

# Report

## Test Plan



December 19, 2017

Author:

Caroline Nilsson (cn222nd)

Daniel Alm Grundström (dg222dw)

*Term:* HT 2017

Course: 2DV610 - Software Testing

## **Contents**

1	Scope	1
	1.1 Requirements	1
	1.1.1 Not in the test scope	1
	1.2 Priorities	1
2	Method	1
3	Risk	2
4	Test Results	2
	4.1 Responsibilities	2
	4.2 Deadline	2

## 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 testers should have as main focus early in the iteration to ensure these requirements will be tested.

### 1.1 Requirements

#### **Functional Requirements**

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

#### **Non-functional Requirements**

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

#### In official Requirements

- Shall have a help function the -help command shall provide helpful information to the user
- Shall support *https*

#### 1.1.1 Out of scope

Since the testers 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 functional requirements specified in the use cases along with stress testing the web server and ensure that the access log is available in plain text.

A lower priority during this test iteration is to test *HTTP 1.1* requirements and perform tests in different operating system environments.

## 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 functional requirements will be tested before the non-functional requirements. The source code is available to the testers 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 test results of the manual and stress 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.