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|  | *Code Inspection Report*  *‘Bom Dia Academia’ Software Development Project*  BSc/MSc in [LEI | LIGE | METI]  Academic Year 2018/2019 - 1º Semester  Software Engineering I  Group 91  68092, Diana Salvador, METI-PL  65799, Ricardo Ferreira, LIGE-PL  73422, Ivo Carvalho, LEI-PL  ISCTE-IUL, Instituto Universitário de Lisboa  1649-026 Lisbon  Portugal  November 2018 |

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# Introduction

*“Bom dia Academia” (BDA) application integrates academic information from Email, Twitter and Facebook.*

# Code inspection – BDA package

*BDA package has 20 Java class files as they are the core of this application.*

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| *Meeting date:*  *Meeting duration:*  *Moderator:*  *Producer:*  *Inspector:*  *Recorder:* | *03/12/2018*  *-*  *Ivo Carvalho* |
| *Component name (Package/Class/Method):* | *Package BDA* |
| *Component was compiled:* | *Yes* |
| *Component was executed:* | *Yes* |
| *Component was tested without errors:* | *Yes* |
| *Testing coverage achieved:* | *EclEmma Java Code Coverage:*  *75,8% (Instruction counters);*  *56,3% (Branch counters);*  *74,4% (Line counters);*  *81,5% (Method counters);*  *100% (Type counters);*  *66,7% (Complexity).* |

# 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.

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| --- | --- | --- | --- |
| **Found defect Id** | **Package, Class, Method, Line** | **Defect category** | **Description** |
| 1 | BDA, Attributes.java, 14 and 15 | VC | “password” and “keyword” attributes with confusingly similar names |
| 2 | BDA, Attributes.java, 19 | VC | variable “OAuthConsumerKey” not in accord with naming conventions |
| 3 | BDA, Attributes.java, 19 | CM | Not enough comments in the code, Twitter “OAuth…” token attributes are not clearly documented |
| 4 | BDA, Filters.java, removeRows, 324 | CM | Comments do not help in understanding the code and what is this method used for. |
| 5 | BDA, GenericMessage.java, 5 | LP | Line breaks between imports |
| 6 | BDA, ReadXMLfile.java, readUsersXMLfile(), 45 | PF | “readUsersXMLfile()” method produces a result that is computed and stored but actually not used. |
|  |  |  |  |

# Corrective measures

Found defect Id 1, “keyword” attribute was renamed to “keywordFilter”.

Found defect Id 2, attributes were rewritten be lowerCamelCase.

Found defect Id 3, Twitter “OAuth…” and Facebook token attributes were added some Javadoc.

Found defect Id 4, “removeRows” method added some more documentation to it to explain why are rows removed.

Found defect Id 5, all imports were placed in a single block without line breaks between them.

Found defect Id 6, readUsersXMLfile() was returning a List<Attributes> only for JUnit purposes. This method was changed to void and public, also getUsersListSize() method was created in ReadXMLfile class for JUnit testing.

# Conclusions of the inspection process

Quality assessment of the component inspected for the purpose of delivery the software needed minor corrections and those are already fixed.