## Code Inspection

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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)
- 9: Tabs are used to indent from line 356 to line 362
- 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 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, mimeNode, welcomeFiles, errorPages, jspConf, securityCOnstraints, lci, roles, lemlistDesc, those are in the writeDescriptor method)

: 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();)
```

From line 142 to line 182, the third level statement " if" doesn't follow the right standard indentation

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