XML SOURCE EDITOR ENHANCEMENT SPEC

Author: Qiangsheng Wang

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1. Overview

1.1 Requirement and features

By leverage WTP StructruedTextEditor, BIRT provides an advance XML source editor to help user editing the design file at source level.

The features include:

- Source highlighting
- Formatting
- Outline of source
- Context menu actions

1.2 Packaging issues

1.2.1 org.eclipse.birt.report.designer.ui.editor.xml

The advanced XML editor will provide by a separate plug-in. The simple text editor, which provides with BIRT 2.1.x, is still exiting as the default xml source editor. Only ALL-IN-ONE version of BIRT includes this plug-in as advanced XML source editing feature.

1.2.2 RCP packaging

The RCP version of BIRT will not include the advanced XML source editor plug-in.

2. XML source Editor enhancement

2.1 Integrate with WTP's StructruedTextEditor

Leverage by WTP's StructuredEditor, user get a full functional editor to edit the report designer file. All the features are build-in features of WTP StructuredTextEditor. We list some here for demonstration. We really don't contribute any more fetures.

Features include:

Code highlighting.

Formatting by action.

Others.

2.1.1 User case 1: highlighting of design file.

Figure 2.1.1.1 Highlighting

2.1.2 User case 2: Formatting

Figure 2.1.2.1 Bad formed source

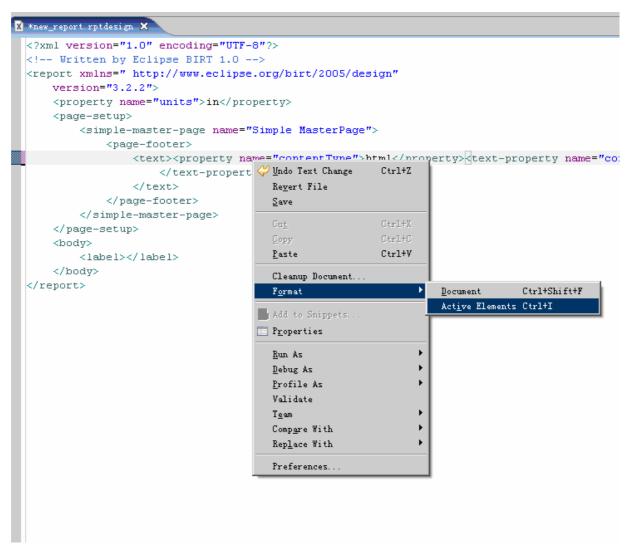


Figure 2.1.2.2 Select format action

```
🗶 *new_report.rptdesign 🗶 🕻
<?xml version="1.0" encoding="UTF-8"?>
<!-- Written by Eclipse BIRT 1.0 -->
<report xmlns=" http://www.eclipse.org/birt/2005/design"</pre>
    version="3.2.2">
    cproperty name="units">in</property>
    <page-setup>
        <simple-master-page name="Simple MasterPage">
            <page-footer>
                 <text>
                     cproperty name="contentType">html</property>
                     <text-property name="content">
                         <![CDATA[<value-of>new Date()</value-of>]]>
                     </text-property>
                 </text>
             </page-footer>
        </simple-master-page>
    </page-setup>
    <body>
        <label></label>
    </body>
</report>
```

Figure 2.1.2.3 Formatted source

3. Outline view enhancement

3.1 Full feature of XML source outline view.

We plan to leverage the WTP's code to support outline view of XML source. The outline view provides the features as:

- 1. Switch between outline of source and outline of report structure.
- 2. Select synchronization between outline and editor.
- 3. Insert, Edit, Delete, undo, redo and others actions

3.1.1 Use case 1: switch between report design outline view and JavaScript outline view.

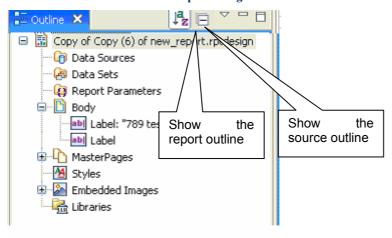


Figure 3.1.1.1 Show the outline view of report design by default.

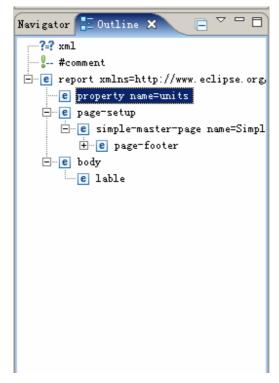


Figure 3.1.1.2 Switch to outline of source file by clicking on toolbar.

3.1.2 Use case 2: Selection synchronization

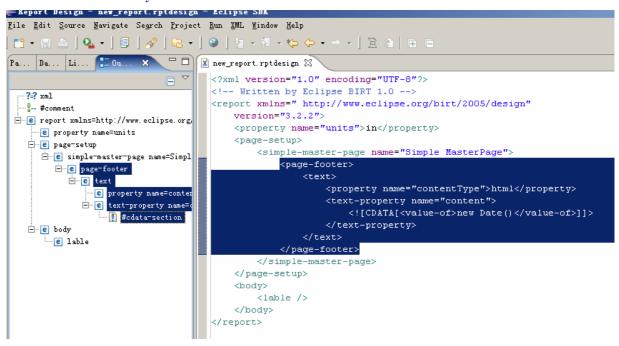
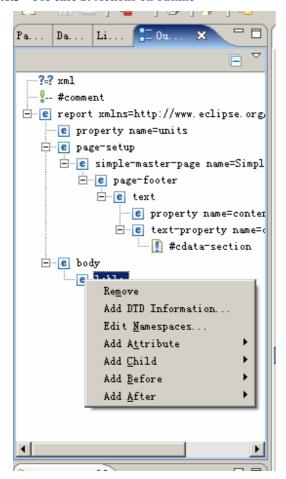


Figure 3.1.2.1 Synchronize the selection between outline view and JavaScript editor

3.1.3 Use case 2: Actions on outline



4. Appendix

4.1 Icon list

- TBD: The action icon of switch to report design outline
- TBD: The action icon of switch to XML source outline