



**Linnéuniversitetet**  
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# Test plan

*For “My web server”*

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## 1. INTRODUCTION

This plan is to testify the possible market niche giving out a simple to deploy java-web-server that can be deployed on many different devices in the small Software Development Company (SDC). Furthermore, it is aimed to redistribute this server on a wide range of Internet Of Things (IOT). As SDC employees, this document is to plan the testing and to evaluate the current state of “My Web Server”.

This document describes the plan for testing scope, quality objective, key roles and responsibilities, method, test Iteration, test completeness and deliverables documents. It links with the document ‘test strategy’.

### 1.1 Purpose

This web server requires minimal configuration as well as easy integration and adaptation for the IOT developer. Also, it is required easy access and absolute security for the end-customers. The purpose of this document is to evaluate the current state of “My Web Server” that if the abandoned software fulfills the requirements as stated.

### 1.2 Requirements

- The web server should be responsive under high load
- The web server must follow minimum requirements for HTTP 1.1
- The web server must work on Linux, Mac, Windows.
- The source code should be released under GPL-2.0.
- The access log should be viewable from a text editor.

## 2. Scope

The overall purpose of the testing is to ensure the web-server meets all of its technical, functional and business requirements. It describes the overall test plan and strategy for the testing in the web-server. The approach will be described in the related document ‘test strategy’. This document will keep updating for each release.

### In Scope

The system”*My web server*” Test Plan defines the Unit Testing, integration testing, Function Testing, Load Testing, Stress testing, Business Cycle Testing, Test assess log, and test on mac and windows 7.

Testing of all functional, load, business cycle, assess log and test cases requirements listed in the test cases document.

### **Out Scope**

In our team, we will not test on Windows (XP, Vista, 7, 10, Server 2008) and Linux environment. In this case, it will be tested during the next iteration.

## **3. Test level**

### **3.1 Primary Level**

The primary objective is: load and stress test discover problems in software systems, including performance bottlenecks, memory leaks, etc.

Also, test to assure that the web server fulfilled minimum requirements for HTTP 1.1 and test in different operating system(MacOS and windows 7)

### **3.2 Second Level**

The second objective is to test source code released under GPL-2.0 , the access log viewable from a text editor and UI testing.

## **4. Key Roles and Responsibilities**

<b>Role</b>	<b>Name</b>	<b>Responsibilities</b>
<b>Manager</b>	Meng Li	Writing the report Divide the work and design test
<b>Tester</b>	Qian Xu	Execute tests document results

## **5. Method**

Most of the tests will test manually apart from function, load, stress test. Load testing and stress test will using Jmeter, function testing will using postman.

## 6. Test Iteration

The tests are divided to 3 Iterations.

Iteration	Goals	Start Date	End Date
Iteration #1	The first iteration focus on basic test include: Unit test and Integration Test	11/22	11/23
Iteration #2	The second iteration focus on: Business Cycle Test, assess log, UI testing and Functional Testing: check web server works on HTTP 1.1 standard	11/26	11/27
Iteration #3	The third iteration focus on Stress Testing: check if web server can work on high load Load Testing: check response under high load	11/27	11/30

## 7. Test Completeness

Testing will be considered complete when the following conditions have been met:

- The project is stable.
- All the unit test passed.
- Complete test all the requirements.

## 8. Deliverable Documents

- Test Strategy
- Test Plan
- Test Cases
- Test Report

## 9. Future Test

Web server can be tested by working on the other series of Windows and linux in the future. However, the security testing will not cover these because of the techniques limited.