**Checklist**

File: Cart.java

Checked by: JJ Kemp

Description:

Cart to add and remove items.

Rank:

3 – Comments, unused variables.

Hunter Holder hlh229

JD Stewart jds1172

JJ Kemp jhk114

Austin Gerald awg62

Roop Saini rss233

Srikar Devarakonda sd1454

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| **Item** | **Pass/Fail** | **Comments** |
| Do all functions conform to the same naming convention? | Pass | CamelCase is used. |
| Do all variable names conform to the same naming convention? | Pass |  |
| Is there adequate comments for each function? | Fail | Only two comments. Unsure as to what is occurring based off of comments. |
| Does the code compile without errors? | Pass |  |
| Do the names of methods describe the functionality of the method? | Pass |  |
| Does the code have a single class performing many functions? | Pass | Pass being that the class is not performing many functions. |
| Does the code give the consistent output when the same input is given multiple times? | Pass |  |
| Do the comments tell what exactly the code is doing? | Pass | Comments that are given, do explain what they are commenting. |
| Are there any unused variables? | Fail | Variable **request** in function processRequest is not used. |
| Does the code have repeated blocks of code (where instead a function could be used)? | Pass | No Repeated blocks. |
| Do the names of variables describe the purpose of the variable? | Pass |  |
| Do errors reported to the user reveal important information about the system? | Pass | No errors are reported to the user unless it is fatal. |
| Do recursive functions have a definite exit? | Pass | No recursive methods. |
| Are all opened files / connections properly closed? | Pass | No opened files to close. |
| Do all user inputs have proper validation and sanitation checking? | Pass | No user inputs. |
| Do all functions with a return type return to a variable? | Pass |  |
| Are all potential exceptions handled by catching exception and running corresponding code? | Pass | No exceptions. |
| Is the code reusable? | Pass | Modular class. |
| Is the code tasks evenly distributed throughout functions? | Pass | Getters and setters and one process. |
| Do all decision statements account for all possible results? (If and else) | Pass |  |
| Do all loops have a proper (default) exit condition? | Pass | No loops. |
| Are variables that never changed (treated as constants) defined as constants? | Pass | No constants. |
| Are values assigned to all variables which are used for output? | Pass |  |
| Are mathematical operations only conducted on variables that allow the operations? (int, long, etc…) | Pass | No mathematics. |
| Do actions accessing array and file stay within bounds? | Pass | Using vector.copyInto(String[]) |
| Are all divisors tested for zero? | Pass | No dividing. |
| Are files checked for existence before attempting to access them? | Pass | No file accessing. |
| Is every memory allocation deallocated? | Pass | Using java, garbage collect handles. |
| Do all switch statements have a default? | Pass | No switch statements. |

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#### Sources:

* <http://blog.smartbear.com/code-review/creating-your-code-review-checklist/>
* <https://www.liberty.edu/media/1414/%5B6401%5Dcode_review_checklist.pdf>