



Test Strategy **My Web Server**

Version 1.0

Dated: 22nd December 2017

1. Purpose

This document is a high-level presentation of the test approach to be undertaken in relation to “My Web Server”. It will include details of the test goals, resources, and schedules.

2. Goals

SDC	<ul style="list-style-type: none">• An easy to deploy java-web-server• Deployable on many devices
IoT developers	<ul style="list-style-type: none">• Minimal configuration needs to run the server• An easy integration and adaptation of the web-server
Customer	<ul style="list-style-type: none">• An easy access server• An absolute security server

3. Available equipment

The tests will be run on my personal laptop which is Lenovo Ideapad with Intel core i7-6500U. The Windows used is Windows 10.

I already have the following software installed and properly configured:

Eclipse Neon.3 (4.6.3)
Chrome 63.0.3239.84 (Official Build) (64-bit)
Apache JMeter 3.3

The default configuration used:

- Port: 1091
- Shared resource folder: /MyWebServer-master/tests/se/lnu/http/resources/inner

4. Testing Types

4.1 Functional Testing

Test objectives	Ensure proper application functioning, data entry, processing, and retrieval.
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Techniques	<p>Execute each use case flow using valid and invalid data to verify the following:</p> <ul style="list-style-type: none"> • The expected results occur when valid data is used. • The appropriate error or warning messages are displayed when invalid data is used • Each business rule is properly applied
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4.2 Unit Testing

Test objectives	Verify the proper functioning of the existing JUnit test suites
Techniques	Run all the JUnit tests
Notes	The server should be running before the execution of the tests

4.3 Stress Testing

Test objectives	Exercise the target-of-test functions under a condition when multiple users performing the same transactions against the same data to observe and log target behavior that identifies and documents the condition under which the system fails to continue functioning properly
Techniques	Multiple users (Thread) used to access the same data simultaneously

4.4 Integration Testing

Test objectives	Verify the proper functioning of the program units combined and tested as groups.
Techniques	Run all the existing automated integration test suites

Notes	The server should be running before the execution of the tests
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5. Schedule

The time for this project is one man-week which is 40 h and should be done by 23rd December, 2017.

6. Risks

One of risks if I get sick or maybe have family emergencies. The other risk is that I don't have access to Linux or Mac, which results in testing only will be conducted in a Windows environment; the risk is that the webserver may not work on the other operating systems.

7. Deliverables

- Test Plan
The Test Plan focus and describe what to test, how to test, when to test and who will do what test.
- Test Strategy
The test strategy defines "Software Testing Approach" to achieve testing objectives. It sets the standards for testing processes and activities.
- Manual Test Cases
The manual test cases document will contain the details and steps need to have the tests properly carried out. Each test case should have a unique ID, the tester name, the steps need to be executed and the expected result in the end of the test process.
- Test Report
The test report contains the result for tests that have been executed each test has passed or failed. It also contains an overall evaluation of the tests and their actual results.