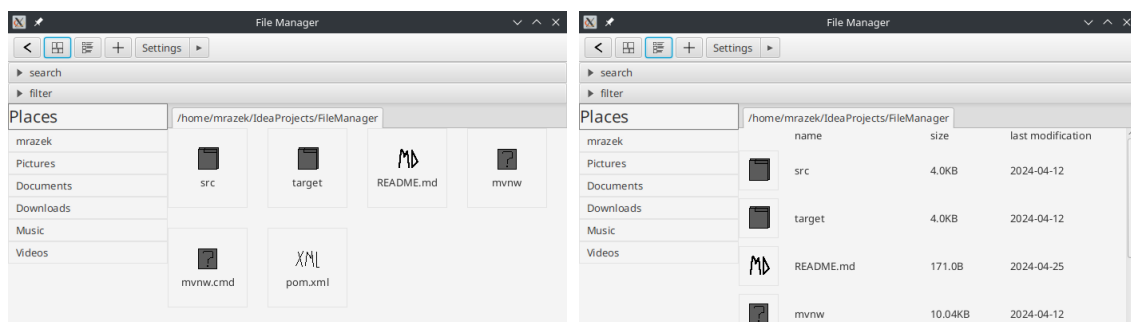
Application is written in Java 16 in combination with JavaFX 17.0.6 graphical library.

The whole project was written in the IntelliJ IDEA development environment.

Manual

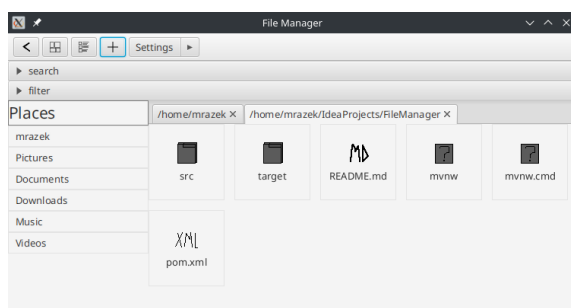
File displaying

As of now, there are two ways to display files. A *box* displaying method, which displays listed files as square boxes with filenames under the icons and a *list* method, which displays them in a vertical list.



Tabs

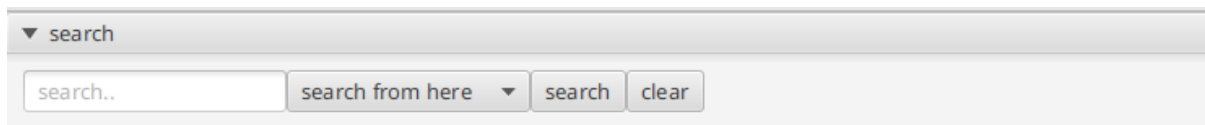
New tab can be opened using the *new tab button* marked with plus sign. And closed using the cross sign on the right of the tab name.



Search

Allows to search any filename either from current directory or from home directory.

Search text can be any java-style regex. Found files must always match given regex.

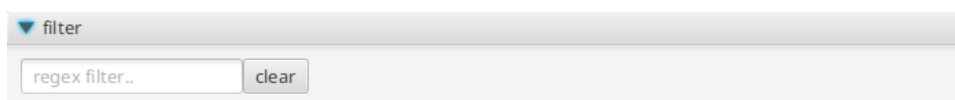


It is necessary to press the *search* button to confirm the search or *clear* button to return back to the current directory.

Filter

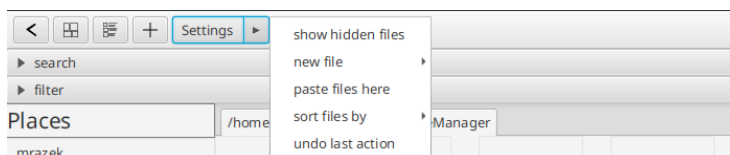
Filter removes all files which do not match the provided regex pattern from the currently listed files. Filters can be used consecutively or even on the results of search.

To confirm search, it is merely necessary to press enter. For returning back to the current directory, the *clear* button exists.



Settings

Settings is a menu list of basic actions to perform.



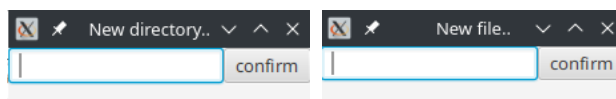
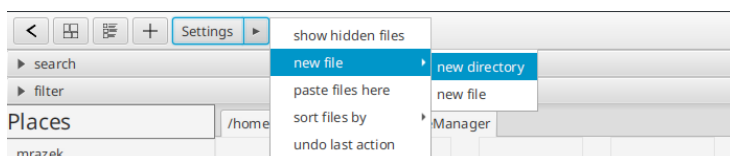
Show hidden files

A checkbox selection to choose whatever to show hidden files or not. By default, off.

New File

Let's user create a new file by the provided name in the opened popup dialogue window.

A new *file* is always a text file and the “.txt” suffix is appended automatically; a new *directory* is a basic directory.



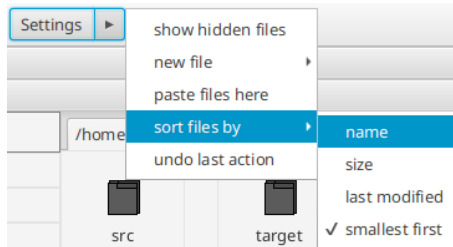
Paste files here

Pastes files in clipboard to the current directory. If file with given name already exists in the directory, program automatically invents a new name either by appending (1) counter, or by incrementing an already existing one.

Sort files by

Let's user choose one of three file sorting methods as well as choose to show files in the smallest first or reverse order.

The sorting methods are by filename, by file size or by the time of last modification.

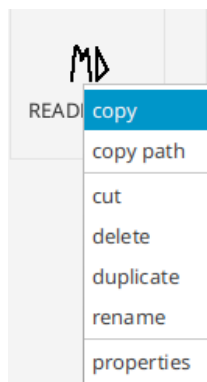


Undo last action

Undoes last undoable action.

Properties

Properties is a short menu list of actions performable on a specific file. It is opened by right clicking on a file icon.



Copy

Copies the selected file to clipboard.

Copy path

Copies the path to the selected file to clipboard.

Cut

Copies the selected file to clipboard and deletes it.

Delete

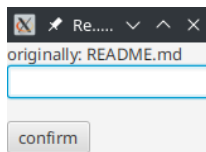
Deletes the selected file. Deletion is an undoable action.

Duplicate

Duplicates the selected file to the current directory. The duplicate copy will have a unique name with the (1) counter.

Rename

Renames the selected file with a new name provided to the rename popup dialogue window.

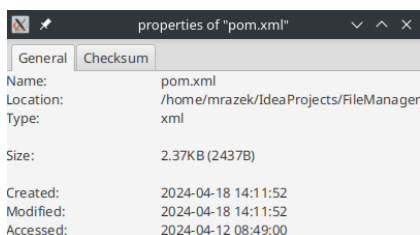


Properties

Opens the properties popup for given file

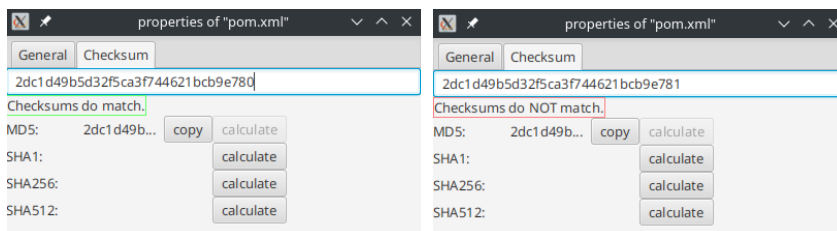
General

Shows basic information about selected file.



Checksum

Calculates checksums for provided file and allows checking of expected checksum.



To check checksum, it is simply necessary to press enter.

Conclusion

File Manager is a limited file browsing application. The program still lacks multiple files selection, file type specific properties such as image dimensions or textfile line count, the ability to save/open last session, the image icons could also be fancier and more.