

- 1.) The chat client and server application as described above uses a single transport connection in each direction per client. A different design would use a transport connection per command and reply. Describe the pros and cons of these two designs.
- 2.) Describe which features of your transport protocol are a good fit to the chat client and server application, and which are not. Are the features that are not a good fit simply unnecessary, or are they problematic, and why? If problematic, how can we best deal with them?
- 3.) Read through the HTTP protocol specification covered in class. Describe which features of your transport protocol are a good fit to the web server application, and which are not. Are the features that are not a good fit simply unnecessary, or are they problematic, and why? If problematic, how can we best deal with them?
- 4.) Describe one way in which you would like to improve your design.

Answers:

- 1.) For a singular transport connection, it will allow only a single command to be sent on the line. This means only one at a time will be sent. It would be slower, however, the message will not be dropped. On the other hand, a different connection for each command would make it faster. However, it is less reliable due to ACK/SYN getting lost which means the packets will be messed up by the end or lost.
- 2.) With transport protocols, it is better if we send objects over the transport protocol so we can send more data, otherwise it only works with strings only. In order to fix it, we could write a function that parses an object to a string. After that, you can then turn it back into an object.

- 3.) Looking back at our project, we think our project could be a start to a web application, however, it needs a lot of work. It would not survive too well in the real world. But, it is able to send packets to different nodes and the main important things still work.
- 4.) To improve our design, our first thing is to fix the noise modeling system. Second, we would like to make our program more simple than what it is. Right now it is rather complicated and could prove to be stiff and not adaptable. Adding comments back in the code as well would be nice.