

Report

Test Report



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1 Licence Compatibility

Requirement 4: The server should be released under GPL-2.0

MyWebServer has previously been released under MIT which is compatible with GPL-2.0 and it should not cause any complications 1 . However, to avoid release complications the server should be distributed with OpenJDK which is licensed under GPL- 2.0^2 . The server executable should also be striped of $JUnit\ 4.12$ which is licensed under ELC and is therefore not compatible with GPL- 2.0^3 . It would also be preferred to remove Mockito from the executable even if it's released under MIT which is compatible with GPL- 2.0^3 .

2 Traceability Matrix

| Requirement Matrix | | | | | | | |
|--------------------|--------|--------|--------|--------|--------|----------|----------|
| Requirement | Reqs | Req. 1 | Req. 2 | Req. 3 | Req. 5 | Informal | Informal |
| Identifiers | Tested | | | | | Req. 1 | Req. 2 |
| Test Cases | 38 | 1 | 4 | 16 | 3 | 10 | 4 |
| 1.1 | 2 | | | X | | X | |
| 1.2 | 3 | | | X | | X | X |
| 1.3 | 3 | | | X | X | X | |
| 1.4 | 2 | | | X | | X | |
| 2.1 | 2 | | | X | | X | |
| 2.2 | 3 | | | X | X | X | |
| 3.1 | 2 | | X | X | | | |
| 3.2 | 2 | | X | X | | | |
| 3.3 | 2 | | X | X | | | |
| 3.4 | 2 | | X | X | | | |
| 4.1 | 4 | X | | X | | X | X |
| 5.1 | 3 | | | X | X | X | |
| 6.1 | 2 | | | X | | X | |
| 6.2 | 2 | | | X | | X | |
| 7.1 | 2 | | | X | | | X |
| 7.2 | 2 | | | X | | | X |

¹https://www.gnu.org/licenses/license-list.en.html#Expat

²http://openjdk.java.net/legal/gplv2+ce.html

³http://junit.org/junit4/license.html

⁴https://www.gnu.org/licenses/license-list.en.html#EPL

3 Test Cases - Result

√= Pass, **X**= Fail

| 1.1 Mac Unable to connect Socket 80 was taken Port is taken 21/12 X | Test Case | OS | Expected Output | Actual Output | Date | Pass |
|---|-----------|-------|-------------------------|--------------------------------------|-------|------|
| Linux Unable to connect Socket 80 was taken Port is taken 21/12 Linux Unable to connect Socket 80 was taken Port is taken 21/12 Mac No access to folder Var/root/ Started | 1 1 | Mac | Unable to connect | As expected | 21/12 | 1 |
| Socket 80 was taken | 1.1 | | Socket 80 was taken | Port is taken | 21/12 | X |
| 1.2 Mac No access to folder /var/root/ Started HTTP Server 21/12 X | | Linux | Unable to connect | As expected | 21/12 | 1 |
| Linux | | | Socket 80 was taken | Port is taken | 21/12 | X |
| Linux No access too folder /root/ Started 1.3 Mac Cannot write to server log file log.txt Started Linux Cannot write to server log file log.txt Started Linux Cannot write to server log file log.txt Started 1.4 Mac HTTP Server Started It Works As expected 21/12 ✓ Linux HTTP Server Started It Works As expected 21/12 ✓ Linux HTTP Server Started As expected 21/12 ✓ Linux Unable to connect As expected 21/12 ✓ 2.1 Mac Unable to connect As expected 21/12 ✓ Linux Unable to connect As expected 21/12 ✓ 2.2 Mac HTTP Server stopped written in access log console Linux HTTP Server stopped written in access log console Linux HTTP Server stopped As expected 21/12 ✓ 3.1 Mac Response Code 200 As expected 21/12 ✓ 3.2 Mac Response Code 404 As expected 21/12 ✓ Linux Response Code 404 As expected 21/12 ✓ 3.3 Mac Response Code 404 As expected 21/12 ✓ 3.4 Linux Response Code 403 As expected 21/12 ✓ 3.5 Mac Response Code 400 As expected 21/12 ✓ 3.6 Mac Response Code 400 As expected 21/12 ✓ 3.7 Mac Response Code 400 As expected 21/12 ✓ 3.8 Mac Response Code 400 As expected 21/12 ✓ 3.9 Mac Response Code 400 As expected 21/12 ✓ 3.1 Mac Response Code 400 As expected 21/12 ✓ 3.2 Mac Response Code 400 As expected 21/12 ✓ 3.3 Mac Response Code 400 As expected 21/12 ✓ 3.4 Mac Response Code 400 As expected 21/12 ✓ 3.5 Mac Response Code 400 As expected 21/12 ✓ 3.6 Mac Response Code 400 As expected 21/12 ✓ 3.7 Mac Response Code 400 As expected 21/12 ✓ 3.8 Mac Response Code 400 As expected 21/12 ✓ 3.9 Mac Response Code 400 As expected 21/12 ✓ 3.1 Mac Response Code 400 As expected 21/12 ✓ 3.2 Mac Response Code 400 As expected 21/12 ✓ 3.3 Mac Response Code 400 As expected 21/12 ✓ 3.4 Mac Response Code 400 As expected 21/12 ✓ 3.5 Mac Response Code 400 As expected 21/12 ✓ 3.6 Mac Response Code 400 As expected 21/12 ✓ 3.7 Mac Response Code 400 As expected 21/12 ✓ 3.8 Mac Response Code 400 As expected 21/12 ✓ 3.9 Mac Response Code 400 As expected 21/12 ✓ 3.1 Mac Response Code 400 As expected 21/12 ✓ | 1.2 | Mac | No access to folder | HTTP Server | 21/12 | X |
| 1.3 Mac Cannot write to server log file log.txt Started | 1.2 | | /var/root/ | Started | | |
| 1.3 Mac Cannot write to server log file log.txt Started Linux Cannot write to server HTTP Server 21/12 X | | Linux | No access too folder | HTTP Server | 21/12 | Х |
| Linux Cannot write to server HTTP Server 21/12 X | | | /root/ | Started | | |
| Linux Cannot write to server HTTP Server 21/12 X | 1.2 | Mac | Cannot write to server | Cannot write to server HTTP Server 2 | | Х |
| log file log.txt Started | 1.3 | | log file log.txt | Started | | |
| Mac | | Linux | Cannot write to server | HTTP Server | 21/12 | Х |
| It Works | | | log file log.txt | Started | | |
| Linux HTTP Server Started It Works As expected 21/12 \(\sqrt{Linux} \) 2.1 | 1.4 | Mac | HTTP Server Started | As expected | 21/12 | 1 |
| Linux HTTP Server Started It Works As expected 21/12 \$\sqrt{2}\$ 2.1 | 1.4 | | It Works | As expected | 21/12 | 1 |
| 2.1 Mac Unable to connect As expected 21/12 | | Linux | HTTP Server Started | As expected | 21/12 | 1 |
| Linux Unable to connect As expected 21/12 \(\sqrt{2} \) Mac HTTP Server stopped written in access log console Linux HTTP Server stopped written in access log console Linux HTTP Server stopped written in access log console 3.1 Mac Response Code 200 As expected 21/12 \(\sqrt{2} \) Linux Response Code 200 As expected 21/12 \(\sqrt{2} \) 3.2 Mac Response Code 404 As expected 21/12 \(\sqrt{2} \) Linux Response Code 404 As expected 21/12 \(\sqrt{2} \) 3.3 Mac Response Code 403 As expected 21/12 \(\sqrt{2} \) Linux Response Code 403 As expected 21/12 \(\sqrt{2} \) 3.4 Mac Response Code 400 As expected 21/12 \(\sqrt{2} \) Linux Response Code 400 As expected 21/12 \(\sqrt{2} \) 4.1 Mac Response time <2000 127 ms 21/12 \(\sqrt{2} \) Linux Response time <2000 87 ms 21/12 \(\sqrt{2} \) 5.1 Mac Clientthread <nr> Mac Clientthread <nr> Linux Clientthread <nr> Only written in 21/12 \(\sqrt{2} \)</nr></nr></nr> | | | It Works | As expected | 21/12 | 1 |
| As expected 21/12 Mac HTTP Server stopped written in access log console Linux HTTP Server stopped written in access log console Linux HTTP Server stopped written in access log console 3.1 Mac Response Code 200 Linux Response Code 200 As expected 21/12 Linux Response Code 404 As expected 21/12 Mac Response Code 404 Linux Response Code 404 As expected 21/12 3.2 Mac Response Code 404 As expected 21/12 3.3 Mac Response Code 403 Linux Response Code 403 As expected 21/12 Linux Response Code 400 As expected 21/12 3.4 Mac Response Code 400 As expected 21/12 4.1 Mac Response Code 400 As expected 21/12 And Response Code 400 As expected 21/12 And Response Code 400 As expected 21/12 Mac Response time <2000 127 ms 1/12 4.1 Mac Response time <2000 127 ms 1/12 Mac Response time <2000 120 And Clientthread <nr> Linux Response time <2000 Linux Response time <2000 Linux Response time <2000 Sonly written in 21/12 Linux Clientthread <nr> Conly written in 21/12 And Clientthread <nr> Conly written in 21/12 And Clientthread <nr> Conly written in 21/12 And Clientthread <nr> Conly written in 21/12 And Clientthread <nr> Conly written in 21/12 And Clientthread <nr> Conly written in 21/12 And Clientthread <nr> Conly written in 21/12 And Clientthread <nr> Conly written in 21/12 And Clientthread <nr> Conly written in 21/12 And Clientthread <nr> Conly written in 21/12 And Clientthread <nr> Conly written in 21/12 And Clientthread <nr> Conly written in 21/12 And Clientthread <nr> Conly written in 21/12 And Clientthread <nr> Conly written in 21/12 And Clientthread <nr> Conly written in 21/12 And Clientthread <nr> Conly written in 21/12 And Clientthread <nr> Conly written in 21/12 And Clienthread <nr> Conly written in 21/12 And Clienthread <nr< td=""><td>2.1</td><td>Mac</td><td>Unable to connect</td><td>As expected</td><td>21/12</td><td>1</td></nr<></nr></nr></nr></nr></nr></nr></nr></nr></nr></nr></nr></nr></nr></nr></nr></nr></nr></nr></nr> | 2.1 | Mac | Unable to connect | As expected | 21/12 | 1 |
| Linux HTTP Server stopped only written in 21/12 written in access log console 3.1 | 2.1 | Linux | Unable to connect | As expected | 21/12 | 1 |
| Linux HTTP Server stopped written in access log console Linux HTTP Server stopped written in access log console | 2.2 | Mac | HTTP Server stopped | Only written in | 21/12 | X |
| written in access log console 3.1 | 2.2 | | written in access log | console | | |
| 3.1 Mac Response Code 200 As expected 21/12 ✓ Linux Response Code 200 As expected 21/12 ✓ 3.2 Mac Response Code 404 As expected 21/12 ✓ Linux Response Code 404 As expected 21/12 ✓ 3.3 Mac Response Code 403 As expected 21/12 ✓ Linux Response Code 403 As expected 21/12 ✓ Linux Response Code 400 As expected 21/12 ✓ 3.4 Mac Response Code 400 As expected 21/12 ✓ Linux Response Code 400 As expected 21/12 ✓ 4.1 Mac Response time <2000 127 ms 21/12 ✓ Linux Response time <2000 87 ms 21/12 ✓ 5.1 Mac Clientthread <nr> Mac Response time <2000 Sonly written in 21/12 X served file: works.png console Linux Clientthread <nr> Only written in 21/12 X</nr></nr> | | Linux | HTTP Server stopped | Only written in | 21/12 | X |
| Linux Response Code 200 As expected 21/12 \(\sqrt{2} \) 3.2 Mac Response Code 404 As expected 21/12 \(\sqrt{2} \) Linux Response Code 404 As expected 21/12 \(\sqrt{2} \) 3.3 Mac Response Code 403 As expected 21/12 \(\sqrt{2} \) Linux Response Code 403 As expected 21/12 \(\sqrt{2} \) Linux Response Code 400 As expected 21/12 \(\sqrt{2} \) 3.4 Mac Response Code 400 As expected 21/12 \(\sqrt{2} \) Linux Response Code 400 As expected 21/12 \(\sqrt{2} \) Linux Response time <2000 127 ms 21/12 \(\sqrt{2} \) 4.1 Mac Response time <2000 87 ms 21/12 \(\sqrt{2} \) Linux Response time <2000 87 ms 21/12 \(\sqrt{2} \) 5.1 Mac Clientthread <nr> Linux Clientthread <nr> Conly written in 21/12 \(\sqrt{2} \)</nr></nr> | | | written in access log | console | | |
| Simple Color Col | 2.1 | Mac | Response Code 200 | As expected | 21/12 | 1 |
| Linux Response Code 404 As expected 21/12 3.3 Mac Response Code 403 As expected 21/12 Linux Response Code 403 As expected 21/12 3.4 Mac Response Code 400 As expected 21/12 Linux Response Code 400 As expected 21/12 Linux Response Code 400 As expected 21/12 4.1 Mac Response time <2000 127 ms 21/12 Linux Response time <2000 87 ms 21/12 5.1 Mac Clientthread <nr> Mac Clientthread <nr> Linux Clientthread <nr> Only written in 21/12 X</nr></nr></nr> | 3.1 | Linux | Response Code 200 | As expected | 21/12 | 1 |
| 3.3 Mac Response Code 404 As expected 21/12 \(\sqrt{2} \) Linux Response Code 403 As expected 21/12 \(\sqrt{2} \) Linux Response Code 403 As expected 21/12 \(\sqrt{2} \) 3.4 Mac Response Code 400 As expected 21/12 \(\sqrt{2} \) Linux Response Code 400 As expected 21/12 \(\sqrt{2} \) Linux Response Code 400 As expected 21/12 \(\sqrt{2} \) 4.1 Mac Response time <2000 127 ms 21/12 \(\sqrt{2} \) Linux Response time <2000 87 ms 21/12 \(\sqrt{2} \) 5.1 Mac Clientthread <nr> Mac Clientthread <nr> Linux Clientthread <nr> Only written in 21/12 \(\sqrt{2} \)</nr></nr></nr> | 2.2 | Mac | Response Code 404 | As expected | 21/12 | 1 |
| Linux Response Code 403 As expected 21/12 3.4 Mac Response Code 400 As expected 21/12 Linux Response Code 400 As expected 21/12 4.1 Mac Response time <2000 127 ms 21/12 Linux Response time <2000 87 ms 21/12 Linux Response time <2000 87 ms 21/12 5.1 Mac Clientthread <nr> Served file: works.png console Linux Clientthread <nr> Only written in 21/12 X</nr></nr> | 3.2 | Linux | Response Code 404 | As expected | 21/12 | 1 |
| As expected 21/12 ✓ 3.4 Mac Response Code 400 As expected 21/12 ✓ Linux Response Code 400 As expected 21/12 ✓ Linux Response Code 400 As expected 21/12 ✓ 4.1 Mac Response time <2000 127 ms 21/12 ✓ Linux Response time <2000 87 ms 21/12 ✓ Served file: works.png console Code 400 As expected 21/12 ✓ Linux Response time <2000 127 ms 21/12 ✓ Clientthread <nr> Linux Clientthread <nr> Only written in 21/12 X</nr></nr> | 2.2 | Mac | Response Code 403 | As expected | 21/12 | 1 |
| Linux Response Code 400 As expected 21/12 \(\sqrt{4.1} \) 4.1 Mac Response time <2000 127 ms 21/12 \(\sqrt{4.1} \) Linux Response time <2000 87 ms 21/12 \(\sqrt{4.1} \) Mac Clientthread <nr> Served file: works.png console Linux Clientthread <nr> Clientthread <nr> Only written in 21/12 \(\sqrt{4.1} \)</nr></nr></nr> | 3.3 | Linux | Response Code 403 | As expected | 21/12 | 1 |
| As expected 21/12 Mac Response time <2000 127 ms 21/12 Linux Response time <2000 87 ms 21/12 Linux Response time <2000 87 ms 21/12 Mac Clientthread <nr> 5.1 Mac Clientthread <nr></nr></nr> | 2.4 | Mac | Response Code 400 | As expected | 21/12 | 1 |
| Linux Response time <2000 87 ms 21/12 ✓ Mac Clientthread <nr> Served file: works.png console Linux Clientthread <nr> Clientthread <nr> Only written in 21/12 X</nr></nr></nr> | 3.4 | Linux | Response Code 400 | As expected | 21/12 | 1 |
| 5.1 Response time <2000 87 ms 21/12 7 Mac Clientthread <nr></nr> | 4.1 | Mac | Response time <2000 | 127 ms | 21/12 | 1 |
| served file: works.png console Linux Clientthread <nr></nr> | 4.1 | Linux | Response time <2000 | 87 ms | 21/12 | 1 |
| Linux Clientthread <nr></nr> | 5 1 | Mac | Clientthread <nr></nr> | Only written in | 21/12 | Х |
| Linux Clientthread <nr> Only written in 21/12 X</nr> | 3.1 | | served file : works.png | console | | |
| | | Linux | | Only written in | 21/12 | X |
| | | | served file : works.png | | | |

| Test Case | OS | Expected Output | Actual Output | Date | Pass |
|-----------|----------------|--------------------|--------------------|-------|----------|
| 6.1 | Mac | Enter a valid port | As expected | 21/12 | ✓ |
| 0.1 | | 1-65 535 and a | | | |
| | | optional URL | | | |
| | Linux | Enter a valid port | As expected | 21/12 | ✓ |
| | | 1-65 535 and a | | | |
| | | optional URL | | | |
| 6.2 | Mac | See fig. 1 | Enter a valid port | 21/12 | X |
| 0.2 | | | 1-65 535 and a | | |
| | | | optional URL | | |
| | Linux | See fig. 1 | Enter a valid port | 21/12 | X |
| | | | 1-65 535 and a | | |
| | | | optional URL | | |
| 7.1 | Mac | It Works | Safari could not | 21/12 | X |
| /.1 | | | open page | | |
| | Linux It Works | | Secure connection | 21/12 | X |
| | | | failed | | |
| 7.2 | Mac | Response Code 405 | As expected | 21/12 | ✓ |
| 1.2 | Linux | Response Code 405 | As expected | 21/12 | √ |

MyWebServer

To start the server enter java -jar MyWebServer.jar <Port> <Shared Resource>

The Port need to be 1-65 535 and unused

The user who starts the server needs to have read-access to the shared resource

Licence: GPL-2.0

2017 Software Development Company (SDC)

Figure 1: Help screen