

GEF – Connection – Three Traces

Use Concept Trace Slicing

Supporting Applications : [Logic, Flow, Shapes]

```
import org.eclipse.gef.requests.CreateConnectionRequest;
import org.eclipse.gef.editpolicies.GraphicalNodeEditPolicy;
import org.eclipse.gef.editpolicies.ConnectionEditPolicy;
import org.eclipse.draw2d.IFigure;
import org.eclipse.gef.EditPartFactory;
import org.eclipse.gef.palette.PaletteRoot;
import org.eclipse.gef.NodeEditPart;
import org.eclipse.gef.RootEditPart;
import org.eclipse.gef.EditPartViewer;
import org.eclipse.gef.palette.ToolEntry;
import org.eclipse.gef.ui.parts.GraphicalViewerKeyHandler;
import org.eclipse.gef.editparts.AbstractConnectionEditPart;
import org.eclipse.gef.dnd.TemplateTransferDropTargetListener;
import org.eclipse.gef.ui.actions.ActionRegistry;
import java.util.EventObject;
import java.util.List;
import org.eclipse.gef.ContextMenuProvider;
import org.eclipse.ui.IEditorInput;
import org.eclipse.gef.editpolicies.ComponentEditPolicy;
import org.eclipse.ui.IEditorPart;
import org.eclipse.gef.dnd.TemplateTransferDragSourceListener;
import org.eclipse.swt.dnd.Transfer;
import org.eclipse.gef.editpolicies.RootComponentEditPolicy;
import org.eclipse.ui.IWorkbenchPart;
import org.eclipse.gef.DefaultEditDomain;
import org.eclipse.ui.part.WorkbenchPart;
import org.eclipse.gef.ui.parts.GraphicalEditor;
import org.eclipse.gef.commands.Command;
import org.eclipse.gef.EditPart;
import org.eclipse.gef.editpolicies.ConnectionEndpointEditPolicy;
import org.eclipse.gef.GraphicalViewer;
import org.eclipse.gef.commands.Command && appCommand && command2;

public class AppCommand
extends Command {

    public void execute() {
        appAbstractConnectionEditPart.refreshSourceConnections();
        appAbstractConnectionEditPart.refreshTargetConnections();
    }

    public boolean canExecute() {
    }
}

public class AppAbstractConnectionEditPart
implements NodeEditPart
extends AbstractConnectionEditPart {

    public void getTargetConnectionAnchor(editPart1 && appAbstractConnectionEditPart) {
        IFigure ifigure = appAbstractConnectionEditPart.getFigure(); // REPEATED!
    }

    public void refreshVisuals() {
        IFigure ifigure = appAbstractConnectionEditPart.getFigure(); // REPEATED!
        Object object = appAbstractConnectionEditPart.getModel(); // REPEATED!
    }

    public IFigure createFigure() {
    }

    public void createEditPolicies() {
        AppComponentEditPolicy appComponentEditPolicy = new AppComponentEditPolicy();
        RootComponentEditPolicy rootComponentEditPolicy = new RootComponentEditPolicy();
        AppGraphicalNodeEditPolicy appGraphicalNodeEditPolicy = new AppGraphicalNodeEditPolicy();
        ConnectionEndpointEditPolicy connectionEndpointEditPolicy = new ConnectionEndpointEditPolicy();
        AppConnectionEditPolicy appConnectionEditPolicy = new AppConnectionEditPolicy();
        appAbstractConnectionEditPart.installEditPolicy(appComponentEditPolicy && appGraphicalNodeEditPolicy && rootComponentEditPolicy &&
        appConnectionEditPolicy && connectionEndpointEditPolicy); // REPEATED!
    }

    public void getSourceConnectionAnchor(editPart1 && appAbstractConnectionEditPart) {
        IFigure ifigure = appAbstractConnectionEditPart.getFigure(); // REPEATED!
    }

    public void deactivate() {
        Object object = appAbstractConnectionEditPart.getModel(); // REPEATED!
    }

    public List getModelChildren() {
        Object object = appAbstractConnectionEditPart.getModel(); // REPEATED!
    }

    public void activate() {
        Object object = appAbstractConnectionEditPart.getModel(); // REPEATED!
    }

    public List getModelSourceConnections() {
        Object object = appAbstractConnectionEditPart.getModel(); // REPEATED!
    }

    public List getModelTargetConnections() {
        Object object = appAbstractConnectionEditPart.getModel(); // REPEATED!
    }
}

public class AppGraphicalNodeEditPolicy
extends GraphicalNodeEditPolicy {

    public Command getConnectionCompleteCommand(CreateConnectionRequest) {
        Command command = CreateConnectionRequest.getStartCommand(); // REPEATED!
        EditPart editPart = appGraphicalNodeEditPolicy.getHost(); // REPEATED!
        Object object = editPart.getModel(); // REPEATED!
    }

    public Command getConnectionCreateCommand(CreateConnectionRequest) {
        AppCommand appCommand = new AppCommand();
        CreateConnectionRequest.setStartCommand(Command && appCommand && command2); // REPEATED!
        EditPart editPart = appGraphicalNodeEditPolicy.getHost(); // REPEATED!
        Object object = editPart.getModel(); // REPEATED!
    }
}

public class AppditPartFactory
implements EditPartFactory {

    public EditPart createEditPart(appAbstractConnectionEditPart && editPart) {
```

```

AppAbstractConnectionEditPart appAbstractConnectionEditPart = new AppAbstractConnectionEditPart();
appAbstractConnectionEditPart.setModel(Object); // REPEATED!
}
}

public class AppGraphicalEditor
extends GraphicalEditor {

public void configureGraphicalViewer() {
AppditPartFactory appditPartFactory = new AppditPartFactory();
/* Cyclic Statements */
GraphicalViewerKeyHandler graphicalViewerKeyHandler = new GraphicalViewerKeyHandler(graphicalViewer);
graphicalViewer.setEditPartFactory(appditPartFactory); // MAY REPEAT!
graphicalViewer.setRootEditPart(RootEditPart); // MAY REPEAT!
ActionRegistry actionRegistry = GraphicalEditor.getActionRegistry(); // MAY REPEAT!
graphicalViewer.setKeyHandler(graphicalViewerKeyHandler); // MAY REPEAT!
graphicalViewer.setContextMenu(appContextMenuProvider); // MAY REPEAT!
GraphicalViewer graphicalViewer = GraphicalEditor.getGraphicalViewer(); // MAY REPEAT!
AppContextMenuProvider appContextMenuProvider = new AppContextMenuProvider(graphicalViewer && actionRegistry);
}

public void setInput(IEditorInput) {
}

public void initializeGraphicalViewer() {
GraphicalViewer graphicalViewer = GraphicalEditor.getGraphicalViewer(); // REPEATED!
graphicalViewer.setContents(EditPart):()|(Object):();
TemplateTransferDropTargetListener templateTransferDropTargetListener = new TemplateTransferDropTargetListener(graphicalViewer);
graphicalViewer.addDropTargetListener(templateTransferDropTargetListener); // MAY REPEAT!
}

public void commandStackChanged(EventObject) {
WorkbenchPart.firePropertyChange(int);
}
}

public class AppComponentEditPolicy
extends ComponentEditPolicy {
}

public class AppContextMenuProvider
extends ContextMenuProvider {
}

public class AppConnectionEditPolicy
extends ConnectionEditPolicy {
}

public class SomeClass {

public void someMethod() {
TemplateTransferDragSourceListener templateTransferDragSourceListener = new TemplateTransferDragSourceListener(EditPartViewer)|(EditPartViewer,Transfer);
EditPartViewer.addDragSourceListener(templateTransferDragSourceListener);
DefaultEditDomain defaultEditDomain = new DefaultEditDomain(IEditorPart);
GraphicalEditor.setEditDomain(defaultEditDomain);
PaletteRoot paletteRoot = new PaletteRoot();
paletteRoot.setDefaultEntry(ToolEntry);
}
}
}

```