Report

Brief description of how my system work

1. Client procedure

- (1) Create a listening socket with certain port, used in p2p session.
- (2) When login, send the p2p port number to the server.
- (3) Read the command from console.
- (4) Verify the command, and parse the command into a command dict, then send to the server finally display the response string.

2. Server procedure

- (1) Bind the port.
- (2) Accept a client connection request. Go into the login loop first, and then go into the command processing loop to process each kinds of command

3. How to send the request command and response command by

Socket?

- (1) All the request command and response command is string.
- (2) Package all the command and its corresponding parameter into a dictionary.
- (3) Serialize the packet into byte-sequence by json.
- (4) Send the byte-sequence through socket.