

```

package es.unex.sextante.openjump.extensions;

import java.io.File;
import javax.swing.ImageIcon;
import javax.swing.JFrame;
import org.apache.log4j.Logger;
import com.vividsolutions.jump.workbench.plugin.PlugIn;
import com.vividsolutions.jump.workbench.plugin.PlugInContext;
import es.unex.sextante.core.Sextante;
import es.unex.sextante.gui.core.SextanteGUI;
import es.unex.sextante.gui.toolbox.ToolboxPanel;
import es.unex.sextante.openjump.core.OpenJUMPOutputFactory;
import es.unex.sextante.openjump.gui.OpenJUMPGUIFactory;
import es.unex.sextante.openjump.gui.OpenJUMPInputFactory;
import es.unex.sextante.openjump.gui.OpenJUMPPostProcessTaskFactory;
import es.unex.sextante.openjump.init.OJSextanteApiInitialiser;
import es.unex.sextante.openjump.language.I18NPlug;

public class SextanteToolboxPlugin implements PlugIn {

    public boolean execute(final PlugInContext context) throws Exception {
        SextanteGUI.getGUIFactory().showToolBoxDialog();
        return true;
    }

    protected static ToolboxPanel m_Toolbox;

    public String getName() { // Giuseppe Aruta - PlugIn Internationalized
        // 2013_05_25//
        return I18NPlug.getI18N("es.unex.sextante.kosmo.extensions.SextanteToolboxPlugin.Sextante-toolbox");
    }
}

```

```

public void initialize(final PlugInContext context) throws Exception {

    System.out.println("starting Sextante initialization >>");

    String jarspath = getJarsFolder();
    try {

        // [Giuseppe Aruta 6/12/2016] - Begin of First modification

        // --- comment out lines
        // Sextante.initialize(jarspath);
        // Sextante.initialize();
        // SextanteGUI.setSextantePath(getHelpPath());
        // SextanteGUI.initialize();
        // --- end of comment out lines

        // ---- New lines-----
        Sextante.initialize(jarspath);
        SextanteGUI.setSextantePath(jarspath);
        SextanteGUI.initialize(jarspath);
        // ---- End of new lines-----

        // [Giuseppe Aruta 6/12/2016] - End of first modification

        SextanteGUI.setGUIFactory(new OpenJUMPGUIFactory());
        JFrame frame = context.getWorkbenchFrame();
        SextanteGUI.setMainFrame(frame);

        SextanteGUI.setInputFactory(new OpenJUMPInputFactory(context
            .getWorkbenchContext()));
        SextanteGUI.setOutputFactory(new OpenJUMPOutputFactory(context
            .getWorkbenchContext()));
        SextanteGUI
            .setPostProcessTaskFactory(new OpenJUMPPostProcessTaskFactory());
    }
}

```

```

OJSextanteApiInitialiser.isInitialized = true;

context.getFeatureInstaller().addMainMenuPlugin(this,
    new String[] { "Sextante" }, getName(), false, getIcon(),
    null);

} catch (Exception e) { // [Stefan] this is most likely thrown while Debugging
    // with the eclipse IDE.
    System.out.println("Sextante not initialized!");
    System.out
        .println("Check for problems with Sextante initialization, path for libs and resources: "
            + jarspath);
    System.out.println("Check if image 'terminal.png' exist");
    System.out.println("Check also for Sextante help classes path: "
        + getHelpPath());
    System.out.println("=> Will do 2nd try with OJ-IDE-Dev settings: ");

    // [Stefan] == do a second trial ==

    String idePathSextante = System.getProperty("user.dir")
        + "/lib/plus/sextante";

    // [Giuseppe Aruta 6/12/2016] - Second modification

    // --- comment out lines
    // String idePathSHelp = System.getProperty("user.dir")
    // + "/lib/plus/sextante_help";
    // --- end of comment out lines

    // ---- new lines-----
    String idePathSHelp = System.getProperty("user.dir")
        + "/lib/plus/sextante/help";
    // --- end of new lines-----

```

```
// [Giuseppe Aruta 6/12/2016] - End of Second modification
```

```
SextanteGUI.setSextantePath(idePathSHelp);  
System.out.println("=> looking for algorithms and image in: "  
    + idePathSextante);  
try {
```

```
// [Giuseppe Aruta 6/12/2016] - Third modification
```

```
// --- comment out lines  
// Sextante.initialize(idePathSextante);  
// Sextante.initialize();  
// SextanteGUI.setSextantePath(idePathSHelp);  
// --- end of comment out lines
```

```
// --- new lines-----  
Sextante.initialize(idePathSextante);  
SextanteGUI.setSextantePath(idePathSextante);  
SextanteGUI.initialize(idePathSextante);  
// --- end of new lines-----
```

```
// [Giuseppe Aruta 6/12/2016] - End of third modification
```

```
SextanteGUI.setGUIFactory(new OpenJUMPGUIFactory());  
SextanteGUI.setMainFrame(context.getWorkbenchFrame());  
SextanteGUI.setInputFactory(new OpenJUMPInputFactory(context  
    .getWorkbenchContext()));  
SextanteGUI.setOutputFactory(new OpenJUMPOutputFactory(context  
    .getWorkbenchContext()));  
SextanteGUI  
    .setPostProcessTaskFactory(new OpenJUMPPostProcessTaskFactory());
```

```
OJSextanteApiInitialiser.isInitialized = true;
```

```

System.out
.println("Success initializing Sextante at 2nd trial!");

context.getFeatureInstaller().addMainMenuPlugin(this,
    new String[] { "Sextante" }, getName(), false,
    getIcon(), null);
} catch (Exception e1) { // this is most likely thrown while
    // Debugging with the eclipse IDE.

System.out
.println("No success with Sextante initialization - printing error log:");

    e1.printStackTrace();
    }
}
}

```

```

private String getJarsFolder() {

```

```

// [Giuseppe Aruta 6/12/2016] - fourth modification

```

```

// --- comment out lines

```

```

// final String sPath = System.getProperty("user.dir")

```

```

// + "/lib/ext/sextante";

```

```

// --- end of comment out lines

```

```

// --- new lines-----

```

```

final String sPath = System.getProperty("user.dir")

```

```

    .concat(File.separator).concat("lib").concat(File.separator)

```

```

    .concat("ext").concat(File.separator).concat("sextante");

```

```

// --- end of new lines-----

```

```

// [Giuseppe Aruta 6/12/2016] - End of third modification

```

```
        return sPath;
    }

    private static final Logger LOGGER = Logger
        .getLogger(SextanteToolboxPlugin.class);

    private String getHelpPath() {
        String str = System.getProperty("user.dir") + "/lib/ext/sextante_help";

        System.out.println("Sextante help path folder: " + str);
        return str;
    }

    // [Giuseppe Aruta 6/12/2016] this method is not used
    private String getSextantePath() {
        String str = System.getProperty("user.dir") + File.separator
            + "sextante";
        return str;
    }

    public ImageIcon getIcon() {

        return new ImageIcon(SextanteGUI.class.getClassLoader().getResource(
            "images/module2.png"));

    }
}
```