Verslag Agile

Namen: Jeffrey van Oostenbrugge, Pearl Roman, Joram Ruitenschild en Graeham Blank

Klas: SE203

Vak: Agile

Versiebeheer

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Ver.** | **Status** | **Datum** | **Auteur(s)** | **Wijzigingen** |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |

Goedkeuring

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | **Uitvoering** | | **Controle** | | **Goedkeuring** | |
| **Ver.** | **Naam** | **Datum** | **Naam** | **Datum** | **Naam** | **Datum** |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |

Team-indeling

|  |  |  |
| --- | --- | --- |
| Team 1 | Rails 3 | Jeffrey van Oostenbrugge |
| ,, | ,, | Greaham Blank |
| Team 2 | Rails 5 | Pearl Roman |
| ,, | ,, | Joram Ruitenschild |

Quality assignments VAG – Assignment 1

Team: 1

Table with quality items and their score:

|  |  |  |
| --- | --- | --- |
| Nr | Quality item | good/average/bad |
| 1 |  |  |
| 2 |  |  |
| 3 |  |  |
| 4 |  |  |
| 5 |  |  |
| 6 |  |  |
| 7 |  |  |
| 8 |  |  |
| 9 |  |  |
| 10 |  |  |

Team: 2

Table with quality items and their score:

|  |  |  |
| --- | --- | --- |
| Nr | Quality item | good/average/bad |
| 1 |  |  |
| 2 |  |  |
| 3 |  |  |
| 4 |  |  |
| 5 |  |  |
| 6 |  |  |
| 7 |  |  |
| 8 |  |  |
| 9 |  |  |
| 10 |  |  |

Template quality assignments VAG – Assignment 2

Pre-assignment: make sure you can measure with the tools SourceMonitor and RefactorIT.

Team: 1

Rails3

Measurement results:

|  |  |  |
| --- | --- | --- |
| Metric | SourceMonitor | RefactorIT |
| Number of files (NOF) | 30 |  |
| Number of Classes (NOC) | 37 |  |
| Lines of code (LOC) | 5512 | 5507 |
| Comment lines (cLOC) | 917 | 917 |
| Number of executable lines of code (eLOC) |  | 1424 |

Comparison of results, explanantion of differences (if present):

<write here>

Team: 2

Measurement results:

|  |  |  |
| --- | --- | --- |
| Metric | SourceMonitor | RefactorIT |
| Number of files (NOF) | 150 |  |
| Number of Classes (NOC) | 166 |  |
| Lines of code (LOC) | 24.150 | 24758 |
| Comment lines (cLOC) | 45% **(%comments)** | 10957 |
| Number of executable lines of code (eLOC) | 7984 **( statements)** |  |

Comparison of results, explanantion of differences (if present):

<write here>

Template quality assignments VAG – Assignment 3

Team: 1

Rails3

|  |  |
| --- | --- |
| Lay-out comments | Rating |
| Physical line length > 80 characters | Might be useful |
| Function/class/struct/interface white space < 10.0% | Useful |
| Function comment content less than 10.0% | Not useful |
| File white space < 10.0% | Might be useful |
| File comment content < 10.0% | Useful |
| TAB character has been identified | Might be useful |
| Class/Struct comments are < 10.0% | Useful |
| Function/Class Blank Line content less < 10.0% | Useful |
| File Blank Line content < 10.0% | Might be useful |
| A line containing just a semicolon | Not useful |
| The closing brace is not on a standalone line | Not useful |

|  |  |
| --- | --- |
| Naming comments | Rating |
| Class name not proper cased | Not useful |
| Function name length > 32 characters | Not useful |
| A specified key string is missing in a file | Might be useful |

|  |  |
| --- | --- |
| Program code comments | Rating |
| Assignment "=" within "if" statement | Useful |
| Assignment "=" within "while" statement | Useful |
| Pre-decrement operator "--" identified | Useful |
| Pre-increment operator "++" identified | Useful |
| "switch" statement does not have a "default" | Not useful |
| "case" conditions do not equal "break" | Not useful |
| if, else, for or while not bound by scope | Might be useful |
| "?" ternary operator identified | Useful |
| Number of function return points > 1 | Not useful |
| Class specification contains public data | Useful |
| Class specification contains protected data | Not useful |
| Exception Handling "try"- "catch" has been identified | Useful |
| Keyword "continue" has been identified | Useful |
| Keyword "break" identified outside a "switch" structure | Useful |

|  |  |
| --- | --- |
| Program structure comments | Rating |
| Function eLOC > maximum 200 eLOC | Useful |
| Cyclomatic complexity > 10 | Not useful |
| Number of function parameters > 6 | Might be useful |
| Number of class/struct methods exceeds specified maximum 100 | Might be useful |
| Depth of the Inheritance Tree exceeds the maximum 4 | Useful |
| Number of derived classes exceeds the specified maximum 10 | Useful |
| Multiple inheritance has been identified | Useful |
| Function lLOC <= 0, non-operational function | Might be useful |
| Function appears to have null or blank parameters | Might be useful |

De eerste 2 zijn niet bruikbaar, omdat ze regels alleen zouden opvullen met 1 teken.

De volgende 2 betreffen het benamen van een class bijvoorbeeld. Het niet goed benoemen of een extreem lange naam meegeven zorgt voor enige onduidelijkheid, dus dat is niet bruikbaar.

Het hebben van minder dan 10% aan comments, is niet bruikbaar, omdat je anders voor andere programmeurs niet meegeeft hoe het in elkaar steekt.

Het switch statement heeft een default een een case betreft een break;, daarom zijn die ook niet bruikbaar.

Een return betreft 1 keer, vandaar niet dat het bruikbaar is.

Het laten zien van protected data is niet bruikbaar, want anders zou het niet protected(beschermd) zijn.

Cyclomatic complexity meer dan 10 is niet bruikbaar, anders wordt de methode te complex en niet begrijpbaar meer.

Team: 2

Fill in your answers below.

|  |  |
| --- | --- |
| Lay-out comments | Rating |
| Physical line length > 80 characters | ***might be usefull*** |
| Function/class/struct/interface white space < 10.0% | ***might be usefull*** |
| Function comment content less than 10.0% | ***very usefull*** |
| File white space < 10.0% | ***might be usefull*** |
| File comment content < 10.0% | ***very usefull*** |
| TAB character has been identified | ***very usefull*** |
| Class/Struct comments are < 10.0% | ***might be usefull*** |
| Function/Class Blank Line content less < 10.0% | ***might be usefull*** |
| File Blank Line content < 10.0% | ***might be usefull*** |
| A line containing just a semicolon | ***not usefull*** |
| The closing brace is not on a standalone line | ***might be usefull*** |

|  |  |
| --- | --- |
| Naming comments | Rating |
| Class name not proper cased | ***very usefull*** |
| Function name length > 32 characters | ***not usefull*** |
| A specified key string is missing in a file | ***not usefull*** |

|  |  |
| --- | --- |
| Program code comments | Rating |
| Assignment "=" within "if" statement | ***very usefull*** |
| Assignment "=" within "while" statement | ***very usefull*** |
| Pre-decrement operator "--" identified | ***might be usefull*** |
| Pre-increment operator "++" identified | ***might be usefull*** |
| "switch" statement does not have a "default" | ***not usefull*** |
| "case" conditions do not equal "break" | ***might be usefull*** |
| if, else, for or while not bound by scope | ***might be usefull*** |
| "?" ternary operator identified | ***might be usefull*** |
| Number of function return points > 1 | ***might be usefull*** |
| Class specification contains public data | ***very usefull*** |
| Class specification contains protected data | ***very usefull*** |
| Exception Handling "try"- "catch" has been identified | ***very usefull*** |
| Keyword "continue" has been identified | ***might be usefull*** |
| Keyword "break" identified outside a "switch" structure | ***might be usefull*** |

|  |  |
| --- | --- |
| Program structure comments | Rating |
| Function eLOC > maximum 200 eLOC | ***might be usefull*** |
| Cyclomatic complexity > 10 | ***might be usefull*** |
| Number of function parameters > 6 | ***might be usefull*** |
| Number of class/struct methods exceeds specified maximum 100 | ***might be usefull*** |
| Depth of the Inheritance Tree exceeds the maximum 4 | ***might be usefull*** |
| Number of derived classes exceeds the specified maximum 10 | ***might be usefull*** |
| Multiple inheritance has been identified | ***might be usefull*** |
| Function lLOC <= 0, non-operational function | ***might be usefull*** |
| Function appears to have null or blank parameters | ***might be usefull*** |

Explanantion why you rate some comments as “*not usefull*”:

Some of them are rate as “not usefull” because it depends on a specific situation. And also which technique is most efficient. Some of them need to declare in a way that they can reuse in different classes.

Template quality assignments VAG – Assignment 4

Team: 1

Measurement results:

Three biggest classes:

1. OverviewPanel

2. Central

3. Database

|  |  |  |  |
| --- | --- | --- | --- |
| Metric | Class 1 | Class 2 | Class 3 |
| Weighted methods per class (WMC) | 220 | 66 | 51 |
| Depth of inheritance tree (DIT) | 5 | 1 | 1 |
| Number of children of a class (NOC) | 0 | 0 | 0 |
| Coupling between object classes (CBO) |  |  |  |
| Response set for a class (RFC) | 126 | 96 | 19 |
| Lack of cohesion of methods (LcoM) | 0.897 | 0.935 | 0.959 |

Short interpretation of the results:

<write here>

Team: 2

Measurement results:

Three biggest classes:

1.

2.

3.

|  |  |  |  |
| --- | --- | --- | --- |
| Metric | Class 1 | Class 2 | Class 3 |
| Weighted methods per class (WMC) |  |  |  |
| Depth opf inheritance tree (DIT) |  |  |  |
| Number of children of a class (NOC) |  |  |  |
| Coupling between object classes (CBO) |  |  |  |
| Response set for a class (RFC) |  |  |  |
| Lack of cohesion of methods (LcoM) |  |  |  |

Short interpretation of the results:

<write here>

# Template quality assignments VAG – Assignment 5

Name 1: Jeffrey van Oostenbrugge

Name 2: Graeham Blank

Pre-assignment: make sure you can measure with the tools SourceMonitor and RefactorIT

Measurement results:

The largest class file: OverviewPanel.java

The five largest methods in this class file:

1. addShuttle()

2. paint()

3. paintTimer()

4. run()

5. amersfoortApeldoorn()

|  |  |  |
| --- | --- | --- |
| Method | CC SourceMonitor | CC RefactorIT |
| 1. addShuttle() | 92 | 82 |
| 2. paint() | 12 | 9 |
| 3. paintTimer() | 1 | 2 |
| 4. run() | 1 |  |
| 5. amersfoortApeldoorn() | 4 | 4 |

Your short interpretation of the results OF MINIMAL 3 sentences (in dutch).

# Template quality assignments VAG – Assignment 5

Name 1:

Name 2:

Pre-assignment: make sure you can measure with the tools SourceMonitor and RefactorIT

Measurement results:

The largest class file:

The five largest methods in this class file:

1.

2.

3.

4.

5.

|  |  |  |
| --- | --- | --- |
| Method | CC SourceMonitor | CC RefactorIT |
| 1. |  |  |
| 2. |  |  |
| 3. |  |  |
| 4. |  |  |
| 5. |  |  |

Your short interpretation of the results OF MINIMAL 3 sentences (in dutch).