

I made the following updates to the code provided in order to fulfil the requirements of this assignment:

## Changes to Existing Methods

- I updated all of the handlers for the menu items (replace, search, font sizes) to get the current tab's JTextArea and perform the operations on only that text area.
- In the constructor of XText1breber, I updated the initialization of the content pane to be a JSplitPane that contains a JScrollPane (containing a JTree) in the left pane, and a JTabbedPane in the right pane. I built the base level of the JTree filesystem view in this method as well.
- I modified the xnewHandler() method to create a new tab in the JTabbedPane instead of checking to see if the current file is modified and replacing the view.
- I modified the openHandlerHelper() method to check to see if the given file was already open, and then open it if it isn't. This changes the functionality from the old single pane system.
- I modified the exitHandler() to loop through the open tabs and check each individually to see if it has been modified. If it has, it saves it and moves on to the next tab.
- The handlers specific to tabs (such as adding a right click menu and recording modification of the document) were moved to the new class TextPanebreber.

## Additions

- The XText1breber now implements TreeExpansionListener, TreeWillExpandListener and TreeSelectionListener. This allows the XText1 instance populate the JTree on demand, and remove elements when the JTree node is collapsed. It also allows files to be opened when they are clicked on.
- I added an inner class called TextPanebreber that is a JScrollPane wrapper for the JTextArea. It handles the logic for checking to see if the document is modified. It also keeps track of the name of the file currently opened in the tab. It is essentially everything needed specific to a given tab. It also handles opening the context menu when right clicking on the JTextArea.
- Added the class TabPaneWithIconsbreber that is an extension of JTabbedPane that checks to see if the icon on the tab has been clicked. If it has, it performs the exit operation on the tab that was clicked (save if changed, then close).
- Added custom icon CloseTabIconbreber. This is the code from the assignment PDF. It draws the X on the tab, and contains the bounds information used in checking to see if it was clicked.