Change request log

# Team

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# Change Request

Change request 4. Adding feature to clear recent directory section.

# Concept Location

* We used Ctrl + H to search every file in Eclipse IDE and Ctrl + F to search the lines of a single file.
* Queries: Searched for “Clear Recent Files”, “clear-recent-files.lable”, RecentFilesProvider, RecentDirectoriesProvider.
* RecentFilesProvider, RecentDirectoriesProvider
* RecentDirectoriesProvider (this is when concept location ends

|  |  |  |
| --- | --- | --- |
| Step # | Description | Rationale |
| 1 | *We ran the program* |  |
| 2 | *We opened a few files and tested out the clear recent file button.* | *To get familiar with the feature since it is very similar to what we are implementing.* |
| 3 | *We searched for " Clear Recent Files " using the search feature of the IDE's search tool.* | *Because we identified a button in the screen called " Clear Recent Files"* |
| 4 | *We got 2 results so we look into the one that is not in the installer directory.* |  |
| 5 | *We look into the file jedit\_en\_props to add our button for “Clear Recent Directories”* | *That is where the code for the buttons is.* |
| 6 | *We inspect RecentFilesProvider class to understand how recent files are cleared.* | *Similar feature* |
| 7 | *We inspect class RecentDirectoriesProvider because that is where we need to make changes to enable our feature* |  |

**Time spent (in minutes):** 54 minutes

# Impact Analysis

|  |  |  |
| --- | --- | --- |
| Step # | Description | Rationale |
| 1 | *We list out the classes and methods that require modification.* | *To track the classes that could be impacted by the change.* |
| 2 | *We look into the other buttons on the are where we want to add out new one* | *To see if our addition will cause any errors* |

**Time spent (in minutes):** 30 minutes

# Actualization

Use the table below to describe each step you followed when changing the code. Include as many details as possible, including why classes/methods were modified, added, removed, renamed, etc.

|  |  |  |
| --- | --- | --- |
| Step # | Description | Rationale |
| 1 | *We made the “Clear Recent Directories” button in jedit\_en.props.* | *This is the button that will be shown in the UI.* |
| 2 | *We add a JMenuItem in RecentDirectoriesProvider class which will be our new feature.* | *This class is what provides the data that we are looking to remove when clicked on the button.* |
| 3 | *We run the removeAllElements() method of our instance of the HistoryModel object in the file.* | *This clears the recent directories.* |
| 4 | *We build and test Jedit to ensure our feature is working.* |  |

**Time spent (in minutes):** 72 minutes

# Validation

|  |  |  |
| --- | --- | --- |
| Step # | Description | Rationale |
| 1 | *Test after visiting one directory* | *This is the regular expected behavior.*  *The test passed.* |
| 2 | *Test after visiting multiple directories* | *This is the regular expected behavior.*  *The test passed.* |
| 3 | *Test before visiting any directory* | *This is the regular expected behavior.*  *The test passed.* |

**Time spent (in minutes):** 32 minutes

# Timing

Summarize the time spent on each phase.

|  |  |
| --- | --- |
| Phase Name | Time (in minutes) |
| Concept location | 54 |
| Impact Analysis | 30 |
| Actualization | 72 |
| Verification | 32 |
| Total | 190 |

# Reverse engineering

Create a UML sequence diagram (or more if needed) corresponding to the main object interactions affected by your change.

Create a partial UML class diagram of the classes visited while navigating through the code. Include the associations between classes (e.g., inheritance, aggregations, compositions, etc.), as well as the important fields and methods of each class that you learn about. The diagram may have disconnected components. Use the UML tool of your preference. When a significant fact about a class or method is learned, indicate it via annotations on the diagram. **For each change request, start with the diagram produced in the previous change request. For the first, you will start from scratch.**

Diagram

Description automatically generated

# Conclusions

*The change process was fairly straight forward where we added a button for the user to click and added functionality to that button through the functions of the menu. We cleared out the data from the provider whenever the button is clicked.*

*The main challenge during this process was to map the new feature with the similar existing one and figure out which bits of the code we needed to change/add.*

*Classes and methods changed:*

* *org/jedit/localization/jedit\_en.props*
* *org/gjt/sp/jedit/menu/RecentDirectoriesProvider.java*