

CITS5501 Software Testing and Quality Assurance

Semester 1, 2020

Workshop exercises, week 3

Scenario

You are working on a software development team that is developing a productivity app. It will be available as both a mobile app, and as a browser extension. It is designed to record where users spend their time on the web or on their mobile devices: it will provide weekly reports of what websites or applications they use, and also will allow users to “block” themselves from using time-wasting websites or apps.

The mobile app needs to record usage information, and send this to a server operated by your company – analysis of records is done on the server, and reports are sent by email.

The “blocking” functionality, however, does not need access to the server.

Consider the following, and provide your answers on an A4 sheet of paper:

1. You are working on code which will analyse usage information submitted by a user. Other developers are working on the code for the mobile app, and for other parts of the server. Your code consists of several Java classes, and you are partway through writing Javadoc comments for the classes and methods.

A colleague of yours says that since the code is only being used internally within your company – it is not released to customers – there is no need to document the classes and methods in this way. Do you think they are correct? Why or why not?

2. Most of the tests for the server code make use of the JUnit framework. Some of these tests require a database to be set up and connected to, before the test is run. You notice that the methods containing these tests all have identical code for setting up and connecting to the database. Is this good practice for test cases? Explain why or why not.

This workshop exercise is worth 5% of your final grade. All work is to be done individually.

Submission

You can either hand your answers in before the end of the workshop (11 a.m., Wed 11 March), or submit them electronically using [cssubmit](#) (also due by 11 a.m.).

If submitted at the workshop, put answers on an A4 page; hand-written is fine, as long as it is legible. Remember to write your name and student number on the answer sheet.

If submitting via cssubmit, submit a 1-page A4 pdf file. (PDFs can be exported from MS Word and most other word processing software – if you don't know how to do this, just Google “export ms word pdf”.) The font for body text should be between 9 and 12 points and easily readable when printed out.

Assessment

An assessment rubric for the exercise is available [here](#).