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Code Inspection Document
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PowerEnjoy

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1. INTRODUCTION

The code inspection is a systematic examination of computer source. It is intended to find mistakes overlooked during the initial development phase, with the aim of developing the overall quality of the software. This document indexes all coding mistakes found following a standard code inspection check-list for the requested classes listed in the underling section 1.1

1.1 Class overview

The Apache OFBiz Project is an open source product for the automation of enterprise processes that includes framework components and business applications for ERP,CRM and other business-oriented functionalities.¹ Among the many, the following classes were assigned for code inspection:

- **ProductStoreCartAwareEvents.java**

- *Location:* apache-ofbiz-16.11.01/applications/order/src/main/java/org/apache/ofbiz/order/shoppingcart/product/ProductStoreCartAwareEvents.java
- *Class role:* see section 2.1
- *Total number of issues found:* TBD

- **ProductDisplayWorker.java**

- *Location:* apache-ofbiz-16.11.01/applications/order/src/main/java/org/apache/ofbiz/order/shoppingcart/product/ProductDisplayWorker.java
- *Class role:* see section 2.2
- *Total number of issues found:* TBD

¹Full source code: <http://mirror.nohup.it/apache/ofbiz/apache-ofbiz-16.11.01.zip>

2. FUNCTIONAL ROLE OF CLASSES

This section analyses the meaning and functionality for each of the inspected classes.

2.1 ProductStoreCartAwareEvents.java

This java class is composed of two static methods. The first static method takes a `HttpServletRequest` and `HttpServletResponse` as input. The method extracts the `productStoreId` String parameter from the request and tries to invoke the second static method. Depending on the success or failure of the second method, the first method returns either the string "success" or "error".

The second static method takes extracted `productStoreID` String and the `HttpServletRequest` as input. The method then :

- returns immediately if the `productStoreID` is null or if it equals the `HttpSession`'s old `productStoreID`.
- throws an exception if `productStoreID` is not related to a valid productStore, if the `webSite` cannot be found in relation to the request or if `webSite` exists but does not allow changing of the `productStoreID`.
- if the points above are not matched, sets the `productStoreID` of the session to the one passed as parameter, clears the old product catalogue and eventually sets the session's currency, locale and time-zone depending on the productStore. Finally the method creates a new shoppingCart for the session without erasing the old one.

2.2 ProductDisplayWorker.java

3. LIST OF ISSUES

- 3.1 Naming conventions
- 3.2 Indention
- 3.3 Braces
- 3.4 File Organisation
- 3.5 Comments
- 3.6 Java Source Files
- 3.7 Package and Import Statements
- 3.8 Class and Interface Declarations
- 3.9 Initialisation and Declaration
- 3.10 Method Calls
- 3.11 Arrays
- 3.12 Object Comparison
- 3.13 Output Format
- 3.14 Computation , Comparisons and Assignments
- 3.15 Exceptions
- 3.16 Flow Control
- 3.17 Files

4. OTHER ISSUES

Section dedicated to other issues found

5. APPENDICES

5.1 References

The following tools where used in the creation of this document:

- *TexMaker 4.5* as Editor

5.2 Effort Spent

- Simone Amico 12h
- Chianella Claudia Beatrice 12 h
- Giovanakis Yannick 12 h