

Change request log

1. Team

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2. Change Request

ID: 2

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 (see Figure 2). 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.

3. Concept Location

| Step # | Description | Rationale |
|--------|---|---|
| 1 | Searched classes in the repository for “Recent” | To search for code that deals with the Recent Files menu |
| 2 | Discovered the class <i>RecentFilesProvider</i> | Selected because it shares a similar name with the menu |
| 3 | Looked through the class to see where the search was being implemented | |
| 4 | Found the search functionality in public void <code>update(JMenu menu)</code> | |
| 5 | Decided that the ‘regex’ variable had to be modified | By changing the regex variable, the keyword can then be searched through the whole filename |
| 6 | Decided to modify regex by adding an additional asterisk | Allows the rest of the filename to be searched |

Time spent (in minutes): 40

4. Impact Analysis

| Step # | Description | Rationale |
|--------|--|---|
| 1 | Searched for any classes related to <i>RecentFilesProvider</i> | To track the classes that could be impacted by the change. |
| 2 | Found that the Recent Files menu is the only item that uses <i>RecentFilesProvider</i> | We realized this class did not need to be changed because it did not impact any other areas |

Time spent (in minutes): 30

5. Actualization

| Step # | Description | Rationale |
|--------|-------------|-----------|
|--------|-------------|-----------|

| | | |
|---|---|---|
| 1 | Added an asterisk to the beginning of the regex string variable in the <i>RecentFilesProvider</i> class and the method public void update(JMenu menu) | Allows the search to find keywords at any point in the filename |
|---|---|---|

Time spent (in minutes): 30

6. Validation

Use the table below to describe any validation activity (e.g., testing, code inspections, etc.) you performed for this change request. Include the description of each test case, the result (pass/fail) and its rationale.

| Step # | Description | Rationale |
|--------|--|--|
| 1 | Built and ran tests using the newly edited code | Tests passed |
| 2 | Added files and used the Recent Files menu to search for keywords in the filenames | All matching strings in the filenames are highlighted, test passed |

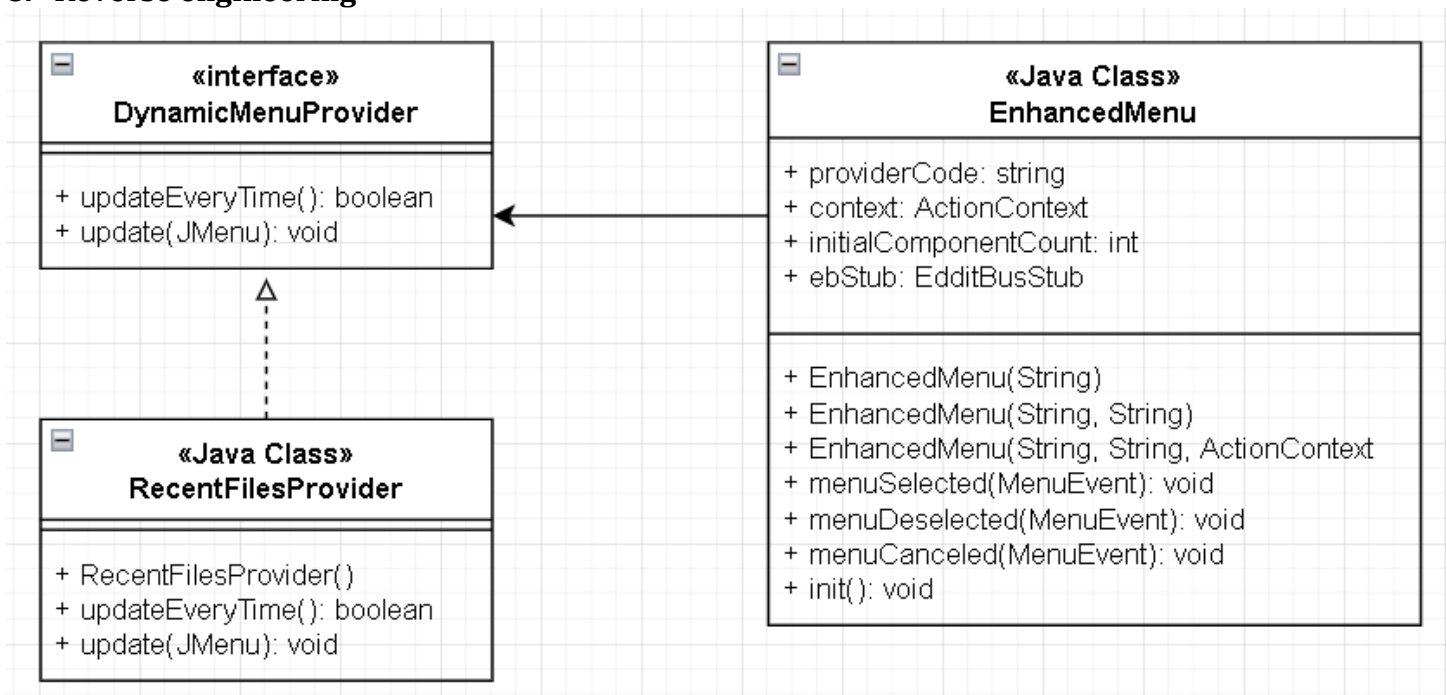
Time spent (in minutes): 20

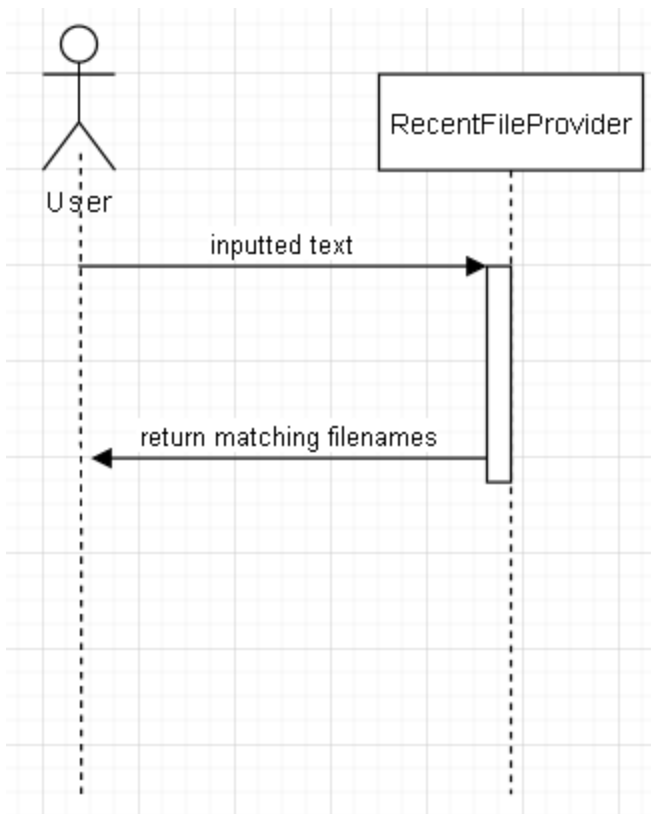
7. Timing

Summarize the time spent on each phase.

| Phase Name | Time (in minutes) |
|------------------|-------------------|
| Concept location | 40 |
| Impact Analysis | 30 |
| Actualization | 30 |
| Verification | 20 |
| Total | 120 |

8. Reverse engineering





9. Conclusions

For this change, concept location was particularly easy due to the simple naming scheme of the RecentFilesProvider class, as well as the simplicity of the code. Impact analysis was also easy, as the RecentFilesProvider class had very little interaction with the rest of the code. This also made testing very easy, as no modifications needed to be made anywhere else.

Classes/Methods changed:

- org/gjt/sp/jedit/menu/RecentFilesProvider.java
 - void update(JMenu menu)