

Change request log

Team

Kartikay Sharma: Implemented the change

Swetha Varadarajan: Wrote the document, Verified the process.

Change Request

In the File -> Recent Files main menu of jEdit, the text box on top of the recent files list allows to highlight recent files names that match with a given string. The string in the text box should match all the files that contain it anywhere in their name. However, the highlight works only when the string matches the beginning of a file name. You are requested to modify this feature so that the highlight occurs for the cases when the string is contained anywhere in the file name.

Concept Location

Step #	Description	Rationale
1	<i>We ran the system using the Eclipse IDE</i>	
2	<i>We interacted with the system: after logging in we entered the schedule screen.</i>	<i>To get familiar with some of the features of the system, and identify the screens or graphical elements we had to change.</i>
3	<i>We searched for "recent file" using the instasearch tool of the Eclipse IDE</i>	<i>There were a list of files enumerated from the search.</i>
4	<i>Out of the four listed files, we inspected the "recentFileProviders.java" file. Remaining files didn't make sense to the context of the required change request. So, we chose to ignore them.</i>	<i>We confirmed this class had to be modified.</i>

Time spent (in minutes): 15 mins

Impact Analysis

We realized that for the given change request, a detailed impact analysis is not needed as it required only changing one line of the code.

Time spent (in minutes): 5

Prefactoring (optional)

We realized that there is no prefactoring involved for this change.

Time spent (in minutes): 5

Actualization

Step #	Description	Rationale
1	<i>We modified one line in the RecentFileProvider.java file and ran unit test after that.</i>	<i>The build was successful and the existing test cases passed.</i>

Time spent (in minutes): 5

Post factoring (optional)

We realized that there is no post-factoring involved in this change request.

Time spent (in minutes): 5

Validation

Step #	Description	Rationale
1	<i>Test case defined: Manual test Inputs: recent file list containing file names (say 5) with the string 'the' located at various positions of the file name. Expected output: highlight all the place where the string 'the' appears.</i>	<i>This is the regular expected behavior. The test passed.</i>

Time spent (in minutes): 5

Timing

Summarize the time spent on each phase.

Phase Name	Time (in minutes)
Concept location	15
Impact Analysis	5
Prefactoring	5
Actualization	5
Post factoring	5
Verification	5
Total	40

Reverse engineering

The UML figure shows the class that we changed.

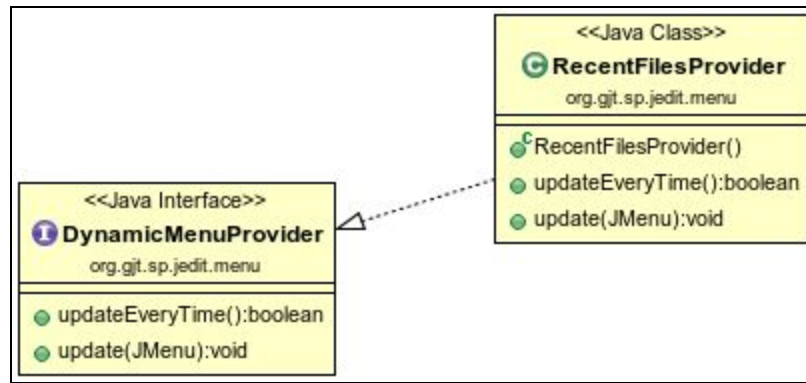


Figure 1: UML diagram to show the class changed in Jedit Change request #1

Conclusions

This was very a very easy exercise to implement. The initial difficulty we faced was to get the code build and running as the jedit server was down.

Classes and methods changed:

- `org/gjt/sp/jedit/menu/RecentFilesProvider.java`