Test criteria for Product

Date: 15/03/2015

Author: Metrani Nikhil Dilip

1. Instantiation test
   1. All attributes should be null/0 on default instantiation
   2. Attributes should be equivalent to parameters provided during instantiation
2. setId test
   1. Id must be updated with value provided in parameter if category is null
   2. If category is assigned, must ensure to prepend three letter category code followed by forward slash “/”
   3. If parameter is null, id must not be updated
3. getId test
   1. Must return null after default instantiation.
   2. Must return value set by instantiation parameter
   3. Must return value set by setId() is category is null
   4. Must return “categoryCode”+“/” followed by category code set by setId() when Category is not null
4. setName test
   1. Name must be changed to the value provided in parameter
   2. If parameter is null, name must not be updated
5. getName test
   1. Must return null after default instantiation
   2. Must return value set by instantiation parameter
   3. Must return value set by setName ()
6. setDescription test
   1. Description must be changed to the value provided in parameter
   2. If parameter is null, description must not be updated
7. getDescription test
   1. Must return null after default instantiation
   2. Must return value set by instantiation parameter
   3. Must return value set by setName ()
8. setPrice test
   1. Must update the value of price attribute
   2. If parameter is null, price must not be updated must not be updated
9. getPrice test
   1. Must return 0 after default instantiation
   2. Must return value set by instantiation parameter
   3. Must return value set by setPrice ()
10. setQuantity test
    1. Must update the value of price attribute
    2. If parameter is null or negative, quantity must not be updated must not be updated
11. getQuantity test
    1. Must return 0 after default instantiation
    2. Must return value set by instantiation parameter
    3. Must return value set by setQuantity ()
12. addQuantity test
    1. Must add to given quantity to Available quantity
    2. Must not perform operation if given parameter is negative
    3. Must return new available quantity after addition
13. deductQuantity test
    1. Must subtract to given quantity from Available quantity
    2. Must not perform operation if given parameter is negative or greater than available quantity
    3. Must return new available quantity after addition
14. setReorderThresholdQuantity test
    1. Must update the value of reorderThresholdQuantity attribute
    2. If parameter is null or negative, reorderThresholdQuantity must not be updated must not be updated
15. getReorderThresholdQuantity test
    1. Must return 0 after default instantiation
    2. Must return value set by instantiation parameter
    3. Must return value set by setReorderThresholdQuantity ()
16. setOrderQuantity test
    1. Must update the value of orderQuantity attribute
    2. If parameter is null or negative, orderQuantity must not be updated must not be updated
17. getOrderQuantity test
    1. Must return 0 after default instantiation
    2. Must return value set by instantiation parameter
    3. Must return value set by setOrderQuantity ()
18. setCategory test
    1. Must update the value of category attribute
    2. If parameter is null, category must not be updated must not be updated
    3. If category was changed, the id must be updated accordingly
19. getCategory test
    1. Must return null after default instantiation
    2. Must return value set by instantiation parameter
    3. Must return value set by setCategory ()
20. setBarcode test
    1. Must update the value of barcode attribute
    2. If parameter is null, barcode must not be updated must not be updated
21. getBarcode test
    1. Must return null after default instantiation
    2. Must return value set by instantiation parameter
    3. Must return value set by setBarcode()
22. toString test
    1. Must returnstring value- <,,,0,0,0.0,,0> on default instantiation.
    2. Must return string containing values of following attributes separated by comma:

Id, name, description, quantity, price, barcode, reorderThresholdquantity, orderQuantity

* 1. If any of the attributes are null, the return value in place of the attribute must be empty string.

1. Equals test
   1. Must return false if either id does not match
   2. Must return true if id matches