CS425 - Computer Networks

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Project - 2

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Date: 31st August, 2016 Browser Used: Google Chrome

How to run

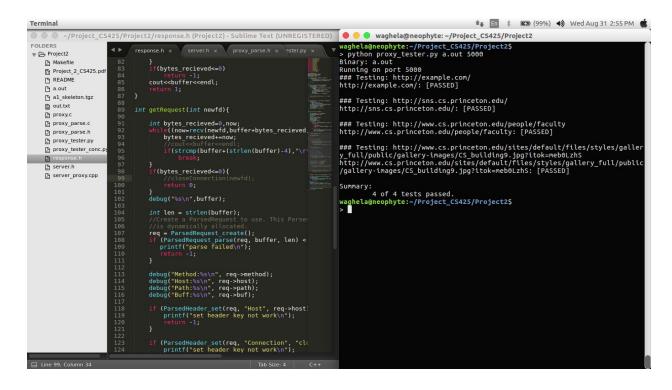
- > Make all
- > ./proxy PortNumber
- > python proxy_tester.py proxy {port number optional}

Design Choices made:

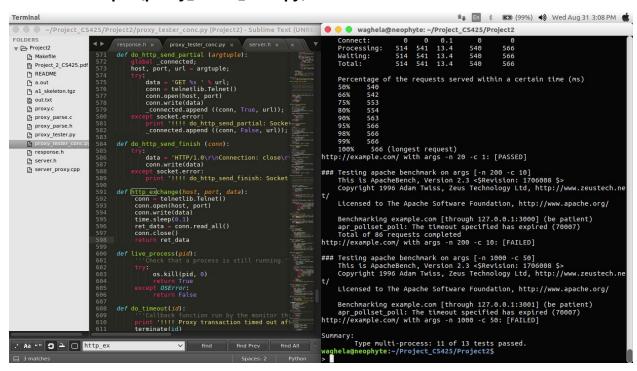
- 1. Request length is less than 4096 bytes.
- 2. Server should be given no more than 20 simultaneous/ parallel requests.
- 3. All parsing error and buffer overflows are replied with "500 Internal Server Error".
- 4. The server reads a request until there is something to read and then quits if request end is observed([CLRF][CLRF]) else waits for a fixed amount of time before quitting.

Testing Results

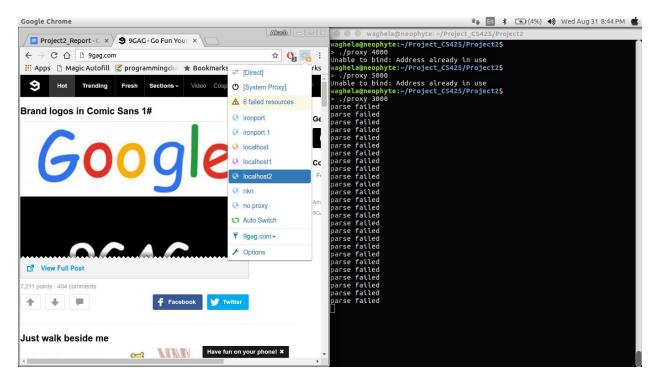
OutPut of Script1 (proxy_tester.py)



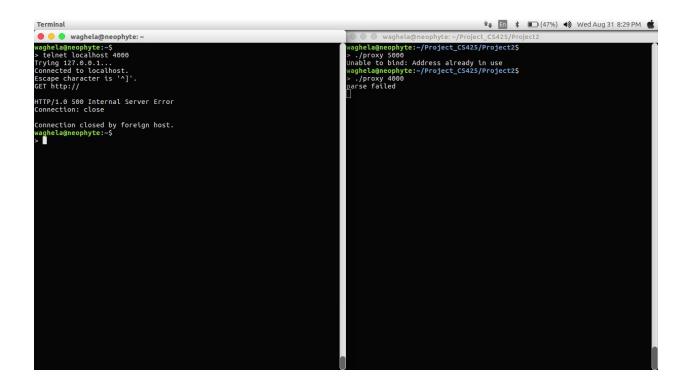
OutPut of Script2 (proxy_tester_conc.py)



3. Browser Response



4. Malformed Request



Explanation of Testing Results

1. Script1

O I added an extra wait in the script to pass the last test case, as it was immediately trying to get response.

2. Script2

- O 11/13 test cases passed, 1 of which was the 4th one, I did not add any wait in this script hence got failed.
- O The other was apache benchmark, it did not passed due to slow connection at hostel network and yield connection timeout, works fine on CSE network.

3. Browser Response

O A request to 9gag.com was sent on port 3000 which processed successfully (localhost2 proxy setting was server:locahost port:3000).

4. Malformed Response

O To test 500 Internal Error