CSC207H: Software Development Group Assignment 2

Overview

Your basic task is to test three java classes and produce a short report outlining the problems that you have found. The classes `Contact`, `Source` and `ContactManager` are related to the first group assignment and the software required by Senior Care Solutions.

Code Specifics

The file `cm.jar` contains the three classes above, plus three exception classes. All the classes are in the package `cm`. You should carefully read the JavaDoc for package cm. You will not be given the source code for these classes and using a tool to try to recreate the source code from the class files is **not allowed**.

Your Task

Each member of your group should **separately** write their own suite of JUnit test cases to test the classes in the package. You should probably write between 10 and 20 unit tests per person and each group member must, at a minimum, write enough tests to discover at least two problems with the code. It is acceptable for different group members to have somewhat similar tests for the same situation, but the test names and the fixtures will not be identical because each person should be writing their own tests without group discussion.

Once you have discovered a bug in the code exposed by some failing test, you should write and add to your test suite some related tests that can help you better understand the problem. We will discuss this idea in lecture next week.

Next, each group member should **separately** write a very brief description of each problem they uncovered. The description should include an explanation (using full sentences) of what is not working and should reference all the test cases that relate to this bug. This should definitely include the test case(s) that failed, but may also include related cases that passed.

Finally, groups will **together** produce a summary list of the problems they have collectively discovered. This should not simply be a concatenation of the four individual lists, but should be a cohesive document. If two or more group members find the same problem, the summary document should describe it only once — perhaps using test cases from more than one group member. The style of writing and presentation format should be consistent throughout this summary document.

Technical Tool Requirements

To produce your reports, you will use a wiki. A Wiki is a software tool that allows the collaborative production of simple web sites. We will be creating a wiki for each group and sending you the associated URL. This won't be ready for another few days but that shouldn't prevent you from starting your bug hunting.

Each group member must add a page to the wiki that holds his or her report. The main page from the group wiki should include a link to each of these individual pages along with the names of their authors. It should also have either a link to the summary report or the report itself.

Additionally each group member should check their JUnit test files into the group repository using a filename that includes their own UTORid as part of the name.

Learning Goals

By the end of this assignment, you should have:

1. practiced determining appropriate test cases for code that you did not write and for which you only have the interface documentation,

2. practiced using JUnit to implement and run test cases,

3. used tools to support collaborate software development such as a wiki and a shared version control repository,

4. learned and practiced expressing technical content in a professional written context such as bug report to another developer, and

5. experienced some of the joys and frustrations of working with others and consequently developed some strategies to facilitate productive group interaction.