



Politecnico di Milano

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Software Engineering 2 Project

myTaxiService

Code Inspection Document

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1 Classes/methods assigned to the group

Here the method assigned to the group is stated:

- **readNode(org . w3c . dom . Node node)**

Location:

appserver/common/stats77/src/main/java/com/sun/enterprise/admin/monitor/stats/lb/InstanceStats.java

2 Functional Role

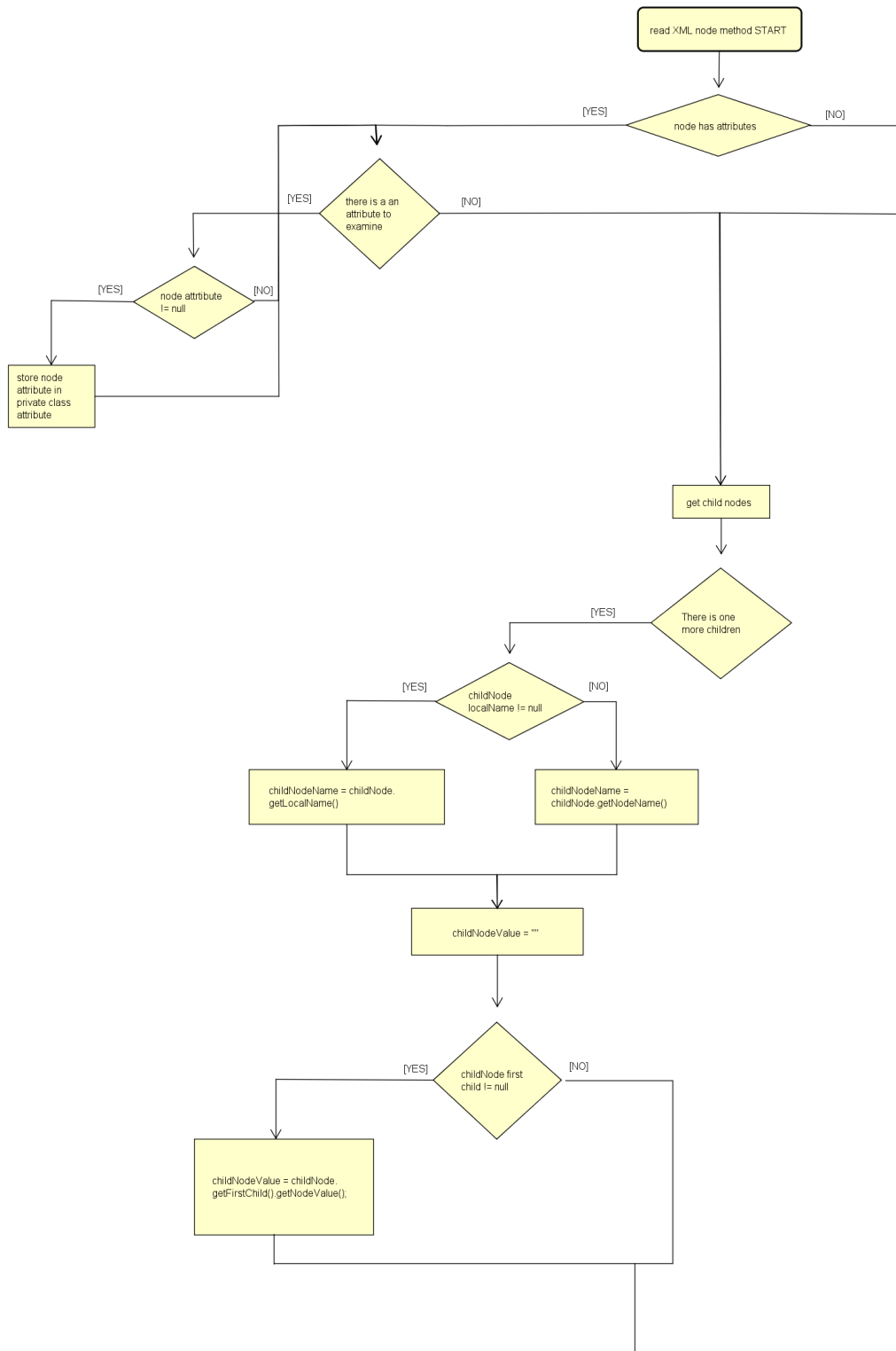
The major functions of the method are there briefly described:

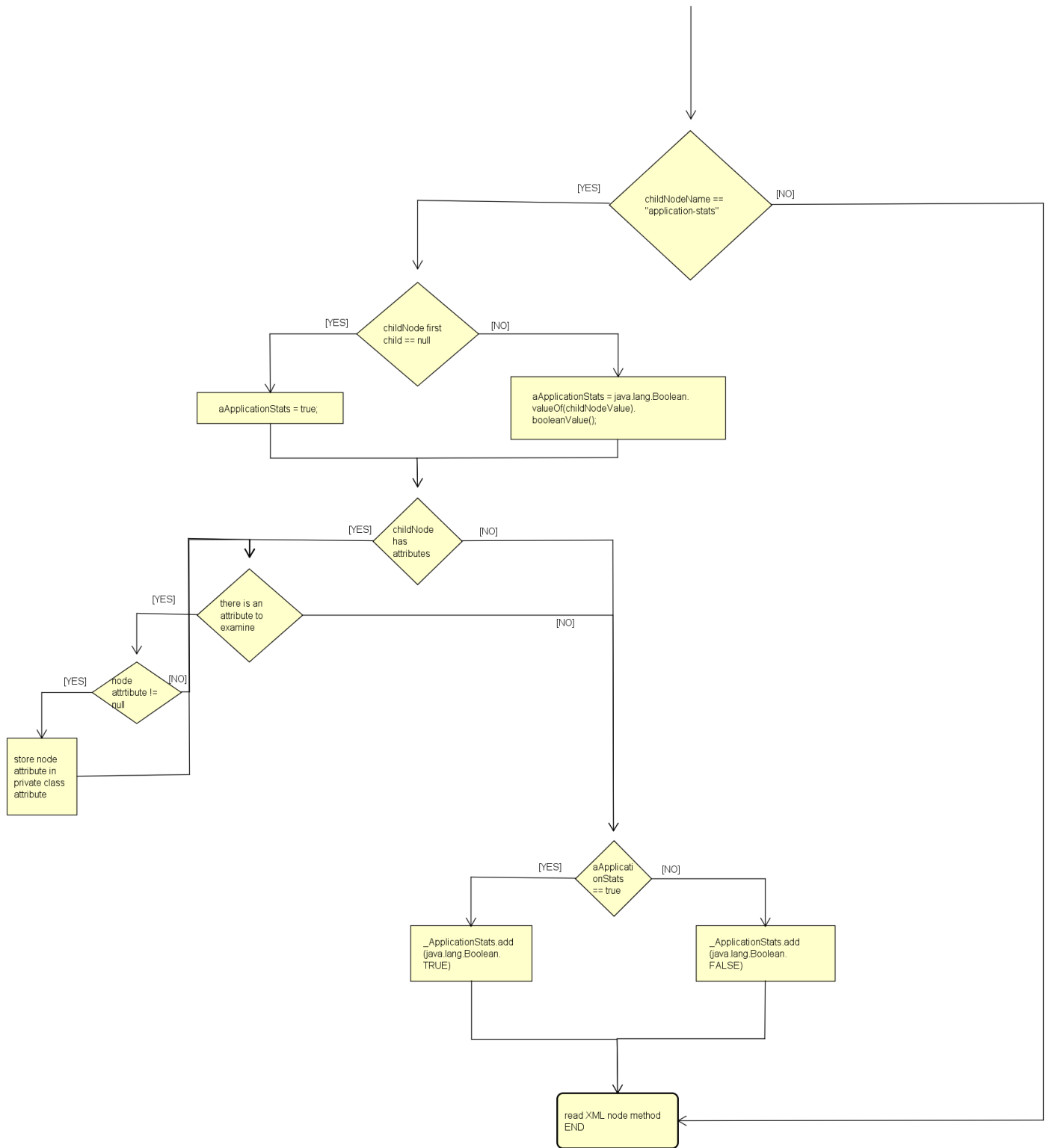
- read the XML node passed as a parameter
- if node has attributes, store some node's attributes in private class variables if the attributes are not null
- get the nodes which are child of the node passed as a parameter
- For every node which is child of the node passed as a parameter:
 - If a local name is assigned for the node, store the local name in "childNodesName" variable, else store the node name in such variable
 - If the first child node of the node isn't null, store its value in the "childNodesValue" variable
 - If the name stored in "childNodesName" variable is equal to "application-stats":

- If the first child node of the node is null, set the “aApplicationStats” to “true” boolean value, else set “aApplicationStats” to the boolean value given by `java.lang.Boolean.valueOf(childNodeValue).booleanValue()` call
- If node has attributes, get node’s attributes and store some of them in private class variables if the attributes are not null
- If “aApplicationStats” variable is set to true, add “true” boolean variable to the private class List attribute “_ApplicationStats”, if “aApplicationStats” variable is set to false, add “false” boolean variable to the private class List attribute “_ApplicationStats”

The following flow diagram better shows method functional role:

2.1 Method general flow diagram





3 List of issues

3.1 *Naming Convention*

- Class variables at which the method refers (and all class variable in general) starts with an underscore, but the first letter after the underscore is not capitalized

3.2 *Indentation*

- Four spaces are not used to indent, instead tabs are used

3.3 *Braces*

- At line 411 there's an if with only one statement (one for the then branch and one for the else branch), but it is not surrounded by curly braces

3.4 *File organization*

- Line 404 exceed 120 characters

3.5 *Java Source Files*

- The Javadoc doesn't provide any explanation on what the method does and on the meaning of the elements which the method uses and/or updates, the feeling is that the Javadoc is auto-generated, without a good human participation and revision

3.6 *Initialization and Declarations*

- At line 382 a variable is declared but it is not initialized at the same line, is instead initialized at the very next line: 383
- At line 400 declaration of “children” variable doesn’t appear at the beginning of the block of his scope
- At line 401 declaration of “lastElementType” variable doesn’t appear at the beginning of any block

4 Other problems

No other problems has been founded

5 Appendix

For the creation of this document I spent 30 hours.