



Report

Test Cases



December 18, 2017

Author:

Caroline Nilsson (*cn222nd*)

Daniel Alm Grundström (*dg222dw*)

Term: HT 2017

Course: 2DV610 - Software Testing

Contents

1	Use Case: Start Server	1
1.1	Unavailable socket	1
1.1.1	Input	1
1.1.2	Output	1
1.2	Starting Server	1
1.2.1	Input	1
1.2.2	Output	2
2	Use Case: Stop Server	2
2.1	Stopping Server	2
2.1.1	Input	2
2.1.2	Output	2
2.2	Access log written to when server is stopped	3
2.2.1	Input	3
2.2.2	Output	3

1 Use Case: Start Server

1.1 Unavailable socket

The system shall notify the administrator if the provided port socket is unavailable.

Test Input

Port socket: 80 *incorrect*

Shared resource: MyWebServer-master 12.15.02/tests/se/lnu/http/resources/inner/
correct

1.1.1 Input

- Navigate to the .jar file location
- input "java -jar MyWebServer.jar
80 MyWebServer-master 12.15.02/tests/se/lnu/http/resources/inner/"
- Press enter
- Open a web browser
- Enter "localhost:80"
- Press enter

1.1.2 Output

Web Browser

- Display unable to connect to the server

Console

- "Socket 80 was taken" shows in console window

1.2 Restriction on shared resource container

The system shall give an error when the shared resource container is protected.

Test Input

Port socket: 8080 *correct*

Shared resource: /var/root/ (MAC) /root/ (Linux)
incorrect

1.2.1 Input

- Navigate to the .jar file location
- input "java -jar MyWebServer.jar 8080 /var/www/"
- Press enter
- Open a web browser
- Enter "localhost:8080"
- Press enter

1.2.2 Output

Console

- "No access to /var/www/" shows in console window

1.3 Starting Server

An administrator should be able to start the server by running the .jar file and provide port socket and shared resources folder.

Test Input

Port socket: 80

Shared resource: MyWebServer-master 12.15.02/tests/se/lnu/http/resources/inner/

1.3.1 Input

- Navigate to the .jar file location
- input `java -jar MyWebServer.jar 8080 MyWebServer-master 12.15.02/tests/se/lnu/http/resources/inner/`
- Press enter key
- Open a web browser
- Enter `localhost:8080`
- Press enter

1.3.2 Output

Web Browser

- "It works" is shown on the page (*see figure: 1*)

Console

- "HTTP Server Started" is shown in console window

2 Use Case: Stop Server

2.1 Stopping Server

An administrator should be able to stop the server by inputting "stop" into a running server's command line.

2.1.1 Input

- Web server is running on port 8080
- Input "stop" into the server's command line window and press Enter
- Open a web browser and navigate to `http://localhost:8080/`

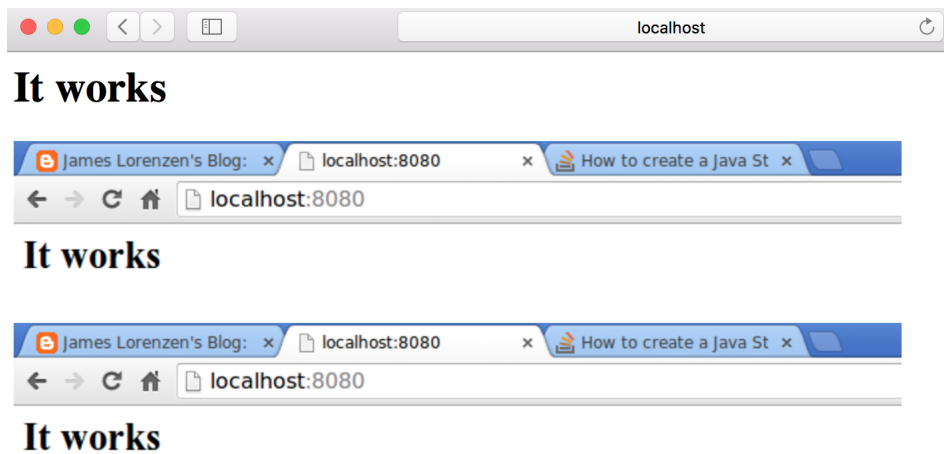


Figure 1: Output for successfully starting server

2.1.2 Output

- A page with the header "Unable to connect" should appear in the web browser.

2.2 Access log written to when server is stopped

Make sure that an entry is written to the server's access log when an administrator manually stops the server.

2.2.1 Input

- Web server is running
- Input "stop" into command line window and press Enter
- Open sever access log in a text editor

2.2.2 Output

- The text "HTTP Server stopped" should be displayed on the last line of the access log.