D10 – Performance testing Requirements

Requirements for levels C, B, and A

Item 1.   A document that describes the costs of your project. The rest of the documentation is expected to be provided in your project management system and your source code, where appropriate.

Item 2.   A conceptual model and a UML domain model regarding project "Acme Chorbies".

Item 3.   An Eclipse/Maven project that fulfils the requirements in project "Acme Chorbies".

Item 4.   A functional test suite that fulfils the following requirements: a) you must select a use case that involves a listing and an edition requirement; for that use case, you must implement at least 10 test cases that provide a good enough coverage of the statements and the parameter boundaries in your code. b) For the remaining use cases, you must implement at least one positive test case and two negative test cases. Every test case must be properly documented. Please, copy the functional requirement(s) that they are intended to test as a comment at the beginning of your test cases; add a short remark regarding what each test case is intended to test.

Item 5.   A performance test suite that fulfils the following requirements: a) There must be at least one jMeter test case per use case; b) There must be a report in which you analyse what the maximum performance of your system is. The report must include screenshots where appropriate.

Item 6.   A script to create the corresponding database in the pre-production environment and a war artefact that implements your project. The war artefact must be deployable and runnable on domain "www.acme.com".

Requirements for level A+

Item 7.   We've studied how to record a script that emulates a user interacting with our web information systems. Unfortunately, the data that we enter in the forms is recorded, too, which means that every time a script runs, the same data is used once and once again. jMeter allows to use CSV files to provide data to the forms. To earn your A+, you must deliver the following items:

a.   Write a report in which you explain how this jMeter mechanism works. The report's expected to be 1 000-word long; illustrations are strongly recommended.

b.   Deliver at a test case in which you use this mechanism.