

Writeup

Rishab Jain
CruzID: rjain9

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1 Testing

To test my program initially I focused on setting up my socket and being able to send and receive messages from my client. After that I focused on being able to parse the header being sent from the file and putting each word into an array/vector. Once I was able to do that I focused on doing the PUT command so I created a different function for PUT and GET and focused on solving both those problems first. Once I was confident that the main functionality of GET and PUT were working, I created my while loop so the server would be able to handle multiple requests without closing. The last thing I did was handle error messages and sending appropriate response headers in case of file errors or a server error.

To test the overall functionality of the program I would try to send large files that were greater than my buffer and try to send headers that weren't formatted correctly to test my server.

2 Early Communication Ended

If the communication is ended early during a put and the file contents are not all completely sent then the file will be created on the server side but its contents will be empty. This happens because the server is waiting to read the data from the client socket so if that socket is closed then there is nothing to read and the server will create an empty file. We did not have to worry about this without dog program because there was no client and server since it was reading and writing from the same program.

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