Table1 The original class JEditTextArea in JEidt

Attributes Methods vertical	Original Class JEditTextArea		
vertical portical pertical per			
verticalBox view visibleLines add(String, Component) visibleLines add(CaretListener(CaretListener) wrap addExplicitFold() BOTTOM addFocusListener(FocusListener) CENTER addLetfofScrollBar(Component) ELECTRIC_SCROLL addMarker() LEFT addMouseWheelListener(MouseWheelListener) NORMAL_SCROLL addScrollListener(ScrollListener) NORMAL_SCROLL addScrollListener(ScrollListener) NOSCROLL AddScrollListener(ScrollListener) NOGSCROLL AddScrollListener(ScrollListener) Add Toselection(Selection) blink addToselection(Selection[]) buffer addTopComponent(Component) bufferChanging backspace() caret backspaceWord(boolean) caretEvent blinkCaret() caretBlinks caretEvent caretCine centerCaret() caretTimer centerCaret() caretTimer delete() charWidth delete(boolean) chunkCache deletetLine() dndCallback deletetParagraph() dndEnabled deleteToEndOfLine() dndEnabled deleteToEndOfLine() dndEnabled deleteToEndOfLine() focusedComponent deleteWord(boolean) gutter displayManager hardWrap horizontal doWordCount(View, String) horizontal doWordCount(View, String) listenerList expandFold(boolean) listenerList expandFold(boolean) listenerList expandFold(boolean) listenerList expandFold(boolean)			
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horizontalOffset doWordWrap(boolean) lineSegment enableEvents(long) listenerList expandFold(boolean)	hardWrap	dispose()	
lineSegment enableEvents(long) listenerList expandFold(boolean)	horizontal	doWordCount(View, String)	
listenerList expandFold(boolean)	horizontalOffset	doWordWrap(boolean)	
	lineSegment	enableEvents(long)	
magicCaret extendSelection(int, int)	listenerList	expandFold(boolean)	
	magicCaret	extendSelection(int, int)	
match extendSelection(int, int, int)	match	extendSelection(int, int, int)	
maxHorizontalScrollWidth finishCaretUpdate(boolean, boolean)	maxHorizontalScrollWidth	finishCaretUpdate(boolean, boolean)	
maxLineLen fireCaretEvent()	maxLineLen	fireCaretEvent()	
mouseHandler fireScrollEvent(boolean)	mouseHandler	fireScrollEvent(boolean)	
overwrite foldStructureChanged()	overwrite	foldStructureChanged()	

formatParagraph() painter physLastLine getBorder() popup getBuffer() popupEnabled getBufferLength() queued Caret UpdategetCaretLine() queuedFireCaretEvent getCaretPosition() queuedScrollToElectric getDisplayManager() quickCopy getDragAndDropCallback() trace getDropTarget() tabSize getElectricScroll() multi getFirstLine() lastLinePartial getFirstPhysicalLine() structureMatchers getFocusCycleRoot() structureTimer getFocusTraversalKeysEnabled() selection getGutter() getHorizontalOffset() getLastPhysicalLine() getLineCount() getLineEndOffset(int) getLineLength(int) getLineOfOffset(int) getLineStartOffset(int) getLineText(int) getLineText(int, text.Segment) getMagicCaretPosition() getMarkLine() getMarkPosition() getPainter() getPhysicalLineOfScreenLine(int) getRectParams(int, int) getRightClickPopup() getScreenLineEndOffset(int) getScreenLineOfOffset(int) getScreenLineStartOffset(int) getSelectedLines() getSelectedText() getSelectedText(String) getSelectedText(Selection) getSelection() getSelectionAtOffset(int) getSelectionCount() getSelectionEnd() getSelectionEnd(int) getSelectionEndLine()

```
getSelectionStart()
getSelectionStart(int)
getSelectionStartAndEnd(int, int, Selection)
getSelectionStartLine()
getStructureMatch()
getText()
getText(int, int)
getText(int, int, text.Segment)
getToolkit()
getTransferHandler()
getView()
getVisibleLines()
getWidth()
goToBufferEnd(boolean)
goToBufferStart(boolean)
goToEndOfLine(boolean)
goToEndOfWhiteSpace(boolean)
goToFirstVisibleLine(boolean)
goToLastVisibleLine(boolean)
goToMarker(char, boolean)
goToMatchingBracket()
goToNextBracket(boolean)
goToNextCharacter(boolean)
goToNextFold(boolean)
goToNextLine(boolean)
goToNextMarker(boolean)
goToNextPage(boolean)
goToNextParagraph(boolean)
goToNextWord(boolean)
goToNextWord(boolean, boolean)
goToParentFold()
goToPrevBracket(boolean)
goToPrevCharacter(boolean)
goToPrevFold(boolean)
goToPrevLine(boolean)
goToPrevMarker(boolean)
goToPrevPage(boolean)
goToPrevParagraph(boolean)
goToPrevWord(boolean)
goToPrevWord(boolean, boolean)
goToStartOfLine(boolean)
goToStartOfWhiteSpace(boolean)
handlePopupTrigger(MouseEvent)
hasFocus()
```

indentSelectedLines() insertEnterAndIndent() insertTab() insertTabAndIndent() insideSelection(int, int) invalidateLine(int) invalidateLineRange(int, int) invalidateScreenLineRange(int, int) invalidateSelectedLines() invertSelection() isCaretBlinkEnabled() isCaretVisible() isDragEnabled() isDragInProgress() isEditable() isMultipleSelectionEnabled() isOverwriteEnabled() isQuickCopyEnabled() is Rectangular Selection Enabled ()isRightClickPopupEnabled() isSelectionRectangular() isShowing() isStructureHighlightVisible() joinLines() lineComment() lineInStructureScope(int) moveCaretPosition(int) moveCaretPosition(int, boolean) moveCaretPosition(int, int) narrowToFold() narrowToSelection() offsetToXY(int) offsetToXY(int, int, Point) processKeyEvent(KeyEvent) propertiesChanged() rangeComment() recalculateLastPhysicalLine() recalculateVisibleLines() rectangularSelectionMode remove(Component) removeCaretListener(CaretListener)removeFromSelection(int) removeFromSelection(Selection) removeLeftOfScrollBar(Component)

```
removeNotify()
removeScrollListener(ScrollListener)
removeStructureMatcher(StructureMatcher)
removeTopComponent(Component)
removeTrailingWhiteSpace()
repaint()
requestFocus()
resizeSelection(int, int, int, boolean)
returnValue
revalidate()
screenLastLine
scrollBarsInitialized
scrollDownLine()
scrollDownPage()
scrollTo(int, boolean)
scrollTo(int, int, boolean)
scrollToCaret(boolean)
scrollUpLine()
scrollUpPage()
select(int, int)
select(int, int, boolean)
selectAll()
selectBlock()
selectFold()
selectFold(int)
selectLine()
selectNone()
selectParagraph()
selectToMatchingBracket()
selectToMatchingBracket(int, boolean)
selectWord()
setBorder(border.Border)
setBuffer(Buffer)
setCaretBlinkEnabled(boolean)
setCaretPosition(int)
setCaretPosition(int, boolean)
setDragAndDropCallback(reflect.Method)
setDragEnabled(boolean)
setDragInProgress(boolean)
setElectricScroll(int)
setFirstLine(int)
setFirstPhysicalLine(int)
setFirstPhysicalLine(int, int)
setHorizontalOffset(int)
```

```
setLayout(LayoutManager)
setMagicCaretPosition(int)
setMultipleSelectionEnabled(boolean)
setOverwriteEnabled(boolean)
setQuickCopyEnabled(boolean)
setRectangularSelectionEnabled(boolean)
setRightClickPopup(JPopupMenu)
setRightClickPopupEnabled(boolean)
setSelectedText(String)
setSelectedText(String, boolean)
setSelectedText(Selection, String)
setSelection(Selection)
setSelection(Selection[])
setSelectionEnd(int)
setSelectionStart(int)
setText(String)
setTransferHandler(TransferHandler)
shiftIndentLeft()
shiftIndentRight()
shiftTallCaretLeft(Selection$Rect)
showGoToLineDialog()
showSelectLineRangeDialog()
showStructureStatusMessage(boolean)
showWordCountDialog()
smartEnd(boolean)
smartHome(boolean)
spacesToTabs()
startDragAndDrop(InputEvent, boolean)
swapMarkerAndCaret(char)
tabsToSpaces()
tallCaretDelete(Selection$Rect, boolean)
toLowerCase()
toUpperCase()
toggleMultipleSelectionEnabled()
toggleOverwriteEnabled()
toggleRectangularSelectionEnabled()
updateBracketHighlightWithDelay()
updateMaxHorizontalScrollWidth()
updateScrollBars()
updateStructureHighlight()
userInput(char)
xToScreenLineOffset(int, int, boolean)
xyToOffset(int, int)
xyToOffset(int, int, boolean)
```

Table2 The new classes extracted by developers

Class Extracted by the Developers - 1	
Attributes	Methods
selection	getSelectionStart()
	getSelectionStart(int)
	getSelectionStartLine()
	setSelectionStart(int)
	getSelectionEnd()
	getSelectionEnd(int)
	getSelectionEndLine()
	setSelectionEnd(int)
	getSelectionCount()
	setSelection(Selection[])
	setSelection(Selection)
	addToSelection(Selection[])
	addToSelection(Selection)
	getSelectionStartAndEnd(int, int)
	extendSelection(int , int)
	extendSelection(int, int, int)
Class Extracted by the Devel	lopers - 2
Attributes	Methods
NO_SCROLL	getFoldPainterName()
mouseHandler	getFocusTraversalKeysEnabled()
scrollBarsInitialized	getFocusCycleRoot()
wrap	
Class Extracted by the Devel	lopers - 3
Attributes	Methods
NORMAL_SCROLL	dispose()
ELECTRIC_SCROLL	getPainter()
view	getGutter()
lineSegment	getDisplayManager()
chunkCache	isCaretBlinkEnabled()
displayManager	setCaretBlinkEnabled(boolean)
bufferChanging	getElectricScroll()
max Horizontal Scroll Width	setElectricScroll(int)
hardWrap	isQuickCopyEnabled()
tabSize	setQuickCopyEnabled(boolean)
charWidth	getBuffer()
maxLineLen	setBuffer(Buffer)
lastLinePartial	isEditable()
caretTimer	isDragInProgress()
structureTimer	setDragInProgress(boolean)
focusedComponent	isDragEnabled()
gutter	setDragEnabled(boolean)

painter getFirstLine()
popup setFirstLine(int)
popupEnabled getFirstPhysicalLine()
listenerList setFirstPhysicalLine(int)
caretEvent setFirstPhysicalLine(int, int)

caretBlinks getLastPhysicalLine()
blink getVisibleLines()
physLastLine getHorizontalOffset()
screenLastLine setHorizontalOffset(int)

visibleLines scrollUpLine()
electricScroll scrollUpPage()
horizontalOffset scrollDownLine()
quickCopy scrollDownPage()
verticalBox scrollToCaret(boolean)
vertical scrollTo(int, boolean)
horizontal scrollTo(int, int, boolean)

 buffer
 addScrollListener(ScrollListener)

 caret
 removeScrollListener(ScrollListener)

 caretLine
 getPhysicalLineOfScreenLine(int)

 caretScreenLine
 getScreenLineOfOffset(int)

structureMatchers getScreenLineStartOffset(int)
match getScreenLineEndOffset(int)

magicCaret xyToOffset(int , int)

multi xyToOffset(int , int , boolean)

overwrite xToScreenLineOffset(int, int, boolean)

rectangularSelectionMode offsetToXY(int)

dndEnabled offsetToXY(int, int, Point)

dndInProgress invalidateScreenLineRange(int, int)

queuedCaretUpdate invalidateLine(int)

queuedFireCaretEvent invalidateLineRange(int, int)

getBufferLength()
getLineCount()
getLineOfOffset(int)
getLineStartOffset(int)
getLineEndOffset(int)
getLineLength(int)

getText()

getText(int, int)

getText(int, int, Segment)

getLineText(int)

getLineText(int, Segment)

setText(String)
selectAll()
selectLine()

```
selectParagraph()
selectWord()
selectToMatchingBracket(int, boolean)
selectToMatchingBracket()
selectBlock()
lineInStructureScope(int)
selectNone()
getSelectedText(Selection)
getSelectedText(String)
getSelectedText()
setSelectedText(Selection, String)
setSelectedText(String)
setSelectedText(String, boolean)
addStructureMatcher(StructureMatcher)
remove Structure Matcher (Structure Matcher) \\
getStructureMatch()
blinkCaret()
centerCaret()
setCaretPosition(int)
setCaretPosition(int, boolean)
moveCaretPosition(int)
moveCaretPosition(int, boolean)
moveCaretPosition(int, int)
getCaretPosition()
getCaretLine()
getMagicCaretPosition()
setMagicCaretPosition(int)
addCaretListener(CaretListener)
removeCaretListener(CaretListener)
goToNextBracket(boolean)
goToNextCharacter(boolean)
goToNextLine(boolean)
goToNextPage(boolean)
goToNextParagraph(boolean)
goToNextWord(boolean)
goToNextWord(boolean)
goToPrevBracket(boolean)
goToPrevCharacter(boolean)
goToPrevLine(boolean)
goToPrevPage(boolean)
goToPrevParagraph(boolean)
goToPrevWord(boolean)
goToPrevWord(boolean, boolean)
goToStartOfLine(boolean)
```

```
goToEndOfLine(boolean)
goToStartOfWhiteSpace(boolean)
goToEndOfWhiteSpace(boolean)
goToFirstVisibleLine(boolean)
goToLastVisibleLine(boolean)
goToMatchingBracket()
isOverwriteEnabled()
toggleOverwriteEnabled()
backspace()
backspaceWord()
backspaceWord(boolean)
delete()
deleteToEndOfLine()
deleteLine()
deleteToStartOfLine()
deleteWord()
deleteWord(boolean)
isMultipleSelectionEnabled()
toggleMultipleSelectionEnabled()
is Rectangular Selection Enabled ()\\
goToParentFold()
goToNextFold(boolean)
goToPrevFold(boolean)
collapseFold()
expandFold(boolean fully)
selectFold()
selectFold(int line)
narrowToFold()
narrowToSelection()
lineComment()
rangeComment()
spacesToTabs()
tabsToSpaces()
toUpperCase()
toLowerCase()
removeTrailingWhiteSpace()
insertEnterAndIndent()
insertTabAndIndent()
indentSelectedLines()
shiftIndentLeft()
shiftIndentRight()
addLeftOfScrollBar(Component)
remove Left Of Scroll Bar (Component) \\
addNotify()
```

```
removeNotify()
addTopComponent(Component)
removeTopComponent(Component)
getMarkPosition()
getMarkLine()
isCaretVisible()
isStructureHighlightVisible()
updateMaxHorizontalScrollWidth()
recalculateVisibleLines()
foldStructureChanged()
_finishCaretUpdate()
invalidateSelectedLines()
fireCaretEvent()
fireScrollEvent(boolean vertical)
insertTab()
doWordWrap(boolean spaceInserted)
updateBracketHighlightWithDelay()
updateStructureHighlight()
showStructureStatusMessage(boolean)
recalculateLastPhysicalLine()
getRectParams(int, int)
delete()
tallCaretDelete(Selection.Rect, boolean)
shiftTallCaretLeft(Selection.Rect)
isRightClickPopupEnabled()
setRightClickPopupEnabled(booleanEnabled)
getRightClickPopup()
setRightClickPopup(JPopupMenu)
getSelectionAtOffset(int)
removeFromSelection(Selection)
resizeSelection(int, int, int, boolean)
invertSelection()
insideSelection(int, int)
smartHome(boolean)
smartEnd(boolean)
goToBufferEnd(boolean)
goToBufferStart(boolean)
showGoToLineDialog()
userInput(char ch)
addExplicitFold()
formatParagraph()
doWordCount(View, String text)
showWordCountDialog()
select(int, int end)
```

select(int, int end, boolean)
handlePopupTrigger(MouseEvent)

Table3 The new classes extracted by our approach

Class Extracted our approach - 1	
Attributes	Methods
scrollBarsInitialized	requestFocus()
tabSize	setFirstPhysicalLine(int)
wrap	repaint()
hardWrap	addTopComponent(Component)
blink	hasFocus()
structureMatchers	bufferChanging
popupEnabled	doWordCount(View, String)
verticalBox	isCaretVisible()
maxLineLen	removeStructureMatcher(StructureMatcher)
charWidth	addStructureMatcher(StructureMatcher)
returnValue	isRightClickPopupEnabled()
vertical	setRightClickPopupEnabled(boolean)
mouseHandler	removeLeftOfScrollBar(Component)
lineSegment	addLeftOfScrollBar(Component)
match	addFocusListener(FocusListener)
focusedComponent	setBorder(Border)
gutter	setLayout(LayoutManager)
horizontal	enableEvents(long)
view	getStructureMatch()
overwrite	getGutter()
rectangularSelectionMode	JEditTextArea(View)
painter	formatParagraph()
visibleLines	showStructureStatusMessage(boolean)
caretEvent	setMultipleSelectionEnabled(boolean)
listenerList	setRectangularSelectionEnabled(boolean)
	showWordCountDialog()
	toggleMultipleSelectionEnabled()
	toggleRectangularSelectionEnabled()
	toggleOverwriteEnabled()
	smartHome(boolean)
	smartEnd(boolean)
	showGoToLineDialog()
	getView()
	processKeyEvent(KeyEvent)
	showSelectLineRangeDialog()
	isRectangularSelectionEnabled()
	isOverwriteEnabled()
	getHorizontalOffset()

setHorizontalOffset(int)
horizontalOffset
getPainter()
getVisibleLines()
centerCaret()
xyToOffset(int, int, boolean)
updateMaxHorizontalScrollWidth()
removeNotify()
maxHorizontalScrollWidth
add(String, Component)
fireScrollEvent(boolean)
removeCaretListener(CaretListener)
removeScrollListener(ScrollListener)
addCaretListener(CaretListener)
addScrollListener(ScrollListener)
fireCaretEvent()
· · · · · · · · · · · · · · · · · · ·

Class Extracted our approach - 2

Attributes	Methods
RIGHT	revalidate()
TOP	getTransferHandler()
physLastLine	getFocusCycleRoot()
LEFT	isShowing()
BOTTOM	getLastPhysicalLine()
CENTER	dispose()
dndInProgress	getFocusTraversalKeysEnabled()
caretBlinks	removeTopComponent(Component)
trace	remove(Component)
screenLastLine	getBorder()
chunkCache	setDragInProgress(boolean)
displayManager	isDragInProgress()
multi	isCaretBlinkEnabled()
caret	scrollUpLine()
caretLine	scrollDownLine()
selection	delete()
buffer	backspace()
	getSelectedText()
	setSelectedText(String)
	deleteWord()
	backspaceWord()
	goToNextWord(boolean)
	goToPrevWord(boolean)
	getWidth()
	getToolkit()
	extendSelection(int, int)

```
moveCaretPosition(int)
selectNone()
recalculateLastPhysicalLine()
foldStructureChanged()
getPhysicalLineOfScreenLine(int)
handlePopupTrigger(MouseEvent)
setFirstLine(int)
getFirstPhysicalLine()
getFirstLine()
setFirstPhysicalLine(int, int)
isStructureHighlightVisible()
offsetToXY(int, int, Point)
addNotify()
xToScreenLineOffset(int, int, boolean)
getDisplayManager()
finishCaretUpdate(boolean, boolean)
updateScrollBars()
propertiesChanged()
invalidate Screen Line Range (int, int) \\
scrollTo(int, int, boolean)
getScreenLineEndOffset(int)
getScreenLineStartOffset(int)\\
getScreenLineOfOffset(int)
invalidateLineRange(int, int)
recalculateVisibleLines()
setOverwriteEnabled(boolean)
updateStructureHighlight()
isMultipleSelectionEnabled()
selectParagraph()
selectLine()
selectToMatchingBracket(int, boolean)
selectWord()
selectFold(int)
blinkCaret()
_finishCaretUpdate()
lineInStructureScope(int)
setCaretBlinkEnabled(boolean)
selectFold()
addToSelection(Selection[])
addToSelection(Selection)
deleteParagraph()
insertEnterAndIndent()
joinLines()
getCaretLine()
```

```
narrowToFold()
moveCaretPosition(int, int)
goToLastVisibleLine(boolean)
goToParentFold()
getBuffer()
setBuffer(org.gjt.sp.jedit.Buffer)
doWordWrap(boolean)
getMagicCaretPosition()
selectToMatchingBracket()
isSelectionRectangular()
getCaretPosition()
goToFirstVisibleLine(boolean)
goToNextParagraph(boolean)
lineComment()
setSelectedText(String, boolean)
goToPrevBracket(boolean)
goToNextBracket(boolean)
goToPrevMarker(boolean)
goToMarker(char, boolean)
goToNextMarker(boolean)
goToBufferEnd(boolean)
goToBufferStart(boolean)
goToPrevParagraph(boolean)
expandFold(boolean)
goToNextPage(boolean)
goToPrevPage(boolean)
goToNextLine(boolean)
goToPrevLine(boolean)
goToNextFold(boolean)
goToPrevFold(boolean)
collapseFold()
deleteLine()
goToPrevWord(boolean, boolean)
goToNextWord(boolean, boolean)
goToPrevCharacter(boolean)
goToEndOfLine(boolean)
goToStartOfLine(boolean)
scrollToCaret(boolean)
goToMatchingBracket()
deleteToEndOfLine()
deleteToStartOfLine()
insertTab()
goToStartOfWhiteSpace(boolean)
goToNextCharacter(boolean)
```

```
selectBlock()
getSelectionStartAndEnd(int, int, Selection)
getMarkPosition()
getRectParams(int, int)
rangeComment()
addMarker()
userInput(char)
extendSelection(int, int, int, int)
addExplicitFold()
_addToSelection(Selection)
getMarkLine()
getSelectedLines()
removeFromSelection(Selection)
removeFromSelection(int)
invalidateSelectedLines()
resizeSelection(int, int, int, boolean)
getSelectionAtOffset(int)
deleteWord(boolean)
backspaceWord(boolean)
insertTabAndIndent()
getSelectionStart(int)
getSelectionEnd(int) \\
delete(boolean)
getSelectionEnd()
getSelectionStart()
getSelectionEndLine()
getSelectionStartLine()
getSelectedText(String)
invertSelection()
narrowToSelection()
setSelection(Selection[])
getSelectionCount()
getSelection()
setSelection(Selection)
setCaretPosition(int)
setCaretPosition(int, boolean)
goToEndOfWhiteSpace(boolean)
invalidateLine(int)
xyToOffset(int, int)
insideSelection(int, int)
getLineOfOffset(int)
getText(int, int)
offsetToXY(int)
scrollTo(int, boolean)
```

	indentSelectedLines()
	removeTrailingWhiteSpace()
	shiftIndentLeft()
	selectAll()
	swapMarkerAndCaret(char)
	getText(int, int, Segment)
	shiftIndentRight()
	isEditable()
	toLowerCase()
	toUpperCase()
	spacesToTabs()
	tabsToSpaces()
	getText()
	setText(String)
	getSelectedText(Selection)
	setSelectedText(Selection, String)
	getBufferLength()
	getLineText(int, Segment)
	getLineCount()
	getLineEndOffset(int)
	getLineStartOffset(int)
	getLineLength(int)
	tallCaretDelete(Selection\$Rect, boolean)
	shiftTallCaretLeft(Selection\$Rect)
	getLineText(int)
Class Extracted arm appropri	ala 2

Class Extracted our approach - 3

Attributes	Methods
magicCaret	setDragAndDropCallback(Method)
dndCallback	startDragAndDrop(InputEvent, boolean)
popup	getDragAndDropCallback()
electricScroll	setTransferHandler(TransferHandler)
quickCopy	addMouseWheelListener(MouseWheelListener)
dndEnabled	getDropTarget()
lastLinePartial	setRightClickPopup(JPopupMenu)
caretScreenLine	getRightClickPopup()
queuedFireCaretEvent	getElectricScroll()
queuedScrollToElectric	setElectricScroll(int)
queuedCaretUpdate	setQuickCopyEnabled(boolean)
caretTimer	isQuickCopyEnabled()
NO_SCROLL	isDragEnabled()
NORMAL_SCROLL	setDragEnabled(boolean)
ELECTRIC_SCROLL	select(int, int, boolean)
structureTimer	select(int, int)
	setSelectionEnd(int)

setSelectionStart(int)
scrollDownPage()
scrollUpPage()
1 0 "
static {}
moveCaretPosition(int, boolean)
updateBracketHighlightWithDelay()
setMagicCaretPosition(int)

Table 4 The new classes extracted by Bavota's approach[14]

Class Extracted Bavota's app	roacn - 1
Attributes	Methods
visibleLines	addTopComponent(Component)
match	backspace()
multi	backspaceWord()
overwrite	delete()
painter	deleteWord()
verticalBox	dispose()
horizontalOffset	getFocusCycleRoot()
physLastLine	getFocusTraversalKeysEnabled()
dndInProgress	goToNextWord(boolean)
quickCopy	getStructureMatch()
dndEnabled	isMultipleSelectionEnabled()
popup	isOverwriteEnabled()
popupEnabled	getPainter()
rectangularSelectionMode	getLastPhysicalLine()
selection	isRectangularSelectionEnabled()
view	removeTopComponent(Component)
structureMatchers	select(int, int)
	isDragInProgress()
	setDragInProgress(boolean)
	setFirstPhysicalLine(int)
	getHorizontalOffset()
	setHorizontalOffset(int)
	isQuickCopyEnabled()
	setQuickCopyEnabled(boolean)
	isDragEnabled()
	setDragEnabled(boolean)
	getElectricScroll()
	setElectricScroll(int)
	getRightClickPopup()
	setRightClickPopup(JPopupMenu)
	isRightClickPopupEnabled()
	setRightClickPopupEnabled(boolean)
	getSelectionCount()

doWordCount(View, String)
getSelectedText()
setSelectedText(String)
addStructureMatcher(StructureMatcher)
removeStructureMatcher(StructureMatcher)
addLeftOfScrollBar(Component)
removeLeftOfScrollBar(Component)
toggleOverwriteEnabled()
showGoToLineDialog()
smartEnd(boolean)
smartHome(boolean)
centerCaret()
getVisibleLines()

Class Extracted Bavota's approach - 2

Class Extracted Bavota's approach - 2	
Attributes	Methods
buffer	removeNotify()
gutter	getGutter()
charWidth	focusedComponent
maxLineLen	fireCaretEvent()
bufferChanging	remove Caret Listener (javax.swing.event. Caret Listener)
magicCaret	fireScrollEvent(boolean)
horizontal	addCaretListener(javax.swing.event.CaretListener)
mouseHandler	addScrollListener(ScrollListener)
caretEvent	removeScrollListener(ScrollListener)
caretScreenLine	updateBracketHighlightWithDelay()
maxHorizontalScrollWidth	scrollUpLine()
blink	scrollDownLine()
caretTimer	isCaretVisible()
ELECTRIC_SCROLL	isCaretBlinkEnabled()
NORMAL_SCROLL	setSelectionEnd(int)
NO_SCROLL	setSelectionStart(int)
structureTimer	scrollDownPage()
queuedCaretUpdate	scrollUpPage()
queuedFireCaretEvent	setMagicCaretPosition(int)
vertical	displayManager
hardWrap	extendSelection(int, int)
tabSize	selectNone()
chunkCache	moveCaretPosition(int)
wrap	updateMaxHorizontalScrollWidth()
caret	handlePopupTrigger(java.awt.event.MouseEvent)
listenerList	recalculateLastPhysicalLine()
caretBlinks	setFirstLine(int)
screenLastLine	getFirstPhysicalLine()
electricScroll	getFirstLine()

lastLinePartial foldStructureChanged() lineSegment getPhysicalLineOfScreenLine(int) scrollBarsInitialized setCaretPosition(int) caretLine setSelection(Selection) addToSelection(Selection) isStructureHighlightVisible() getDisplayManager() toggleMultipleSelectionEnabled() selectLine() selectParagraph() getSelectionAtOffset(int) narrowToSelection() blinkCaret() resizeSelection(int, int, int, boolean) removeFromSelection(int) lineInStructureScope(int) selectFold() invalidateSelectedLines() selectToMatchingBracket() getSelectionEndLine() getSelectionStartLine() getSelectionEnd() getSelectionStart() updateStructureHighlight() getCaretLine() getMarkPosition() getCaretPosition() getMarkLine() goToPrevBracket(boolean) goToLastVisibleLine(boolean) goToNextParagraph(boolean) goToFirstVisibleLine(boolean) getMagicCaretPosition() goToEndOfLine(boolean) goToEndOfWhiteSpace(boolean) goToStartOfLine(boolean) goToPrevParagraph(boolean) goToPrevCharacter(boolean) goToNextPage(boolean) goToPrevPage(boolean) expandFold(boolean) _finishCaretUpdate() getSelectionStartAndEnd(int, int, Selection) addExplicitFold()

```
getRectParams(int, int)
rangeComment()
formatParagraph()
recalculateVisibleLines()
goToNextCharacter(boolean)
setBuffer(Buffer)
invalidateScreenLineRange(int, int)
invalidateLine(int)
doWordWrap(boolean)
goToStartOfWhiteSpace(boolean)
collapseFold()
goToPrevLine(boolean)
goToNextLine(boolean)
goToPrevFold(boolean)
goToNextFold(boolean)
deleteLine()
selectBlock()
addNotify()
goToBufferStart(boolean)
goToBufferEnd(boolean)
setCaretBlinkEnabled(boolean)
goToParentFold()
insertTabAndIndent()
deleteToStartOfLine()
deleteToEndOfLine()
goToNextBracket(boolean)
narrowToFold()
goToMatchingBracket()
insertTab()
invalidateLineRange(int, int)
scrollToCaret(boolean)
show Structure Status Message (boolean) \\
getScreenLineOfOffset(int)
getScreenLineStartOffset(int)
getScreenLineEndOffset(int)
lineComment()
insertEnterAndIndent()
invertSelection()
selectWord()
showWordCountDialog()
getBuffer()
getLineOfOffset(int)
getBufferLength()
getLineCount()
```

getLineEndOffset(int) getLineStartOffset(int) getLineLength(int) scrollTo(int, boolean) shift Tall Caret Left (Selection \$Rect)tallCaretDelete(Selection\$Rect, boolean) selectAll() offsetToXY(int)shiftIndentLeft() getLineText(int) shiftIndentRight() isEditable() removeTrailingWhiteSpace() insideSelection(int, int) indentSelectedLines() getText() setText(String) spacesToTabs() tabsToSpaces() toLowerCase() toUpperCase() userInput(char) xToScreenLineOffset(int, int, boolean) xyToOffset(int, int)

Table 5 The new classes extracted by Fokaefs' approach

Class Extracted Fokaefs' approach - 1	
Attributes	Methods
caretBlinks	scrollUpLine()
screenLastLine	scrollDownLine()
electricScroll	isCaretVisible()
lastLinePartial	isCaretBlinkEnabled()
lineSegment	setSelectionEnd(int)
chunkCache	setSelectionStart(int)
displayManager	scrollBarsInitialized
caret	scrollDownPage()
buffer	scrollUpPage()
caretLine	setMagicCaretPosition(int)
	extendSelection(int, int)
	selectNone()
	moveCaretPosition(int)
	updateMaxHorizontalScrollWidth()
	handlePopupTrigger(java.awt.event.MouseEvent)
	recalculateLastPhysicalLine()

```
setFirstLine(int)
getFirstPhysicalLine()
getFirstLine()
foldStructureChanged()
getPhysicalLineOfScreenLine(int)
setCaretPosition(int)
setSelection(Selection)
addToSelection(Selection)
isStructureHighlightVisible()
getDisplayManager()
toggleMultipleSelectionEnabled()
selectLine()
selectParagraph()
getSelectionAtOffset(int)
narrowToSelection()
blinkCaret()
resizeSelection(int, int, int, boolean)
removeFromSelection(int)
lineInStructureScope(int)
selectFold()
invalidateSelectedLines()
selectToMatchingBracket()\\
getSelectionEndLine()
getSelectionStartLine()
getSelectionEnd()
getSelectionStart()
updateStructureHighlight()
getCaretLine()
getMarkPosition()
getCaretPosition()
getMarkLine()
goToPrevBracket(boolean)
goToLastVisibleLine(boolean)
goToNextParagraph (boolean) \\
goToFirstVisibleLine(boolean)
getMagicCaretPosition()
goToEndOfLine(boolean)
goToEndOfWhiteSpace (boolean) \\
goToStartOfLine(boolean)
goToPrevParagraph(boolean)
goToPrevCharacter(boolean)
goToNextPage(boolean)
goToPrevPage(boolean)
expandFold(boolean)
```

```
_finishCaretUpdate()
getSelectionStartAndEnd(int, int, Selection)
addExplicitFold()
getRectParams(int, int)
rangeComment()
formatParagraph()
recalculateVisibleLines()
goToNextCharacter(boolean)
setBuffer(Buffer)
invalidateScreenLineRange(int, int)
invalidateLine(int)
doWordWrap(boolean)
goToStartOfWhiteSpace(boolean)
collapseFold()
goToPrevLine(boolean)
goToNextLine(boolean)
goToPrevFold(boolean)
goToNextFold(boolean)
deleteLine()
selectBlock()
addNotify()
goToBufferStart(boolean)\\
goToBufferEnd(boolean)
set CaretBlinkEnabled (boolean) \\
goToParentFold()
insertTabAndIndent()
deleteToStartOfLine()
deleteToEndOfLine()
goToNextBracket(boolean)
narrowToFold()
goToMatchingBracket()
insertTab()
invalidateLineRange(int, int)
scrollToCaret(boolean)
showStructureStatusMessage(boolean)
getScreenLineOfOffset(int)
getScreenLineStartOffset(int)
getScreenLineEndOffset(int)
lineComment()
insertEnterAndIndent()
invertSelection()
selectWord()
showWordCountDialog()\\
getBuffer()
```

	getLineOfOffset(int)
	getBufferLength()
	getLineCount()
	getLineEndOffset(int)
	getLineStartOffset(int)
	getLineLength(int)
	scrollTo(int, boolean)
	shiftTallCaretLeft(Selection\$Rect)
	tallCaretDelete(Selection\$Rect, boolean)
	selectAll()
	offsetToXY(int)
	shiftIndentLeft()
	getLineText(int)
	shiftIndentRight()
	isEditable()
	removeTrailingWhiteSpace()
	insideSelection(int, int)
	indentSelectedLines()
	getText()
	setText(java.lang.String)
	xToScreenLineOffset(int, int, boolean)
	xyToOffset(int, int)
Class Establish LEstas Colon	

Class Extracted Fokaefs' app	roach - I	2
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Attributes	Methods
vertical	maxHorizontalScrollWidth
hardWrap	removeNotify()
tabSize	getGutter()
wrap	fireCaretEvent()
gutter	removeCaretListener(CaretListener)
charWidth	fireScrollEvent(boolean)
maxLineLen	addCaretListener(CaretListener)
bufferChanging	addScrollListener(ScrollListener)
magicCaret	removeScrollListener(ScrollListener)
horizontal	updateBracketHighlightWithDelay()
focusedComponent	spacesToTabs()
mouseHandler	tabsToSpaces()
caretEvent	toLowerCase()
caretScreenLine	toUpperCase()
listenerList	userInput(char)
blink	
caretTimer	
ELECTRIC_SCROLL	
NORMAL_SCROLL	
NO_SCROLL	

structureTimer	
queuedCaretUpdate	
queuedFireCaretEvent	

queueurnecaretEvent	1. 0
Class Extracted our approach - 3	
Attributes	Methods
visibleLines	addTopComponent(Component)
match	backspace()
multi	backspaceWord()
overwrite	delete()
painter	deleteWord()
rectangularSelectionMode	dispose()
physLastLine	getFocusCycleRoot()
dndInProgress	getFocusTraversalKeysEnabled()
horizontalOffset	goToNextWord(boolean)
quickCopy	getStructureMatch()
dndEnabled	isMultipleSelectionEnabled()
popup	isOverwriteEnabled()
selection	getPainter()
structureMatchers	getLastPhysicalLine()
view	is Rectangular Selection Enabled ()
verticalBox	removeTopComponent(Component)
popupEnabled	select(int, int)
	isDragInProgress()
	setDragInProgress(boolean)
	setFirstPhysicalLine(int)
	getHorizontalOffset()
	setHorizontalOffset(int)
	isQuickCopyEnabled()
	setQuickCopyEnabled(boolean)
	isDragEnabled()
	setDragEnabled(boolean)
	getElectricScroll()
	setElectricScroll(int)
	getRightClickPopup()
	setRightClickPopup(JPopupMenu)
	isRightClickPopupEnabled()
	setRightClickPopupEnabled(boolean)
	getSelectionCount()
	doWordCount(View, String)
	getSelectedText()
	setSelectedText(String)
	addStructureMatcher(StructureMatcher)
	removeStructureMatcher(StructureMatcher)
	addLeftOfScrollBar(Component)

removeLeftOfScrollBar(Component)
toggleOverwriteEnabled()
showGoToLineDialog()
smartEnd(boolean)
smartHome(boolean)
centerCaret()
getVisibleLines()