

Linnæus University Sweden

[Document type]

Test Report

[Subtitle]



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Semester: HT20 Course code: 2DV610



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Table of contents

No table of contents entries found.

Appendix



Sweden

1 Introduction

Software Development Company (SDC) aims to redistribute a simple to deploy web-server on a wide range of Internet Of Things (IOT) to present information from sensors etc. The web-server can be deployed on many different platforms and therefore that can attract attention of a wide range of IOT developers. The SDC management has found an open source abandonware software called "My Web Server" that may fulfill the requirements as stated in the requirement document. One test lead needs to deliver a strategy, plan, test-cases as well as a test-report in one week.

2 Test Traceability

Requirements	Reqs	UC1	UC2	UC3	Req2	Req3	Req4
Identifiers	Tested						
Test Cases	10	1	1	1	1	5	1
1 (1.1, 1.4)	2	X				X	
2 (1.2, 1.2.a)	2		X			X	
3 (2.1, 2.2)	2			X		X	
4 (3.1, 3.2)	2				X	X	
5 (Req4)	2					X	X

3 Manual Tests Overview

Test Case	Requirement	Pass / Fail
TC1	UC1, Req3	Pass
TC2	UC2, Req3	Pass
TC3	UC3, Req3	Pass
TC4	Req2, Req3	Pass
TC5	Req4, Req3	Fail



Sweder

4 Manual Test Cases

4.1 Test Case 1: Start Server Successfully

Use Case: UC 1. Start Server

Requirement: Req3

Scenario: Starts when an administrator wants to start the server. The system starts a web server on the given port and presents that the server was started and write a note in the access log.

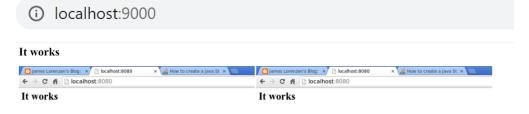
Precondition: The server is not deployed yet

Test Steps:

- 1. Set Project JDK to java "version 1.7" and Project language level to "7
 - Diamonds, ARM, multi-catch etc".
- Edit Configuration for the class "HTTPServerConsole", and set Program Arguments as "9000
 - C:/Github/Repository/2DV610/MyWebServer-master/bin/se/lnu/http/resources/inner/".
- 3. In terminal enter "java se.lnu.http.HTTPServerConsole 9000 ~/MyWebServer-master/bin/se/lnu/http/resources/inner/".
- 4. In web broser enter "localhost:9000".

Expected Results:

Web browser:



Console:



Sweden

Sweden

4.2 Test Case 2: Start Server with Taken Socket Port Number

Use Case: UC 1.2. Start Server

Requirement: Req3

Scenario: System asks for socket port number and shared resource container.

The web server could not be started due to the socket was taken.

Precondition: The server is not deployed yet

Test Steps:

- 1. Set Project JDK to java "version 1.7" and Project language level to "7
 - Diamonds, ARM, multi-catch etc".
- 2. Edit Configuration for the class "HTTPServerConsole", and set

Program Arguments as "80

C:/Github/Repository/2DV610/MyWebServer-

master/bin/se/lnu/http/resources/inner/".

- 3. In terminal enter "java se.lnu.http.HTTPServerConsole 80
 - ~/MyWebServer-master/bin/se/lnu/http/resources/inner/".
- 4. In web broser enter "localhost:80".

Expected Results:

Console:



Sweden

4.3 Test Case 3: Stop Server Successfully

Use Case: UC 2. Stop Server

Requirement: Req3

Scenario:

1. Starts when a user wants to stop the server.

2. The system stops the web server and presents that the webserver has been stopped.

Precondition: A web server has been started.

Test Steps:

- 1. Type "stop" in the console.
- 2. Navigate to web server.

Expected Results:

Web browser:

(i) localhost:9000



This site can't be reached

localhost refused to connect.

Try:

- Checking the connection
- Checking the proxy and the firewall

ERR_CONNECTION_REFUSED

Reload

Console:



Sweden

```
This is the server of the code of the code
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Sweden

4.4 Test Case 4: Request Shared Resource Not Found

Use Case: UC 3. Request Shared Resource

Requirement: Req2, Req3

Scenario: The system delivers the shared resource to the browser and a success message is written to the access log. The shared resource cannot be found.

Precondition: A web server has been started.

Test Steps:

- 1. Remove the secret.html file.
- 2. Navigate to web server.

Expected Results:

Web browser:

(i) localhost:9000

404 Not found

Console:



Sweden

4.5 Test Case 5: GPL-2.0

Requirement: Req4

Scenario: The source code should be released under GPL-2.0

Precondition: A web server has been started.

Test Steps:

1. Check LICENSE file.

Expected Results:

GPL-2.0 (General Public License, version 2)

Actual Results: Fail

MIT (Massachusetts Institute of Technology License)

The MIT License (MIT)

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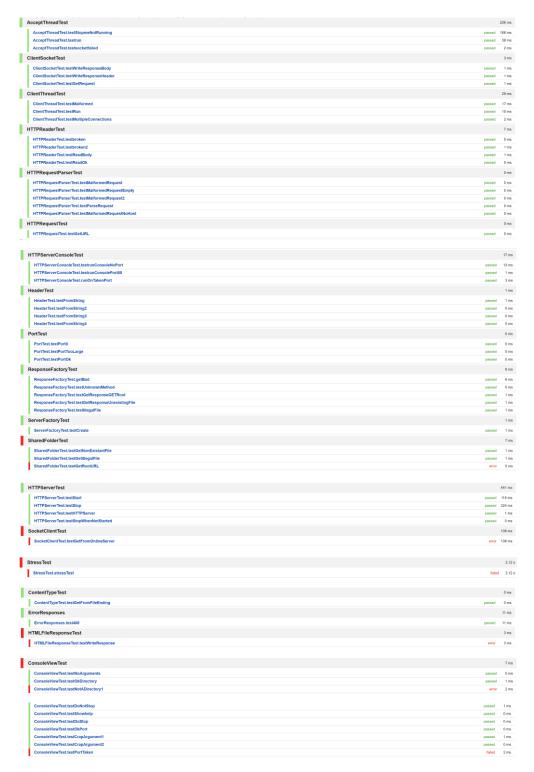
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5 JUnit Tests





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6 Resources

Resource Type	Resource
Staff	1 Test Lead
Time	At Least 20 Hours
Equipment	Windows 10 Home with Processor Intel® Core TM i7-
	10519U CPU @ 1.80GHz 2.30 GHz
Software	IntelliJ IDEA 2020.3
	JDK: Java Version 1.7
	Web-Browser: Chrome
	JUnit
	Apache JMeter

7 Conclusion

During testing process, the manual testing resulted in more failed tests than the result. Because some of the test cases are combined, therefore, they do not present the precise result. The source code is not released under GPL-2.0 but actually having a MIT License.