

Test Cases

Test case 1.1: Server fail caused by taken socket

Make sure server start up is not possible with a taken socket.

Inputs:

- Input taken socket

Outputs:

- The text "Socket XX was taken" (XX is the socket number, Example "80") is shown.
- Exits use case

Test case 1.2: Server fails due to restriction on the shared resource container

Make sure server start up is not possible with no file path.

Inputs:

- Leaving file path empty

Outputs:

- The text "No access to folder XX" (XX is the shared resource container provided, Example "\var\www") is shown.

Test case 1.3: successful server starts

Make sure the server is runnable.

Inputs:

- Correct socket and resource container input

Outputs:

- The text "Server is started" is shown.
- System starts the sever and writes access logs

Test case 1.4: successful server stop

Making sure the server turns off when user wants it.

Inputs:

- Test case 1.3
- Write “stop” in terminal and press Enter to stop

Outputs:

- The text “Server stopped” is shown
- Server stops running

Test case 1.5: Request shared resource

Make sure the system logs the success message and gives the requested resource.

Inputs:

- Test case 1.3
- Send HTTP Request get: /index.html to execute test

Output:

- Server responds with status code 200

Test case 1.6: fail source delivery caused by missing source

Make sure the system gives back a "404 NOT FOUND" message.

Input:

- Test case 1.3
- Resource field empty

Output:

- The text “404 NOT FOUND” is shown

Test case 1.7: Resource is outside the shared container

Makes sure nothing is reachable outside of the given container and the message “403 FORBIDDEN” is shown.

Input:

- Test case 1.3
- Resource that is forbidden

Output:

- Puts out an error message HTTP status code 403 (FORBIDDEN)

Test case 1.8: Invalid or malformed resource request

HTTP status code “405 METHOD NOT SUPPORTED” must be shown.

Inputs:

- Test case 1.3
- Send HTTP Request POST: /index.html to execute test

Outputs:

- Error message “405 METHOD NOT SUPPORTED” is shown

Test case 1.9: Internal error while request process

HTTP status code “500 INTERNAL SERVER ERROR”.

Input:

- Test case 1.3
- Send request to the servers URL, causing an error in processing time.

Output:

- Error message “500 INTERNAL SERVER ERROR” is shown.

