

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. However, to avoid release complications the server should be distributed with *OpenJDK* which is licensed under GPL-2.0. 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. 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.

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

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	Х
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	X
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	HTTP Server	21/12	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 120 121 Mac Clientthread <nr> Linux Response time <2000 Linux Response time <2000 120 121 Mac Clientthread <nr> Clientthread <nr> Clientthread <nr> Conly written in 21/12 And Clientthread <nr> Clientthread <nr> Conly written in 21/12 Mac Clientthread <nr> Clientthread <nr> Conly written in 21/12 And Clientthread <nr> Clientthread <nr> Conly written in 21/12 And Clientthread <nr> Conly written in 21/12 Mac Clientthread <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></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 \(\sqrt{2} \) 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>			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> Clientthread <nr> Only written in 21/12 X</nr></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