

JFace – Content Assist – Three Traces Use Full Trace (No Slicing)

Supporting Applications : [JSP Editor, Example Java Editor, HTML Editor]

```
import org.eclipse.jface.text.contentassist.IContentAssistProcessor;
import org.eclipse.jface.text.IDocumentPartitioner;
import org.eclipse.jface.action.IAction;
import org.eclipse.jface.action.Separator;
import org.eclipse.jface.viewers.ISelectionProvider;
import org.eclipse.jface.action.IMenuManager;
import org.eclipse.jface.text.IDocument;
import org.eclipse.jface.text.source.IAnnotationHover;
import org.eclipse.jface.text.contentassist.ContentAssistant;
import org.eclipse.jface.text.IDocumentExtension3;
import org.eclipse.jface.text.source.SourceViewerConfiguration;
import org.eclipse.jface.viewers.ISelectionChangedListener;
import org.eclipse.swt.graphics.Color;
import org.eclipse.jface.text.ITextView;
import org.eclipse.jface.text.DocumentCommand;
import org.eclipse.jface.text.contentassist.ICompletionProposal;
import org.eclipse.jface.text.ITextHover;
import org.eclipse.jface.text.TextAttribute;
import org.eclipse.jface.text.IAutoEditStrategy;
import org.eclipse.jface.text.source.ISourceViewer;
import org.eclipse.jface.text.DefaultPositionUpdater;
import org.eclipse.jface.action.Action;

public class AppContentAssistProcessor
implements IContentAssistProcessor {

    public ICompletionProposal[] computeCompletionProposals(ITextView,int) {
        CompletionProposal completionProposal = new CompletionProposal(String,int,int,int)||
        (String,int,int,int,Image,String,IContextInformation,String);
    }

    public String getErrorMessage() {
    }

    public char[] getCompletionProposalAutoActivationCharacters() {
    }

    public char[] getContextInformationAutoActivationCharacters() {
    }
}

public class AppAutoEditStrategy
implements IAutoEditStrategy {

    public void customizeDocumentCommand(IDocument,DocumentCommand) {
    }
}

public class AppTextHover
implements ITextHover {
}

public class AppAction
extends Action {

    public AppAction() {
        appAction.setEnabled(boolean);
    }
}

public class AppSelectionChangedListener
implements ISelectionChangedListener {
}

public class AppAnnotationHover
implements IAnnotationHover {
}

public class SomeClass {

    public void someMethod() {
        IMenuManager imenuManager = IMenuManager.findMenuUsingPath(String); // MAY REPEAT!
        AppSelectionChangedListener appSelectionChangedListener = new AppSelectionChangedListener();
        ISelectionProvider appAnnotationHover = new AppAnnotationHover(appSelectionChangedListener); // MAY REPEAT!
        AppAnnotationHover appAnnotationHover = new AppAnnotationHover();
        SourceViewerConfiguration sourceViewerConfiguration = new SourceViewerConfiguration();
        DefaultPositionUpdater defaultPositionUpdater = new DefaultPositionUpdater(String);
        IAction.setActionDefinitionId(String); // REPEATED!
        Separator separator = new Separator(String)||(); // REPEATED!
        imenuManager.add(separator); // REPEATED!
        int app_int = IDocument.getLineOffset(int); // MAY REPEAT!
        TextAttribute textAttribute = new TextAttribute(Color)|| (Color,Color,int);
        AppAction appAction = new AppAction();
        IDocumentExtension3.setDocumentPartitioner (String,IDocumentPartitioner); // MAY REPEAT!
        IDocumentPartitioner.connect (IDocument); // MAY REPEAT!
        AppTextHover appTextHover = new AppTextHover ();
        String string = sourceViewerConfiguration.getConfiguredDocumentPartitioning (ISourceViewer);
        ContentAssistant contentAssistant = new ContentAssistant ();
        contentAssistant.setDocumentPartitioning (string);
        contentAssistant.enableAutoActivation (boolean);
        contentAssistant.setAutoActivationDelay (int);
        contentAssistant.setProposalPopupOrientation (int);
        contentAssistant.setContextInformationPopupOrientation (int);
        AppContentAssistProcessor appContentAssistProcessor = new AppContentAssistProcessor ();
        contentAssistant.setContentAssistProcessor (appContentAssistProcessor);
    }
}
}
```

Description of False Negatives:

We have the following three false negatives. The first two are because of not implementing the following class since the third sample application did not implement it:

```
public class AppSourceViewerConfiguration
extends SourceViewerConfiguration {

    public IContentAssistant getContentAssistant (ISourceViewer) {
    }
}
}
```

The third false negative is because of not calling the following instruction since it is in org.eclipse.ui, not in JFace:
TextEditor.setSourceViewerConfiguration (appSourceViewerConfiguration);