Chapter 1

Tools and Test Equipment Required

In this chapter we are going to present the tools that will be used to perform the integration test. They will be presented with their name, a link to their reference documents in the **??** and a short explanation concerning the reasons why and the situations where they will be used[1].

The first one is *Mockito*, available at the website (it is a GitHub repository) `http://mockito.github.io`. This tool is especially useful to design and to implement the program stubs, described in the **??**, because it allows to specify predefined *answer* to each method calling with a few lines of code.

The second tool is *Arquillian*, developed to make easy the integration tests. Hence, its use will allow us to perform the integration tests.

Further information about this tool are available at its website, `http://arquillian.org`.

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[1]The presented tools are all referred to a project developed in Java Enterprise Edition, whereas the Design Document is not refer to any particular development platform. This choice was made to fulfil this document showing real tools. Obviously, if the project will not be realized using Java Enterprise Edition, the presented tools cannot be used. Nevertheless, the integration tests are not related to one these tools, so they can be easily adapted to another tool.

Finally, an important test about the functionalities of *myTaxiService* is about its capacities and response times during normal or intense executions. This kind of test can be performed by using *Apache JMeter*[2] tool and with a little different client stubs w.r.t. the one defined in the **??** (able to return random, but valid data instead of returning always the same ones). Despite the importance of this kind of tests, they are not argument of this document.

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[2]Further information about this tool are available at `http://jmeter.apache.org`.