# Task 2 Survey (Test Smell Describer)

Improving Developer's Awareness about Test Suite Quality with Test Smell Summaries

* Required

1. **Email address** *

_____

# The second part of our survey consists of two refactoring tasks coupled with a survey. For each task we will provide you with the source code of Apache ofbiz, from which we additionally selected two test classes.

## Testing Task 2

a) Your target classes are :
1. org.apache.ofbiz.base.util.collections.test.FlexibleMapAccessorTests
2. org.apache.ofbiz.base.util.cache.test.UtilCacheTests

b) Your goal is to improve the test code improving it performance or comprehensibility (e.g., make it smell free or reduce the number of detected smells).

c) Timing: For each test class you have maximum 30 minutes to improve the code.

d) The above classes can be found in the Apache Ofbiz project folder, in the paths mentioned below:
1. ...\src\framework\base\src\main\java\org\apache\ofbiz\base\util\collections\test\FlexibleMapAccessorTests.java
2. ...\src\framework\base\src\main\java\org\apache\ofbiz\base\util\cache\test\UtilCacheTests.java

E) The corresponding classes under test are available at the path mentioned below:
1. ...\src\framework\base\src\main\java\org\apache\ofbiz\base\util\collections\FlexibleStringExpander.java
2. ...\src\framework\base\src\main\java\org\apache\ofbiz\base\util\cache\UtilCache.java

Note: Please use chronometer watch or stopwatch to record the time you have spent for the whole task. Before performing the task and starting the count down you can have a look at the project packages to get more familiar with the source code.

## Additional Information to Perform Task 2

Try to improve the code of the mentioned classes and try to make it smell free or reduce the number of smells if it contains more that one smell, with the help of generated smell summaries/descriptions at method and class level.

Please do not forget to note down the amount of time that was required by you to complete the task.

Now you are ready to begin the task.

# Answer the following questions after the completion of Task 2

2. **Do you have experience with the project Apache ofbiz?** *
   *Mark only one oval.*

   |  | 0 | 1 | 2 | 3 | 4 | 5 |  |
   |---|---|---|---|---|---|---|---|
   | No Experience | ⬭ | ⬭ | ⬭ | ⬭ | ⬭ | ⬭ | Highly Experienced |

3. **What improvements did you make in the code?** *

   _____

   _____

   _____

   _____

   _____

4. **Did the improvements fix the smelly code?** *
   *Mark only one oval.*

   ⬭ Yes

   ⬭ No

   ⬭ Maybe

5. **How difficult was it to perform the task?** *
   *Mark only one oval.*

   |  | 0 | 1 | 2 | 3 | 4 | 5 |  |
   |---|---|---|---|---|---|---|---|
   | Not difficult | ⬭ | ⬭ | ⬭ | ⬭ | ⬭ | ⬭ | Very Difficult |

6. **Time required to perform the complete task 1,
   Report the time in minutes and seconds (e.g.
   15 minutes 45 seconds)** *

   _____

A copy of your responses will be emailed to the address you provided

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