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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*

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| --- | --- |
| *Meeting date:*  *Meeting duration:*  *Moderator:*  *Producer:*  *Inspector:*  *Recorder:* | *03/12/2018*  *?? minutes*  *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:* |  |

# 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 | 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, Attributes.java, 30 | FD | Is every method parameter value checked before being used? No, methods have a string parameter not being checked. |
| 5 | BDA, Filters.java, removeRows, 324 | CM | Comments do not help in understanding the code and what is this method used for. |
| 6 | BDA, GenericMessage.java, 5 | LP | Line breaks between imports |
| 7 | 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 could be renamed to “keywordFilter”.

Found defect Id 2, attributes should be lowerCamelCase.

Found defect Id 3, Twitter “OAuth…” token attributes need some Javadoc

Found defect Id 4, one solution could be the use of *if (object instanceof String).*

Found defect Id 5, “removeRows” method could use some more documentation to explain why are rows being removed at all.

Found defect Id 6, all imports should be in a single block without line breaks between them.

Found defect Id 7, readUsersXMLfile() should be void instead of returning a List<Attributes>.

# Conclusions of the inspection process

Quality assessment of the component inspected for the purpose of delivery the software needs minor corrections.