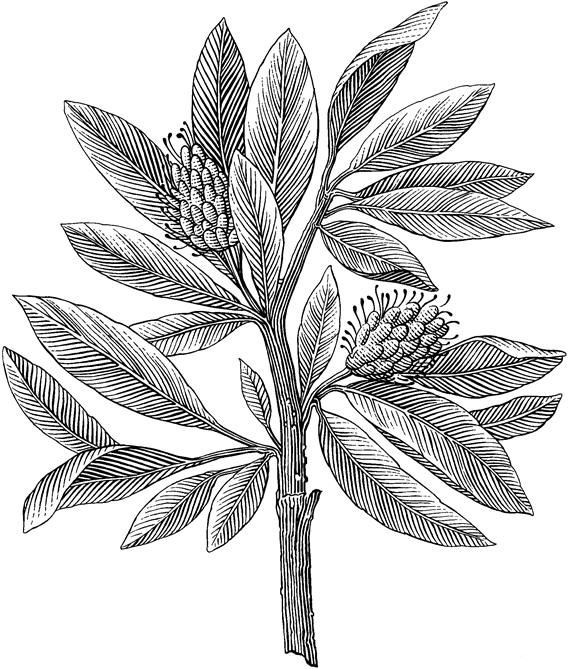
Test case

*For “My web server”*

*Supervisor:* Daniel Toll

*Semester:* Spring 2018

*Course code:* 2DV610



**Start Server**

Test Case ID: 1

Description: in order to test open the website ”localhost:1091”

Pre-conditions:

Post-conditions:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Step | Test Steps | Expected Result | Actual Result | Status(Pass/Fail) | Notes |
| 1 | System asks for socket port number(1091) and shared resource container |  |  |  |  |
| 2 | The administrator provides a socket port number and a shared resource container |  |  |  |  |
| 3 | open website ”localhost:1091” | successful open | successful open | Mac: pass  Windows: pass |  |

**Access Log written when server started**

Test Case ID: 2

Description: when a request with information sent to the server, access logs will written Pre-conditions: The web server has been started

Post-conditions:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Step | Test Steps | Expected Result | Actual Result | Status(Pass/Fail) | Notes |
| 1. | Access the shared resource | The message was successfully written to the access log | Access log no record | Mac: Fail  Windows: Fail |  |

**Stop Server**

Test Case ID: 3

Description: test stop server

Pre-conditions: The web server has been started

Post-conditions:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Step | Test Steps | Expected Result | Actual Result | Status(Pass/Fail) | Notes |
| 1 | input “stop” into to console/address line | the server stop | the server stop | Mac: partly pass  Windows: partly pass |  |

**Access Log written when server was stopped**

Test Case ID: 4

Description: A note in the access log was written, that the server was stopped

Pre-conditions: The web server has been started

Post-conditions:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Step | Test Steps | Expected Result | Actual Result | Status(Pass/Fail) | Notes |
| 1 | input “stop” into to console |  |  |  |  |
| 2 | open “access log” | A note in the access log was written | fail to document | Mac: Fail  Windows: Fail |  |

**Access Log viewable from a text editor**

Test Case ID: 5

Description: open access log using text editor

Pre-conditions: The web server has been started

Post-conditions:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Step | Test Steps | Expected Result | Actual Result | Status(Pass/Fail) | Notes |
| 1. | open access log using text editor | successful open | Fail | Mac: Fail  Windows: Fail |  |

**HTTP 1.1 Status 200**

Test Case ID: 6

Description: The web server are able to send a response with status 200.

Pre-conditions: The web server has been started, download and open JMeter

Post-conditions:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Step | Test Steps | Expected Result | Actual Result | Status(Pass/Fail) | Notes |
| 1 | Input server name and port name at JMeter |  |  |  |  |
| 2 | Save and run test | sample result will return 200 OK | return 200 OK | Mac: Pass  Windows: Pass |  |

**HTTP 1.1 Status 404**

Test Case ID: 7

Description: The web server are able to send a response with status 404.

Pre-conditions: The web server has been started, download and open JMeter

Post-conditions:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Step | Test Steps | Expected Result | Actual Result | Status(Pass/Fail) | Notes |
| 1 | Input server name and port name at JMeter |  |  |  |  |
| 2 | Input HTTP request Get: ”text.txt” |  |  |  |  |
| 3 | Save and run test | sample result will return 404 NOT FOUND | return 404 NOT FOUND | Mac: Pass  Windows: Pass |  |

**HTTP 1.1 Status 403**

Test Case ID: 8

Description: The web server are able to send a response with status 403.

Pre-conditions: The web server has been started, download and open JMeter

Post-conditions:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Step | Test Steps | Expected Result | Actual Result | Status(Pass/Fail) | Notes |
| 1 | Input server name and port name at JMeter |  |  |  |  |
| 2 | Input HTTP request Get: ”../secret.html” |  |  |  |  |
| 3 | Save and run test | sample result will return 403 Forbidden | return 403 Forbidden | Mac: Pass  Windows: Pass |  |

**HTTP 1.1 Status 400**

Test Case ID: 9

Description: The web server are able to send a response with status 400.

Pre-conditions: The web server has been started, download and open JMeter

Post-conditions:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Step | Test Steps | Expected Result | Actual Result | Status(Pass/Fail) | Notes |
| 1 | Input server name and port name at JMeter |  |  |  |  |
| 2 | Input HTTP request Get: ”%” |  |  |  |  |
| 3 | Save and run test | sample result will return 400 Bad request | Non HTTP response code: java.net.URISyntaxException | Mac: Fail  Windows: Fail |  |

**Load Test**

Test Case ID: 10

Description: check response under high load

Pre-conditions: The web server has been started, download and open JMeter

Post-conditions:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Step | Test Steps | Expected Result | Actual Result | Status(Pass/Fail) | Notes |
| 1 | Input server name and port name at JMeter |  |  |  |  |
| 2 | set samples to 2500/2000/1100, 2 seconds |  |  |  |  |
| 3 | save and run | get 0% error | 2500: get error  2000: get error  1100: 0.00% error | Mac: partly pass  Windows: partly pass |  |

**Stress Test**

Test Case ID: 11

Description: check if web server can work on high load

Pre-conditions: The web server has been started, download and open JMeter

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Step | Test Steps | Expected Result | Actual Result | Status(Pass/Fail) | Notes |
| 1 | Input server name and port name at JMeter |  |  |  |  |
| 2 | set loop for 100, set samples to 1200/900, 2 seconds |  |  |  |  |
| 3 | save and run | get 0% error | 1200: get error  900: 0% error | Mac: partly pass  Windows: partly pass |  |