

JFace - Context Menu – One Trace

Use Concept Trace Slicing

Supporting Applications : [Console]

```
import org.eclipse.jface.text.IDocumentPartitioner;
import org.eclipse.jface.util.PropertyChangeEvent;
import org.eclipse.jface.action.IContributionManager;
import org.eclipse.swt.custom.StyledText;
import org.eclipse.jface.text.Document;
import org.eclipse.jface.action.Separator;
import org.eclipse.jface.text.IFindReplaceTarget;
import org.eclipse.jface.action.IMenuListener;
import org.eclipse.jface.viewers.ISelectionProvider;
import org.eclipse.jface.text.IPositionUpdater;
import org.eclipse.jface.text.IDocument;
import org.eclipse.jface.util.IPropertyChangeListener;
import org.eclipse.swt.widgets.Control;
import org.eclipse.jface.resource.ImageDescriptor;
import org.eclipse.jface.text.IDocumentPartitionerExtension;
import org.eclipse.swt.widgets.Menu;
import org.eclipse.jface.viewers.ISelectionChangedListener;
import org.eclipse.jface.resource.JFaceResources;
import org.eclipse.jface.text.ITextViewer;
import org.eclipse.jface.text.IDocumentListener;
import org.eclipse.jface.action.MenuManager;
import org.eclipse.jface.text.ITextListener;
import org.eclipse.jface.text.ITextOperationTarget;
import org.eclipse.jface.action.Action;

public class AppMenuListener
implements IMenuListener {

    public void menuAboutToShow(menuManager) {
        Separator separator = new Separator(String)||(); // REPEATED!
        IDocument idocument = itextOperationTarget.getDocument(); // REPEATED!
        AppAction appAction = new AppAction(iselectionProvider && itextOperationTarget);
        menuManager.add(separator && appAction); // REPEATED!
    }
}

public class AppAction
extends Action {

    public AppAction() {
        boolean app_boolean = appAction.isEnabled();
        appAction.setEnabled(app_boolean);
        appAction.firePropertyChange(String, Object, Object): () || (PropertyChangeEvent): ();
        appAction.setToolTipText(String);
        appAction.setHoverImageDescriptor(ImageDescriptor);
        appAction.setDisabledImageDescriptor(ImageDescriptor);
        appAction.setImageDescriptor(ImageDescriptor);
        /*          Cyclic Statements          */
        IFindReplaceTarget ifindReplaceTarget = itextOperationTarget.getFindReplaceTarget();
        boolean app_boolean1 = itextOperationTarget.canDoOperation(int);
        ITextOperationTarget itextOperationTarget = ITextViewer.getTextOperationTarget();
    }
}

public class AppDocumentListener
implements IDocumentListener {
}

public class AppPropertyChangeListener
implements IPropertyChangeListener {

    public AppPropertyChangeListener() {
        AppSelectionChangedListener appSelectionChangedListener = new AppSelectionChangedListener(appPropertyChangeListener);
        AppTextListener appTextListener = new AppTextListener(appPropertyChangeListener);
    }
}

public class AppDocumentPartitioner
implements IDocumentPartitioner {
}

public class AppDocumentPartitionerExtension
implements IDocumentPartitionerExtension {
}

public class AppSelectionChangedListener
implements ISelectionChangedListener {
}

public class AppTextListener
implements ITextListener {
}

public class AppPositionUpdater
implements IPositionUpdater {
}

public class SomeClass {

    public void someMethod() {
        AppDocumentPartitioner appDocumentPartitioner = new AppDocumentPartitioner();
        AppDocumentPartitionerExtension appDocumentPartitionerExtension = new AppDocumentPartitionerExtension();
        AppPropertyChangeListener appPropertyChangeListener = new AppPropertyChangeListener();
        AppMenuListener appMenuListener = new AppMenuListener(appPropertyChangeListener);
        AppDocumentListener appDocumentListener = new AppDocumentListener();
        AppPositionUpdater appPositionUpdater = new AppPositionUpdater();
        MenuManager menuManager = new MenuManager(String)|| (String, String)|| (); // REPEATED!
        menuManager.setRemoveAllWhenShown(boolean); // REPEATED!
        menuManager.addMenuListener(appMenuListener); // REPEATED!
        Document document = new Document(String)|| (); // REPEATED!
        document.addPositionCategory(String); // REPEATED!
        appDocumentPartitionerExtension.connect(document); // REPEATED!
        ITextViewer.setText(document); // REPEATED!
        JFaceResources.getFontRegistry(); // REPEATED!
        JFaceResources.getColorRegistry(); // REPEATED!
        document.addListener(appPropertyChangeListener); // REPEATED!
        document.removeListener(appPropertyChangeListener); // REPEATED!
        /*          Cyclic Statements          */
    }
}
```

```

idocument.addPositionUpdater(appPositionUpdater); // REPEATED!
Menu menu = menuManager.createContextMenu(styledText && control); // REPEATED!
appAction.setText(String); // REPEATED!
IContributionManager.appendToGroup(appAction); // REPEATED!
appAction.setActionDefinitionId(String); // REPEATED!
appAction.setDescription(String); // REPEATED!
appAction.setToolTipText(String); // REPEATED!
idocument.addDocumentListener(appDocumentListener); // REPEATED!
iselectionProvider.removeSelectionChangeListener(appSelectionChangeListener); // REPEATED!
AppAction appAction = new AppAction();
appAction.setImageDescriptor(ImageDescriptor); // REPEATED!
ISelectionProvider iselectionProvider = itextOperationTarget.getSelectionProvider(); // REPEATED!
iselectionProvider.addTextListener(appTextListener); // REPEATED!
menuManager.dispose(); // REPEATED!
IDocument idocument = iselectionProvider.getDocument(); // REPEATED!
StyledText styledText = iselectionProvider.getTextWidget(); // REPEATED!
Control control = iselectionProvider.getControl(); // REPEATED!
iselectionProvider.removeTextListener(appTextListener); // REPEATED!
iselectionProvider.addSelectionChangeListener(appSelectionChangeListener); // REPEATED!
int app_int = idocument.getLength(); // REPEATED!
}
}

```

Description of False Negatives:

The following instruction is missing (One false negatives) since it resides in org.eclipse.ui, not in JFace:
`control.setMenu(menu);`