

Change request log for CR-2

1. Concept Location

Step #	Description	Rationale
1	First we ran the system	
2	We interacted with the system and checked if the CR given is right, using the details shown in screenshots and matching them with actual system.	To verify the change request.
3	Tried to add more recent files in the recent files option by creating more files.	To search for file names using text.
4	Also observed the tool tip that was shown on the search box present in the recent files menu.	
5	Used the expand all functionality to expand all the folders and make all files in the project visible.	
6	Searched for keywords " RecentFiles " in the files.	Since the change request had something to do with the recent files option.
7	Found a file named RecentFilesProvider . We then checked the file for its contents.	
8	Found a tool tip in the file recent files.textfield.tooltip which had been set to a values which was being displayed on the search box for recent files as observed in previous steps.	
9	Found a comment which said Match start of file name which was exactly the issue in the change request.	
10	Thus, we concluded that this was the place of concept location.	

Time spent (in minutes): 10

Classes and methods inspected:

- public class RecentFilesProvider implements DynamicMenuProvider
 - public void keyReleased(KeyEvent e)
 - public void update(JMenu menu)

2. Impact Analysis

Step #	Description	Rationale
1	We observed that RecentFilesProvider implemented the interface DynamicMenuProvider which was used to provide a dynamic menu on gui.	
2	Hence, we discarded the impact of change in the DynamicMenuPrivoder.	Since its just an interface being implemented by RecentFilesProvider class and would not affect other classes implementing it.
3	Similarly the function update in the RecentFilesProvider class was not being called anywhere except it was just used to provide menu for the recent files.	
4	Changing the regex in the would just affect the search for recent files in the menu and nothing else.	Clearly the functions in the recentFileProvider were implemented from another interface and would not affect any other classes.

Time spent (in minutes): 5

Classes and methods inspected:

- public class RecentFilesProvider implements DynamicMenuProvider
 - public void keyReleased(KeyEvent e)
 - public void update(JMenu menu)

3. Prefactoring (optional)

No prefactoring was done in the code.

Time spent (in minutes): 0

4. Actualization

Step #	Description	Rationale
1	We created a new github branch from master.	To add changes on a new branch.
2	We prepended a * to the regex sop that the pattern looks like *typedtext* ..	This would find the filename as substring in the files.
3	We rebulilt the code and ran JEdit.	To check if the changes actually worked.
4	Typed searching names of multiple files in JEdit by using some part of filenames that was not in the beginning.	To check if regex was working correctly.
5	We committed the changes to github.	Since our changes worked and in case if we need to revert the change.

Time spent (in minutes): 5

Classes changed:

- public class RecentFilesProvider implements DynamicMenuProvider
 - public void keyReleased(KeyEvent e)
 - public void update(JMenu menu)

5. Postfactoring (optional)

No postfactoring was done in the code.

Time spent (in minutes): 0

6. Validation

Step #	Description	Rationale
1	Functional Test: Tried searching for various strings in the recent files. Input – es Expected Output – test1 Test2	All files present in the recent files menu containing substring est were shown. Test Passed.

	Test3	
2	Functional Test: Checked if search for beginning of file works as before. Input – un Output – Untitled-1 untitled-2 function.txt	All files present in the recent files menu containing substring unt were shown. It worked for beginning of the file, substring of filename as well. Test Passed.
3	Functional Test: Checked if the patterns such as *.c and *.txt worked.	All c and txt files present in the recent files menu were shown. Test Passed.
3	Functional Test: Tried using a single character to search filenames.	All files present in the recent files menu containing the input character were shown. Test Passed.

Time spent (in minutes): 10

7. Summary of the change request

Phase	Time (minutes)	No. of classes inspected	No. of classes changed	No. of methods inspected	No. of methods changes
Concept location	10	1	0	2	0
Impact Analysis	5	1	0	2	0
Prefactoring	0	0	0	0	0
Actualization	5	1	1	0	1
Postfactoring	0	0	0	0	0
Verification	10	1	0	0	0
Total	30	1	1	2	1

8. Conclusions

The actual change was extremely small and it was very easy to find the concept location. We used the intellij features for finding files with various names and for navigating through the source code using the find usage and find in files functionality of the IDE. We performed functional tests by searching various types of patterns present in the beginning, end and middle of file names. We did not perform refactoring of any type in the code and there was none needed.