

File Manager

Tobiáš Mrázek

SPŠE Ječná, Prague 3
IT

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1 Introduction

File Manager is a 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.

2 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.

3 Manual

3.1 Back

Returns the tab to the previous visited directory

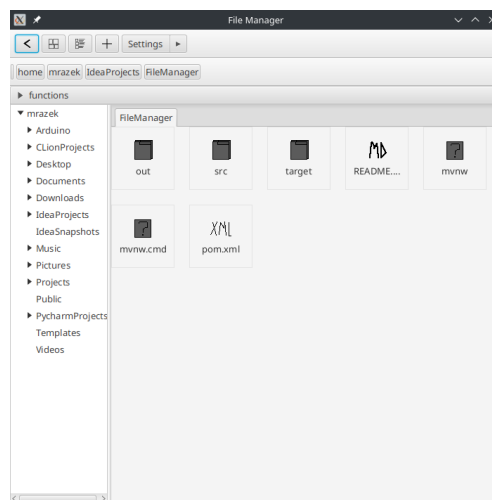


Figure 1: Back button

3.2 File Displaying

As of now, there are two ways to display listed files. A *Box* displaying method which lists files as box icons and a *List* method which displays files as a vertical list.

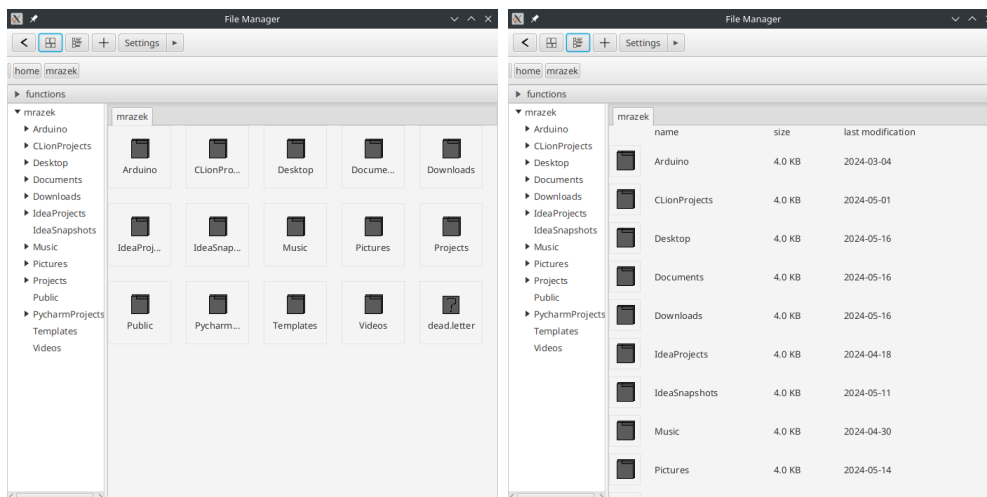


Figure 2: File listings

3.3 Tabs

The $+$ button allows for creation of new tabs. Maximal amount of tabs is 10. New tab can also be created using the $CTL - T$ shortcut.

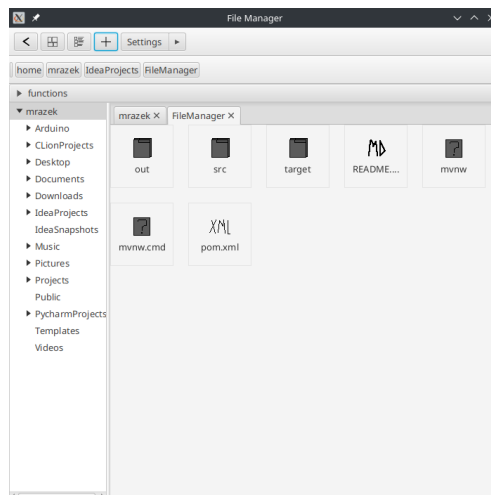


Figure 3: Tabs

3.4 Settings

Settings is a control menu with basic actions and configuration.

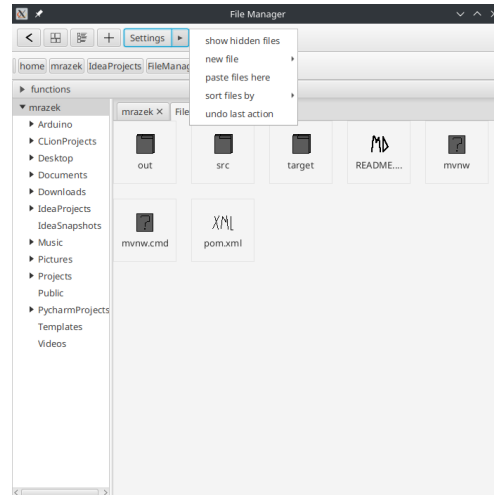


Figure 4: Show hidden files

3.4.1 Show hidden files

Show hidden files checkbox gives the choice to show hidden files or not. Value is unique for each tab and is by default set to false.

3.4.2 New directory/file

New directory can similarly be created using the *newfile > newdirectory* action in control menu or using the *CTL - D* shortcut.

New file can be created using the *newfile > newfile* action in control menu or using the *CTL - F* shortcut.

3.4.3 Paste files

Files from clipboard can be pasted into the current working directory using the *paste files here* action in control menu or using the *CTL - V* shortcut.

Files may only be pasted inside an open directory, meaning action returns warning if tab displays search results at the time.

3.4.4 Sort files by

Sort files by gives choice over the file sorting methods. The options are:

Name Sorts files based on name,

Size Sorts files based on size,

Last Modification Sorts files based on time of last modification and

Smallest first a checkbox choice to sort files in ascending order.

3.4.5 Undo last action

Attempts to undo the last executed action. Can also be executed using the *CTL – Z* shortcut.

3.5 Path view

Path view is the horizontal panel displaying the path to the current working directory as a series of buttons each leading to given part of the path.

By clicking on the tabpane rather than on the buttons there, a text field opens letting user edit the path.

Path can then be entered by presing the *ENTER* key. If path is invalid working directory will not change and path text field will stay open.

Path view will disappear by pressing the *ESC* key or by clicking elsewhere.

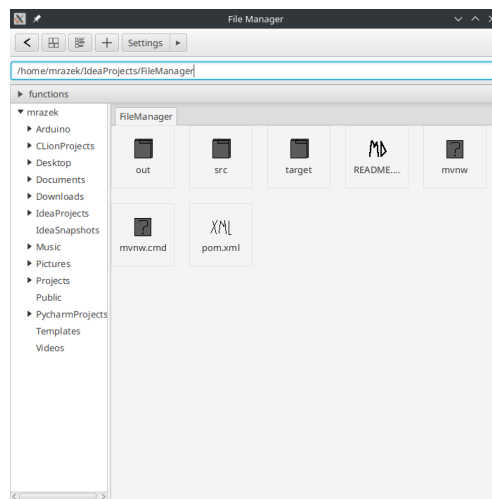


Figure 5: Path view text field

3.6 Functions

A titled expandable pane with two listing functions.

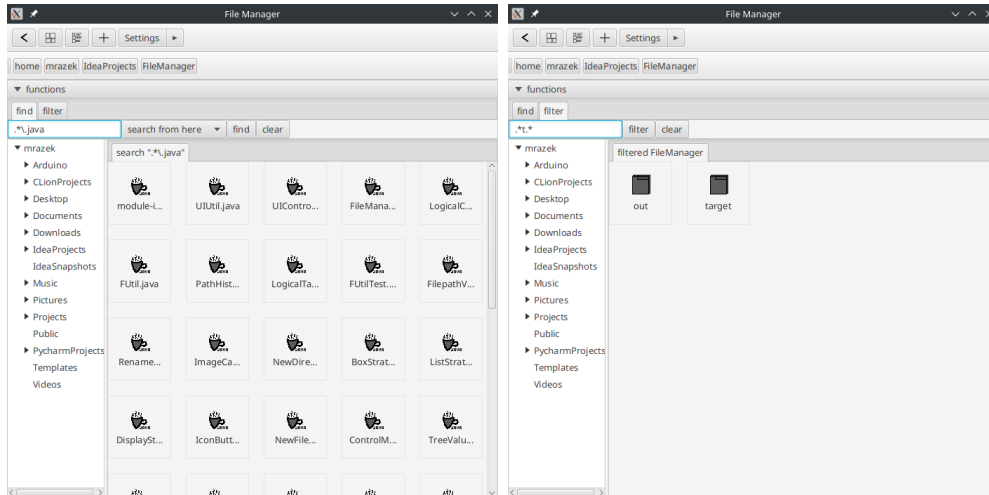


Figure 6: Find and Filter functions

3.6.1 Find

Takes a Java-style regex as an input to recursively match against files starting either from current working directory or from user.home directory.

Clear button returns back to current directory.

3.6.2 Filter

Also takes a Java-style regex as an input, removes all unmatched files from current file listing.

Clear button returns back to current directory.

3.7 Edit file

By double-right-clicking on an file, a control menu pops up.

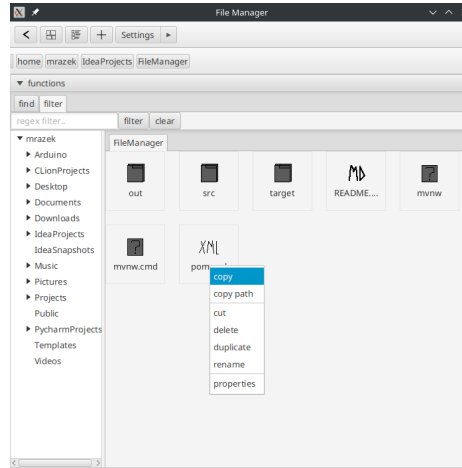


Figure 7: Edit file

3.7.1 Copy

Copies given file to clipboard.

3.7.2 Copy path

Copies path of given file to clipboard.

3.7.3 Cut

Deletes given file and stores its path to clipboard. Doesn't store the actual file.

3.7.4 Delete

Deletes given file.

3.7.5 Duplicate

Duplicates given file in the current working directory, appending 1+ " *copy* " strings to the base filename.

3.7.6 Rename

Allows renaming given file.

3.8 Properties

Accessed via the *Edit file* (section 3.7), properties popup displays two tabs of information:

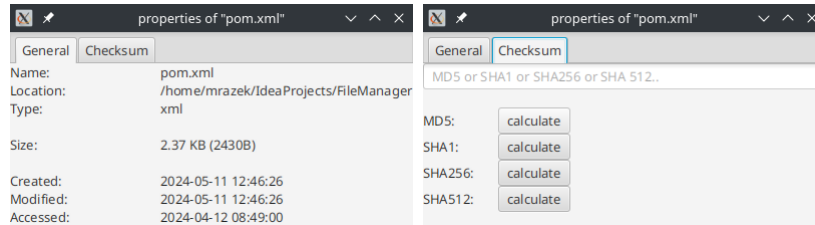


Figure 8: General and Checksum tabs in Properties

3.8.1 General

Displays general information about the file.

3.8.2 Checksum

Allows the calculation of different types of checksums for given file.

Checksums passed to the text input field can be evaluated by pressing *ENTER*.

4 Conclusion

File Manager is as an application still lacking in many aspects such as multiple files selection, saving/loading of sessions, better file execution, moving of files and more.