Politecnico di Milano, A.A. 2016/2017

Software Engineering 2: Code Inspection

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Contents

1 Description of the code

1.1 Assigned class

The assigned class is the **InjectNodeTrailCsvTransform** class which is located in the `org.apache.ofbiz.content.webapp.ftl` package of the Apache OFBiz project. In particular, it's a class of the Apache Freemarker Java library which allows to generate text output (HTML web pages, e-mails, configuration files, source code, etc.) based on templates and changing data.

1.2 Functional role of the class

The class implements the **TemplateTransformModel** public interface which contains the `getWriter` method. However, it provides also the following deprecated methods:

- `getArg`

- `getWrappedObject`

Thanks to the `getWriter` method it is possible to transform an URL, which contains markers, into another one replacing the markers with provided arguments.

Unfortunately, this class it's not documented and the lack of comments make the guessing of its role harder.

2 Results of inspection

2.1 Notation

- A specific line of code will be referred as follows: L.1234.

- An interval of lines of code will be referred as follows: L.1234-5678.

2.2 Issues

2.2.1 Naming Conventions

1. The name of the class is not meaningful - L. 45.

2. The name of the variable `module` is not meaningful. It should be named `name` - L. 47.

2.2.2 Indentation

2.2.3 Braces

1. `if` statement without curly braces. - L. 107.

2. `if` statement without curly braces. - L. 114.

3. `if` statement without curly braces. - L. 116.

4. `if` statement without curly braces. - L. 118.

5. `if` statement without curly braces. - L. 122.

6. `if` statement without curly braces. - L. 127.

7. `if` statement without curly braces. - L. 134.

2.2.4 File Organization

1. Blank line not consistent - L. 48.

2. Lines length exceed 80 characters. - L. 81-83.

3. Missing blank line. - L. 83-84.

4. Blank line not consistent. - L. 86.

5. Blank line not consistent. - L. 104.

6. Line length exceed 80 characters. - L. 105.

7. Line length exceed 80 characters. - L. 107.

8. Blank line not consistent. - L. 111.

9. Lines length exceed 80 characters. - L. 113-118.

10. Line length exceed 120 characters. - L. 121.

11. Line length exceed 120 characters. - L. 126.

12. Line length exceed 80 characters. - L. 132.

13. Line length exceed 80 characters. - L. 134.

14. Blank line not consistent. - L. 146.

15. Line length exceed 80 characters. - L. 154.

16. Line length exceed 80 characters. - L. 156.

2.2.5 Wrapping Lines

2.2.6 Comments

Missing comments for all the methods.

2.2.7 Java Source Files

1. Javadoc is incomplete for the method `getWrappedObject`. - L. 57.

2. Javadoc is incomplete for the method `getArg`. - L. 65.

3. Javadoc is incomplete for the method `getArg`. - L. 73.

4. Javadoc is incomplete for the method `getWriter`. - L. 78.

2.2.8 Package and Import Statements

2.2.9 Class and Interface Declarations

2.2.10 Initialization and Declarations

1. Variable `redo` declared in the wrong scope. L. 110.

2. Variable `subContentId` declared in the wrong scope. L. 113.

3. Variable `contentId` declared in the wrong scope. L. 115.

4. Variable `contentAssocTypeId` declared in the wrong scope. L. 117.

5. Variable `lastComma` declared in the wrong scope. L. 139.

6. Variable `lastPassedContentId` declared in the wrong scope. L. 140.

7. Variable `nd` declared in the wrong scope. L. 149.

8. Variable `firstTrailContentId` declared in the wrong scope. L. 150.

2.2.11 Method Calls

2.2.12 Arrays

2.2.13 Object Comparison

2.2.14 Output Format

2.2.15 Computation, Comparisons and Assignments

2.2.16 Exceptions

2.2.17 Flow of Control

2.2.18 Files

3   Appendix

3.1   Used tools

Tools used to create this document:

- **MikTex**
  Distribution of the typesetting system LaTeX.
  http://miktex.org/

- **GitHub desktop**
  Desktop application of the web-based Git repository hosting service.
  Used to collaborate in the team and to have a track of the changes.
  https://desktop.github.com/

3.2   Hours of work

This is the time spent redacting the code inspection document

- Lorenzo Binosi - 3 hours