Design Document
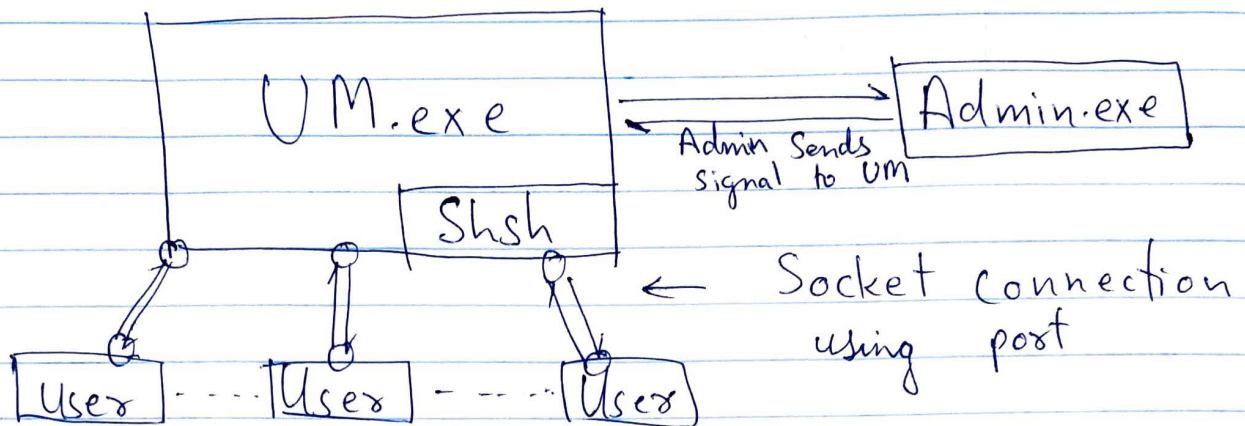

UM starts with port number and sleep time as command line input.

UM displays: "UM server socket is ready."

User starts with user id, hostname and port number as command line input. It connects with the UM.

User can process shsh commands and get the output displayed on its screen.

Admin starts with the process id of UM.exe as command line input.

Admin takes 4 different types of input and sends the corresponding signal to the UM.exe.

UM.exe receives the signal and
processes the commands accordingly.

UM.exe takes commands from users
and processes the shsh commands
and then writes the output to the
user's screen.

Admin :   terminate :   SIG QUIT
          sleep   :   SIGINT
          infor   :   SIGRT MAX
          listuser   :   SIGRTMIN

UM (Server)
    create socket.
    bind.
    listen
    accept ———→ create thread
                for each user.

                Process commands
                and send back to user.

User (Client)
    create socket.
    connect to socket of UM.