

Code Inspection

Michele Madaschi

Lidia Moioli

Luca Martinazzi

January 5, 2016

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Classes to be inspected

1.1 Assigned classes / methods

(abstract) class: *public abstract class WebCommonNode <T extends WebBundleDescriptorImpl > extends AbstractBundleNode <T >*,
from: *package org.glassfish.web.deployment.node*

The specific methods to be analyzed are:

1. *public Node writeDescriptor(Node parent, T webBundleDesc)*
2. *public void addDescriptor(Object newDescriptor)*
3. *public boolean endElement(XMLElement element)*

1.2 Purpose of the assigned class

The general purpose of this class is to manipulate the data object representing the xml tree of a web application. Said data is contained within the aggregated class *WebBundleDescriptorImpl*

Issues and problems found

2.1 Issues, sorted by numeric index

Please refer to the *Code inspection checklist*, included in the assignment document

- 8 :There are some indentations that doesn't follow the convention of 4 spaces (lines: 140, 278, 284, 286, 295, 342, 352, 442)
- 14 :There are some lines that contains more than 120 characters, that is the upper bound suggested (Lines: 249, 408, 411, 414, 417)
- 15 :Some break lines doesn't follow the convention (Lines 173, 200, 210, 217 and 426 break lines with a '('; line 319 follow the java convention, that is a littble bit different from the convention described in the assignement 3 document;)
- 23 : Raised exceptions are not indicated, neither in the method signature, nor in the javadoc.
- 27 : The writeDescriptor methon is very long, and contains a lot of blocks with similar code; Group of similar blocks:
 - a : from 337 to 343, from 346 to 354, from 366 to 373 and from 383 to 390;
 - b : from 290 to 297 and from 299 to 305;
 - c : from 275 to 278, from 282 to 287 and from 330 to 334;
- 31 : Some attributes used but not initialize neither in the method nor in the constructor(descriptor in addDescription and endElement)
- 33 : Some objects are not created at the beginning of their block (filters, filterMappingNode, appListeners, servlets, mimeTypeNode, welcomeFiles, errorPages, jspConf, securityCOnstraints, lci, roles, lemlistDesc, those are in the writeDescriptor method)
- 43 : Several missing spaces in the logging messages (for example: line 143, 148, 173)

Other problems

There is a repeated improper use of *for* loops with iterators, in the form:

```
for (Iterator patterns = aServlet.getUrlPatternsSet  
    ().iterator(); patterns.hasNext();)
```

However, it might just be following the project's internal coding style