



Report

Test Plan



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1 Scope

The scope clarifies what objectives are part of this test iteration and what objectives that cannot be completed for different reasons. In the *requirements* section the requirements stated by the product owner is listed, the requirements that will not be tested during this iteration are stated in the *out of scope* section. There is also an *priorities* section that will point out what priorities the different requirements have, that is what the software testing team should have as main focus early in the iteration to ensure these requirements will be tested.

1.1 Requirements

Use Cases

- UC1 Start Server
- UC2 Stop Server
- UC3 Request Shared Resource

Supplementary Requirements

1. Responsive under high load
the server response time should be less than 2000 ms when 100 users access resources
2. Minimum requirements for *HTTP 1.1*
the response codes *200*, *400*, *403* and *404* should be used at proper times
3. Work on Windows, Mac and Linux
all passing test cases should pass on the operating systems
4. Licensed under *GPL-2.0*
5. Plain-text access log

Informal Requirements

- Usability
- Security

1.1.1 Out of scope

Since the software testing team will not have access to a Windows environment, the requirement of the web server to work in a Windows environment will be tested during the next iteration.

1.2 Priorities

The highest priority of this test iteration will be to test the use cases scenarios specified by the product owner along with stress testing the web server and ensure that the access log is available in plain text. Tests to assure that *HTTP 1.1* requirements are fulfilled and perform tests in different operating system environments *MacOS and Linux* is also a high priority.

A lower priority in this test iteration is to test the informal requirements since the software testing team have limited time to finish the iteration.

2 Method

As specified by the product owner, the tests will primarily be performed using manual testing. However, stress tests and HTTP response code tests will be performed using the application *JMeter*. All use case scenarios will be tested before the supplementary and informal requirements. The source code is available to the software testing team but Black-Box testing will mainly be performed due to time-restraints.

3 Risk

If a member of the software testing team gets sick or for other reasons can't participate in the test iteration the lower priority of the scope will not be performed. If this happens, there is also a risk that the performed tests will be less extensive.

Another risk is if a team member loses access of their computer environment due to computer failure. In this case, tests for the affected operating system environment will not be performed.

4 Test Results

The results of the manual and the JMeter tests will be gathered and reported in a test result document which will contain a Tractability Matrix that will show how the test cases and use cases are connected. Along with a test case table that will show the result of each test along with difference in results between the operating systems.

4.1 Responsibilities

Each member of the software testing team is responsible for learning and understanding the tools listed in the Test Strategy document.

The software testing team is responsible for creating suitable test cases, executing the tests and gather the test results in the test results document. The project manager is then responsible for reviewing the test results and take appropriate action.

4.2 Deadline

The test iteration shall be concluded by the 23 of December 2017. By this date, the Test Strategy, Test Plan, Test Cases and Test Results shall be completed and submitted to the product owner for review.