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Software Engineering 2: “myTaxiService”
Code Inspection

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Contents

1	Assigned Class	4
2	Functional Role of Class ConnectorDeployer	4
3	Found Issues	4
3.1	Naming Conventions	4
3.1.1	1	4
3.1.2	2	4
3.1.3	3	4
3.1.4	4	4
3.1.5	5	4
3.1.6	6	4
3.1.7	7	5
3.2	Indention	5
3.2.1	8	5
3.2.2	9	5
3.3	Braces	5
3.4	File Organization	5
3.5	Wrapping Lines	5
3.6	Comments	5
3.7	Java Source Files	5
3.7.1	20	5
3.7.2	21	5
3.8	Package and Import Statements	5
3.8.1	24	5
3.9	Class and Interface Declarations	6
3.10	Initialization and Declarations	6
3.11	Method Calls	6
3.12	Arrays	6
3.12.1	37	6
3.12.2	38	6
3.12.3	39	6
3.13	Object Comparison	6
3.13.1	40	6
3.14	Output Format	6
3.14.1	41	6
3.14.2	42	6
3.14.3	43	6
3.15	Computation, Comparisons and Assignments	6
3.15.1	44	6
3.15.2	45	7
3.15.3	46	7
3.15.4	47	7
3.15.5	48	7

3.15.6	49	7
3.15.7	50	7
3.15.8	51	7
3.16	Exceptions	7
3.16.1	52	7
3.16.2	53	7
3.17	Flow of Control	7
3.17.1	54 and 55	7
3.18	Files	8
3.18.1	57	8
3.18.2	58	8
3.18.3	59	8
3.18.4	60	8
4	Other Highlighted Problems	8
5	Appendix	8

1 Assigned Class

2 Functional Role of Class ConnectorDeployer

3 Found Issues

3.1 Naming Conventions

3.1.1 1

Class name is meaningful;

No interfaces are in the file;

Method names are meaningful, even if it is suggested to change "deleteRAConfig" in "deleteResourceAdapterConfig";

Class variables are meaningful.

Method variables

Constants names are meaningful but the "EAR" constant may be renamed in "ENTERPRISE_ARCHIVE" to improve readability;

3.1.2 2

Some one-character variables were found, but they were all "e" for exceptions. We considered acceptable to have exceptions in catch blocks named "e" since they are throwaway variables and they have a very limited scope length.

3.1.3 3

The file only contains one class and it respects the naming convention.

3.1.4 4

No interface is declared in the assigned file.

3.1.5 5

All the methods respect the naming convention.

3.1.6 6

The convention is respected, but the variable "clh" has a meaningless name, because an acronym is used, but as a 3 letter lowercase word, which can be confusing. It is suggested to rename the variable clHierarchy or classLoaderHierarchy to improve readability.

3.1.7 7

The constants respect the naming convention.

3.2 Indention

3.2.1 8

Indention is coherent, 4 or multiples of 4 spaces are used consinstently, with only line 518 as an exception.

3.2.2 9

line 518 uses tabs to indent.

```
“ //ignore ?”
```

3.3 Braces

3.4 File Organization

3.5 Wrapping Lines

3.6 Comments

3.7 Java Source Files

3.7.1 20

The file ConnectorDeployer.java contains only the ConnectorDeployer public class.

3.7.2 21

The ConnectorDeployer public class is the first and only class in the file.

3.8 Package and Import Statements

3.8.1 24

The package statement `package com.sun.enterprise.connectors.module;` is the first non-comment statement and is followed by the import statements.

3.9 Class and Interface Declarations

3.10 Initialization and Declarations

3.11 Method Calls

3.12 Arrays

3.12.1 37

No issues were found regarding array indexing. All arrays and lists are accessed either with an enhanced for or in a while loop with an iterator that starts from the first element and scans all the other elements until there are no more.

3.12.2 38

As explained in the previous point, no issues were found.

3.12.3 39

3.13 Object Comparison

3.13.1 40

No issues were found regarding object comparisons as '==' is never used.

3.14 Output Format

3.14.1 41

The only outputs of the methods that were assigned to us are the entries logged in the logger and they're all free of spelling and grammatical errors.

3.14.2 42

3.14.3 43

3.15 Computation, Comparisons and Assignments

3.15.1 44

No examples of brutish programming have been found.

3.15.2 45

3.15.3 46

3.15.4 47

3.15.5 48

3.15.6 49

3.15.7 50

3.15.8 51

3.16 Exceptions

3.16.1 52

3.16.2 53

Two issues have been found regarding appropriate actions taken in catch blocks because, in the following extracts from two of the methods assigned to us, no actions at all are taken:

- registerBeanValidator:

```
try {
    if (inputStream != null) {
        inputStream.close();
    }
} catch (Exception e) {
    // ignore ?
}
```

- getValidationMappingDescriptors:

```
try {
    reader.close();
} catch (Exception e) {
    //ignore ?
}
```

3.17 Flow of Control

3.17.1 54 and 55

There are no switch statements in the methods that were assigned to us.

3.18 Files

3.18.1 57

3.18.2 58

3.18.3 59

3.18.4 60

4 Other Highlighted Problems

5 Appendix

Appendix for Roberto Clapis

Work hours: 20

Software Used:

Task	Software
Edit \LaTeX Source	Vim
Edit Graphs Sources	Vim
Edit sources for Sequence Diagrams	Vim
Convert Sequence Diagrams to images	Quick SequenceDiagramEditor
Generate and Raster directed graphs	Dot
Generate and Raster undirected graphs	Fdp
General images mangling and cropping	ImageMagick & Shotwell
Convert \LaTeX source to PDF	\LaTeX MK
Spell Check	Aspell
\LaTeX Check	LaCheck

Appendix for Erica Stella

Work hours: 6 @ 14:00 16/12

Software Used:

Task	Software
Edit \LaTeX Source	TexStudio
Convert \LaTeX source to PDF	\LaTeX MK