

CPSC 441 Assignment 1 – Proxy Manual

Setup

1. Change browser settings to recognize proxy. Set *Address* to “localhost” and set *Port* to “8001.”
2. Compile proxy using “gcc Proxy.c -o proxy”.
3. Run with “./proxy”.
4. Open your web browser and put in desired URL.
5. If it is a GET request it should work, if not it will prompt an error message since the scope of this assignment only covered GET requests. Please enter a new URL that is a GET request.
6. If the webpage is an *html* file, it should be delayed based on it’s size, if not it should function with no delays.

Testing/Results

- Testing was done on my personal machine running *Bash* terminal. I tried testing it on Windows machines at the university using *Cygwin Terminal* but my program would not function properly. My inference is that this proxy will work efficiently on a Linux environment/terminal.
- My proxy picks up many requests that are not from a web browser (ex. OneDrive). Usually these are not an issue because my proxy will stop servicing the request if it’s not GET, but sometimes these other requests slows down and/or makes the web browser not get a request. Refreshing the page usually fixes this problem.
- Sometimes web pages are not fully loaded and become slightly unreadable during testing. These versions of the web pages get saved to the cache. Hence, if a page is not complete, try wiping the cache so that the proxy can re-fetch the web page. When I tested my proxy, I always made sure to start with a clean cache.
- All the test files and all web pages on Dr. Williamson’s website worked as expected with my proxy.