Code Inspection Report

Anti-Spam Configuration Software Development Project

BSc/MSc in [LEI | LIGE | METI]
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Software Engineering I

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Introduction

The developed software is meant to solve, or at least mitigate, the problem that is the increasing amount of spam email that affects users of this service. It supports both a manual and an automatic configuration and accounts for false positives and false negatives. By using the manual configuration mode, a user can set up the system with his or her own rules, to better suit his or her needs.

Code inspection – Name of the component being inspected

In these package (antiSpamFilterControl) we implemented the manual and automatic configuration and accounts the false positives and false negatives.

Meeting date: *Meeting duration:* *Moderator:* *Producer:* *Inspector:* *Recorder:*	*21/12/2017* *60 minutes* *Ana Patrícia Silva* *Tiago Correia* *André Baptista* *Ana Patrícia Silva*
Component name (Package/Class/Method):	`Package antiSpamFilterControl`
Component was compiled:	*True*
Component was executed:	*True*
Component was tested without errors:	*True*
Testing coverage achieved:	*True (78,3%)*

Code inspection checklist

The checklist for Java code inspection used in this project is available at http://www.cs.toronto.edu/~sme/CSC444F/handouts/java_checklist.pdf and in blackboard ES1 page.

Found defects

Identify and describe found defects, opinions and suggestions.

Found defect Id	Package, Class, Method, Line	Defect category	Description
1	Package antiSpamFilterControl	VC	Non-constant variables start with capital letter
2	Package antiSpamFilterControl	VC	Some static attributes that should be non-static or vice-versa
3	Package antiSpamFilterControl	FD	Not every method parameter value is checked before being used
4	Package antiSpamFilterControl	FD	Some static methods that should be non-static or vice-versa
5	Package antiSpamFilterControl	CN	With automatic configuration the process takes some time to run
6	Package antiSpamFilterControl	CM	Some methods/classes/attributes/variables are missing comments
7	Package antiSpamFilterControl	LP	Some methods have more than 60 lines

Corrective measures

Defect 1 – Locating and correcting every variable that doesn't have constant name. This will be corrected in Sprint 3 by a developer.
Defect 2 – Locating and correcting every static variable the should be non-static. This will be corrected in Sprint 3 by a developer.
Defect 3 – Locating every method parameter value that is not checked before use. This will be corrected in Sprint 3 by a developer.
Defect 4 –Locating and correcting every static method that should be non-static. This will be corrected in Sprint 3 by a developer.
Defect 5 – It doesn't exist a correction for this case. It depends on the class antiSpamFilterAutomaticConfiguration.
Defect 6 – Locating methods/classes/attributes/variables that are not commented and making a proper comment. This will be corrected in Sprint 3 by a developer.
Defect 7 – Methods that are too long should be divided in shorter methods. This will be corrected in Sprint 3 by a developer.

Conclusions of the inspection process

It was verified that the source code should be improved to correct some cases where the code does not adhere to conventions and to optimize some methods. Besides that, it was verified that the user interface should be changed too. With this in mind, there should have been more scheduled meetings and code inspection events to prevent these kinds of issues so late in the development process.