Surya Rani

Writeup asg1

1. A decent amount of time was spent for error checking as that is a big part in http to be able to accept very specific requests. It would have been better most likely if i made a function to deal with error responses instead of writing it and sending it every time. There were alot of cases to look for for the 400 error response but the other responses were self explanatory in where we needed them. The 500 request though I have no clue when it will get called i just have it after all the if else if statements. I would say about 15% of my 20 -30 hour time was spent making sure that my server works the way I want it to with errors.

2. The errors in a request message all are 400 errors for bad requests. The tests I covered where to check

1. Check if function name is either get put or head

2. Make sure file has / in front of it

3. check if file name is 27 characters or less not including the /

4. check if file name is entirely alphanumeric or has "-" or "_"

5. check each header and make sure that it is a valid header %s: %s or is Content-Length: %d

For 404 errors I just opened the file and checked errno if the file was not found or not.

For 403 forbidden errors I used stat before I even opened the file to make sure that we either had read or write permissions in get or put respectively.

500 was the last thing i checked as it was after my if else if so if there was an error but it wasnt the other three then i sent a 500.

3. After reading this question i realized it didn't do anything but now i added a 500 error response if the connection were to close abruptly.

4. I don't think we need to worry about it since we are using integral data types such as uint8_t but if we were using maybe double and transfer that between server and client then it would become more complicated I think.