Change request log

1   Team

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2   Change Request

Currently, jEdit displays the horizontal and vertical scroll bars whenever the content of the opened document exceeds the size of the editor. Implement a Toggle Scroll Bars option in the View menu that allows to show/hide the scrollbars.

3   Concept Location

The following is an example of a concept location process for the change request "Add Toggle Scroll bars":

Step #	Description	Rationale
1	*We ran the system*	
2	*Searched for the words "scroll bars", "toggle scroll", "scroll" at the top-level directory using grep*	*As usually the name of the variables or comments match the functionality of what they are describing, I used this search to figure out the usage of different scrolls.*
3	*I skimmed through lot of the results*	*This helped to find the files with most used names of the scroll bars*
4	*While looking though the selected files, I searched to toggle gutter to use it as reference.*	*As toggle gutter also implements the similar type of feature this change request requires.*
5	*Looking through the toggle gutter change, I back tracked the related changes in other selected files*	*The implementation would look like how toggle gutter was implemented.*

Time spent (in minutes): 90

4   Impact Analysis

For this change request impact analysis

Step #	Description	Rationale
1	*Adding new methods in class TextArea and actions in textarea_actions.xml*	*Apart from these new attributes, there is no change to existing methods/actions. So the impact for this change request are minimal.*

| 2 | *The behavior for language props is not clear for other languages except English.* | *As the language props is not clear for other I dropped the other language changes.* |
| | | *(but later realized that this happens automatically when it is changed for English.)* |

Time spent (in minutes): 30

5 Actualization

Steps followed while making code changes.

Step #	Description	Rationale
1	*First item modified is the testarea_actions.xml. I added the new toggle-scroll-bar name to it. But with empty status and action.*	*Basic test I did here to verify I can see the new button for 'Toggle Scroll bars'*
2	*To get the current status of the scroll bar, I added the variable* `view.textarea.scrollbars.enabled` *to the jedit.props*	*This way I am able to see the current scroll bar status in the view button for this new 'Toggle Scroll bars' option.*
3	*Then I implement the toggleScroll in textArea class.* *Here I majorly toggle enable variable and passed it to both vertical and horizontal setVisible methos.*	*This tested the major functionality of the system, After, many iteration fixing the issues. I am able to hide the scroll bar.*

Time spent (in minutes): 60

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.

Make sure you time yourselves when going through this process and provide the total time spent below.

Step #	Description	Rationale
1	*Test case defined:* *Inputs: GUI (manual verification)* *Expected Under view menu, there is a 'Toggle Scorll bars' option*	*The 'Toggle Scorll bars' option is present under the view menu.* *The test passed.*
2	*Test case defined:* *Inputs: GUI (manual verification)*	*Based on the current the 'Toggle Scorll bars' option switched the scroll bars.* *The test passed.*

Expected output: The scroll bars are hidden when the 'Toggle Scorll bars' option under view menu is clicked	

Time spent (in minutes): 30

7 Timing

Summarize the time spent on each phase.

Phase Name	Time (in minutes)
Concept location	90
Impact Analysis	30
Prefactoring	
Actualization	60
Postfactoring	
Verification	30
Total	210

8 Conclusions

In my opinion, the primary skill used for the completion of this change request is searching the repository with the right keywords using grep. I am able to find similar changes for other options like toggleGutter. This helped me to track back the changes and implement this change request.
Classes and methods modified:
- *org/gjt/sp/jedit/jedit.props*
- *org/gjt/sp/jedit/jedit_gui.props*
- *org/gjt/sp/jedit/textarea/TextArea.java*
- *org/gjt/sp/jedit/textarea/textarea.actions.xml*