

Assignment 2

Inspection of a Specification Document

CS4004 – Software Testing and Inspection

Start: Week 5

Due time: 06/03/2012 at 21.00

Submitted on: 05/03/2012

Group Size: 3

Julien Dhallenne (Erasmus) 11159049

Roberto Casadei (Erasmus) 11153555

(Eoin Murphy, 9021221, seems to have stopped following this course)

Checklist

- **Organization:** how the document is organized, including titles, sections, tables and information disposition (12 defects)
- **Consistency:** the information is reported in a consistent manner, both for representation and meaning (9 defects)
- **Right level of detail:** the information is detailed enough and is expressed at the right level of abstraction (3 defects)
- **Testability:** the accomplishment of a feature can be measured (1 defect)
- **Feasibility:** the feature can be realized (0 defects)
- **Ambiguity:** the language or the content is ambiguous (4 defects)
- **Clarity:** the information is expressed through a clear language and can be easily understood (6 defects)
- **Written Form:** the information is expressed in a bad or inappropriate way (2 defects)
- **Completeness:** the information supplied is not complete or some information is missing (4 defects)
- **Enhancements:** proposals, hints for improvements, special issues (2 items)
- **Error:** mistakes, erroneous definitions, typos, and all the things which cannot be easily accustomed in the other categories (1 defects)

Defects

Defect Logging Form

Issue number: 1

Document: Moodle SRS

Section: 1.5, 10

Page: 4

Major/minor: Major

Number of times: 1

Checklist item: Organization, Completeness

Description: The Document Overview references to the Section 10 (relative to hardware requirements), but that section is missing in the Moodle SRS document.

Defect Logging Form

Issue number: 2

Document: Moodle SRS

Section: 2.2

Page: 7, 8, 12, 14, 18, 19

Major/minor: Major

Number of times: 6

Checklist item: Organization, Completeness, Consistency

Description: Missing information about Criticality/ies of a task. Missing information about criticality is different to "No criticality" (which is used for example in task 2.2).

Defect Logging Form

Issue number: 3

Document: Moodle SRS

Section: 4.2.1

Page: 27

Major/minor: Major

Number of times: 5

Checklist item: Consistency, Ambiguity

Description: The word "user" is misused as it may imply that "students" (which are included in the notion of "users", according to the Glossary) are capable of managing courses, course categories, and assignments of teachers to courses.

Defect Logging Form

Issue number: 4

Document: Moodle SRS

Section: 4.4, 6.4, 5.4

Page: 28,30,32

Major/minor: Minor

Number of times: 3

Checklist item: Organization, Clarity

Description: The acronym WYSIWYG is not included in any acronym list or glossary. As the document is also addressed to nontechnical people, this term may not be known.

Defect Logging Form

Issue number: 5

Document: Moodle SRS

Section: 2.2 Page: 7, 10, 13, 18

Major/minor: Major

Number of times: 4

Checklist item: Ambiguity, Testability

Description: The Frequency information ("As often as new information needs to be added", "Anytime a new course needs to be added", "At registration, and whenever a user wishes to update his personal information", "Whenever an assignment is given") gives no clear (quantitative or qualitative) idea about the actual frequency of the task. Instead of "when" a task happens, this information should express "how many times" a task happens.

Defect Logging Form

Issue number: 6

Document: Moodle SRS

Section: 2.2

Page: 10

Major/minor: Minor

Number of times: 1

Checklist item: Organization, Completeness

Description: The pre-condition for the task ("A new course is required") is obvious and doesn't add any useful information. The information about who is the user that is able to add a course is missing.

Defect Logging Form

Issue number: 7

Document: Moodle SRS

Section: 2.2

Page: 13

Major/minor: Minor

Number of times: 1

Checklist item: Ambiguity, Clarity

Description: From the task's title ("Enter a user profile") it seems that the task is more concerned with visiting other people's profile, instead of accessing and modifying the user's own profile.

Defect Logging Form

Issue number: 8

Document: Moodle SRS

Section: 2.2

Page: 18

Major/minor: Major

Number of times: 1

Checklist item: Right level of detail, Clarity

Description: The sub-task section (for the task "Submit a document for assessment") doesn't include any sub-task about the selection of the assignment for which the document to submit is for.

Defect Logging Form

Issue number: 9

Document: Moodle SRS

Section: 2.2

Page: 13

Major/minor: Minor

Number of times: 1

Checklist item: Organization, Consistency

Description: The sub-task 1 and 1a are actually examples of solution of sub-task 2.

Defect Logging Form

Issue number: 10

Document: Moodle SRS

Section: 2.2

Page: 12

Major/minor: Minor

Number of times: 1

Checklist item: Organization, Consistency

Description: The sub-tasks 1, 1a, 1b are more properly examples of solution of a more generic sub-task "Select a user".

Defect Logging Form

Issue number: 11

Document: Moodle SRS

Section: 2.2

Page: 13

Major/minor: Minor

Number of times: 1

Checklist item: Consistency, Clarity, Right level of detail, Ambiguity

Description: The sub-task "Select name of student" is too specifically written and ambiguous as the task is about entering the logged user's own profile, not any user's profile and not just a student's profile.

Defect Logging Form

Issue number: 12

Document: Moodle SRS

Section: 2.2

Page: 17

Major/minor: Minor

Number of times: 1

Checklist item: Organization, Consistency

Description: The sub-task variant 3a is actually a variant of sub-task 4. Moreover, for it to be performed, a sub-task concerned with the selection of a forum's thread should be considered.

Defect Logging Form

Issue number: 13

Document: Moodle SRS

Section: 7

Page: 1,32,33

Major/minor: Minor

Number of times: 1

Checklist item: Organization, Consistency

Description: There are two sections with the same number (7). They are “Data Requirements” and “Performance Requirements”, in the order. Changing the numbering of the “Performance Requirements” section to 8 will cause to change the numbering of its following sections. This numbering error is reflected in the Table of Contents.

Defect Logging Form

Issue number: 14

Document: Moodle SRS

Section: 8

Page: 33

Major/minor: Major

Number of times: 1

Checklist item: Organization, Completeness

Description: The “Operating Requirements” section is missing the security information regarding the possible payment for the registration to courses.

Defect Logging Form

Issue number: 15

Document: Moodle SRS

Section: 2.2

Page: 17

Major/minor: Minor

Number of times: 1

Checklist item: Organization, Consistency

Description: The order of sub-tasks 2 and 3 is inverted. A forum needs to be selected first, next a topic.

Defect Logging Form

Issue number: 16

Document: Moodle SRS

Section:

Page:

Major/minor: Major

Number of times:

Checklist item: Enhancements

Description: As the application is web-based, security aspects should be more emphasized and more information about security should be provided. Security requirements should be better and extensively stated, as well as identifying a minimum yardstick (such as defense against OWASP Top 10 risks: Sql Injection, XSS, CSRF and so on).

Defect Logging Form

Issue number: 17

Document: Moodle SRS

Section:

Page:

Major/minor: Minor

Number of times:

Checklist item: Organization

Description: The PDF document of the Moodle SRS is not indexed. Its index has only one item called "Untitled" and referring to page 24.

Defect Logging Form

Issue number: 18

Document: Moodle SRS

Section: 2.2

Page: 6-18

Major/minor: Minor

Number of times: 3

Checklist item: Organization

Description: Over-spaced tables. The task tables can be more condensed.

Defect Logging Form

Issue number: 19

Document: Moodle SRS

Section: 1.3

Page: 3

Major/minor: Major

Number of times: 1

Checklist item: Error

Description: The "Assignment" definition is incorrect ("An Assignment is a task that is submitted by the Teacher and Graded by the Student") as the roles of the Student and the Teacher are switched.

Defect Logging Form

Issue number: 20

Document: Moodle SRS

Section: 1.3

Page: 2

Major/minor: Minor

Number of times: 1

Checklist item: Clarity, Right level of detail, Written Form

Description: The "Chat" definition ("A Chat is a software application that provides a means for having a real-time, synchronous discussion via the web.") is too low-level and is written with a too-technical language.

Defect Logging Form

Issue number: 21

Document: Moodle SRS

Section: 1.3

Page: 3

Major/minor: Minor

Number of times: 1

Checklist item: Clarity, Written Form

Description: The "Choices" definition is poorly written ("Choices is a poll where a question is asked and multiple possible answers are specified").

Defect Logging Form

Issue number: 22

Document: Moodle SRS

Section:

Page:

Major/minor: Major

Number of times:

Checklist item: Enhancements

Description: I18n (Internationalization) and L10n (Localization) issues are not considered. It's better to consider them from the beginning, instead of working hard later to add this support.

CS4004 Spring 2012 Assignment 2

Marking Scheme

1 Presentation (organisation, headings, cover page and other things that were asked for) .	[10 marks]	
2. Quality of Checklist Demonstrate a good knowledge and understanding of the format and criteria for requirements specifications.	[15 marks]	
3. Defect Reports Demonstrate the capability to clearly report a defect in a specification. Number of defects found and logged.	[25 marks]	
Total	[50] The assignment is marked out of 50 but it is worth 10%.	