

# Test Report

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## UC1 Start Server

Test Case	Expected Result	Actual Result	Status	Date
T1.1: Server Start	Server starts/ and log file is created	Server started but no log file was created	Fail	2017-12-14
T1.2: Unavailable Port	"Port is taken" Error	"Port is taken" Error	Pass	2017-12-14
T1.3: Shared resource	"Enter a valid Port" Error	"Enter a valid port" Error	Pass	2017-12-15
T1.4: Incorrect Socket	"Enter a valid Port" Error	"Enter a valid port" Error	Pass	2017-12-15
T1.5: incorrect shared resource	Server starts with "404 Not Found" Error	Server started with "404 Not Found" Error	Pass	2017-12-16
T1.6: Protected shared resources	Error "No access to folder XX"	Server starts up	Fail	2017-12-16
T1.7: Writing to txt file	Error "Cannot write to server log file txt"	Log file created	Fail	2017-12-16

## UC2 Stop Server

Test Case	Expected Result	Actual Result	Status	Date
T2.1: Stopping Server	Server Stops/ Note in log that server stopped	Server stopped but no access log	Fail	2017-12-16
T2.2: Using "STOP"	Server should not stop	Server did not stop	Pass	2017-12-16

## UC3 Request Shared Resource

Test Case	Expected Result	Actual Result	Status	Date
T3.1: Response 200 OK	Response code 200 "OK" and kept in access log	Response code 200 returned/ no access log	Fail	2017-12-17
T3.2: Response 400 Bad Request	Response code 400 "Bad Request" and kept in access log	Response code 400 returned "Not Found"/ no access log	Fail	2017-12-17
T3.3: Response 403 Forbidden	Response code 403 "Forbidden" and kept in access log	Response code 400 returned/ no access log	Fail	2017-12-18
T3.4: Response 404 Not Found	Response code 404 "Not Found" and kept in access log	Response code 404 returned "Not Found"/ no access log	Fail	2017-12-18
T3.5: Response 500 Internal Server Error	Response code 500 "Internal Server Error" and kept in access log	Response code 500 returned / no access log	Fail	2017-12-19

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## Load and Performance Testing

Test Case	Expected Result	Actual Result	Status	Date
T4.1: Response under high load	Code 200 and less than 2 sec response time	Response code 200, 1.2 sec response time	Pass	2017-12-19

## Security Testing

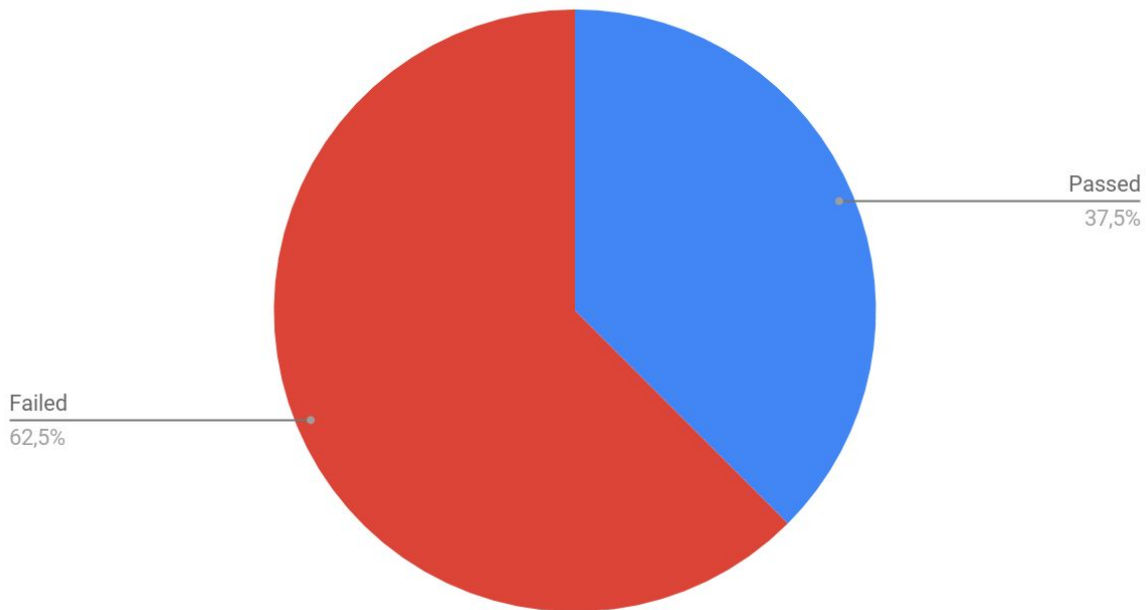
Test Case	Expected Result	Actual Result	Status	Date
T5.1: Testing server with https	Server runs on https	Server only runs in http	Fail	2017-12-20

## Requirements Traceability Matrix

Requirements		R1	R2	R3	R5	Extra
Test Cases	Total	1	6	13	1	1
T1.1				X		
T1.2				X		
T1.3				X		
T1.4				X		
T1.5				X		
T1.6				X		
T1.7					X	
T2.1				X		
T2.2				X		
T3.1			X	X		
T3.2			X	X		
T3.3			X	X		
T3.4			X	X		
T3.5			X	X		
T4.1		X	X			
T5.1						X

Test Cases Planned	Test Cases Executed	Passed	Failed
16	16	6	10

## Test Cases



R4: "The source code should be released under GPL 2.0" is not tested. Since MyWebServer has an MIT license which is compatible with many many copyleft licenses including the GPL 2.0, it only puts very limited restrictions. When it comes to release MyWebServer should be Open Sourced in which the recipient have the same right as the relaser. This makes MyWebServer compatible with GPL 2.0.