
STRATEGY

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TESTING GOALS

The stakeholders aim to test an abandoned java web server to determine whether it can be redistributed to different clients and to be used for IOT and transferring data from sensors. Within the given schedule multiple requirements must be tested. The web server should be responsive under high load and must be running at least HTTP 1.1. The server source code should be generally secure from malicious attacks.

The access log must be viewable with a large variety of text editors.

Furthermore, the requirements that are coming will the stakeholders and possibly the end-user/customer must be taken into consideration and the appropriate tests for those requirements should follow.

STAKEHOLDERS

Software Development Company(SDC) - Aims to redistribute a server on a wide range of IOT to present information from sensors and others.

Test Team - Aims to test different scenarios to determine whether the server is fulfilling the requirements from SDC.

Client Developers - Clients who are going to use the server for their sensors and in general IOT. They should be able to integrate the server in their individual businesses.

Customers - The final customers are going to use the final product fully functional.

RESOURCES

Time - The project is scheduled for 20 work hours to complete in the boundaries of one week.

Staff - A test leader “TL” is assigned to the project.

Expert - The TL can contact an expert on testing matters.

TOOLS

SOFTWARE

- Windows 7 Professional 64 bits
- Virtual Box 6.0
- Mozilla Firefox
- Google Chrome
- cURL 7.74
- wput 0.6
- IntelliJ IDEA
- Various Boot-only USB drives.

HARDWARE

- Lenovo Thinkpad:
- Intel Core I5 – 4300U
- 8GB of RAM
- Integrated GPU IntelHD3000

STRATEGY

The staff of testers is unfamiliar with MyWebServer so the first thing to do is an exploratory test. This test will provide the staff with the proper knowledge to conduct the further phases of testing and to estimate the capabilities of the software as well as to establish further the testing objectives of the system.

After the exploratory test without prior knowledge the staff will get familiar with the documentation provided with the software. Then the documentation will be evaluated, and the supplementary use cases and requirements will be compared to the ones defined by the stakeholders and any missing requirements will be added into consideration when the testing is being held.

The next step will be to evaluate the already included tests and compare them to the newly established requirements by the stakeholders. If they are not valid and not up to the expectation of the stakeholders and the testing staff the tests will be updated to complement properly the code and documentation. Manual test cases will be created according to the test plan specified for the objective.

Following the evaluation and manual cases the same cases should be applied to the configuration test cases which are very important to the nature of IOT.

After conducting the functionality tests the server will be tested for basic security vulnerabilities.

After the conduction of all phases the staff will give an estimates and propositions for the next iteration in terms of further testing.