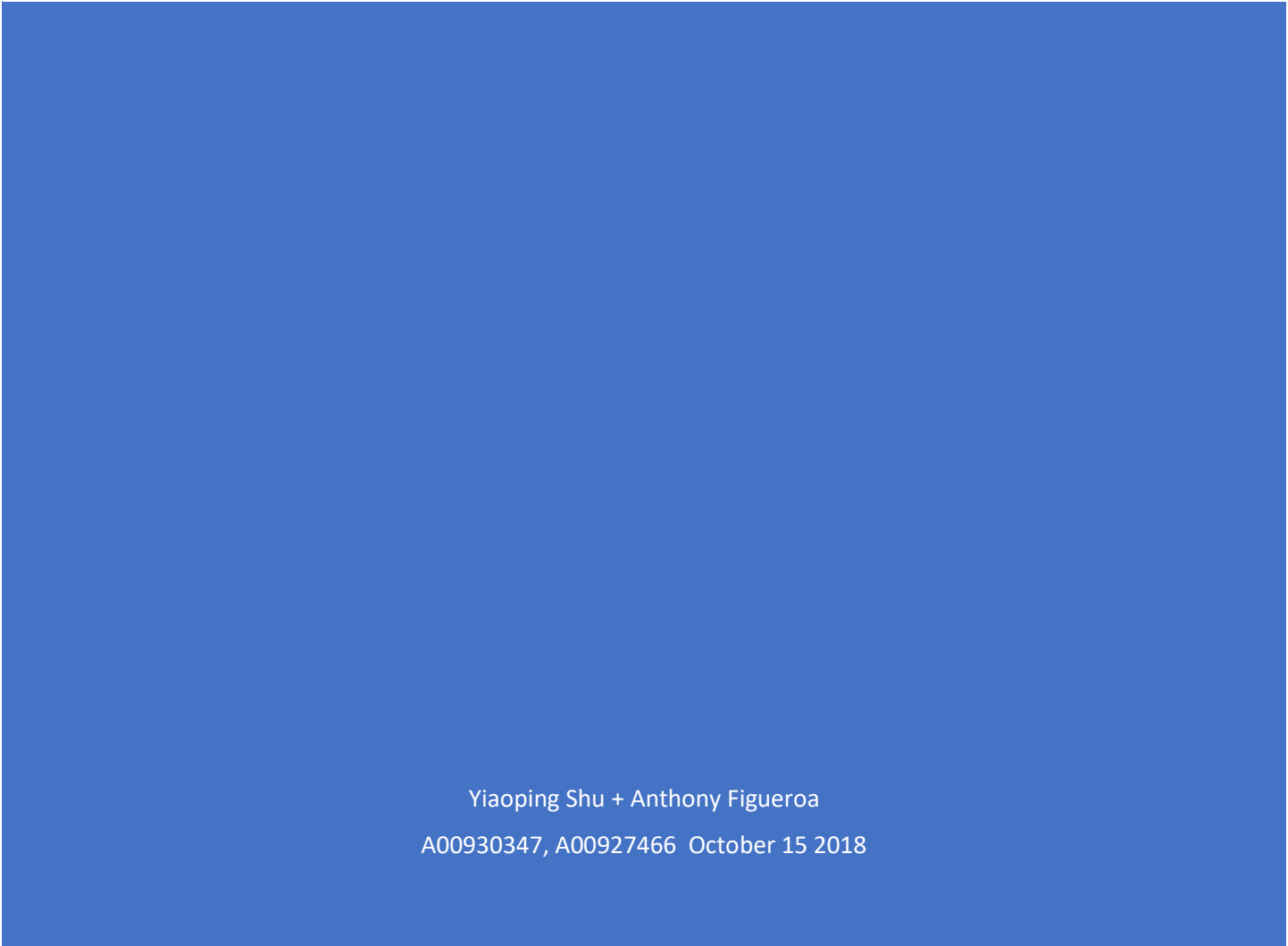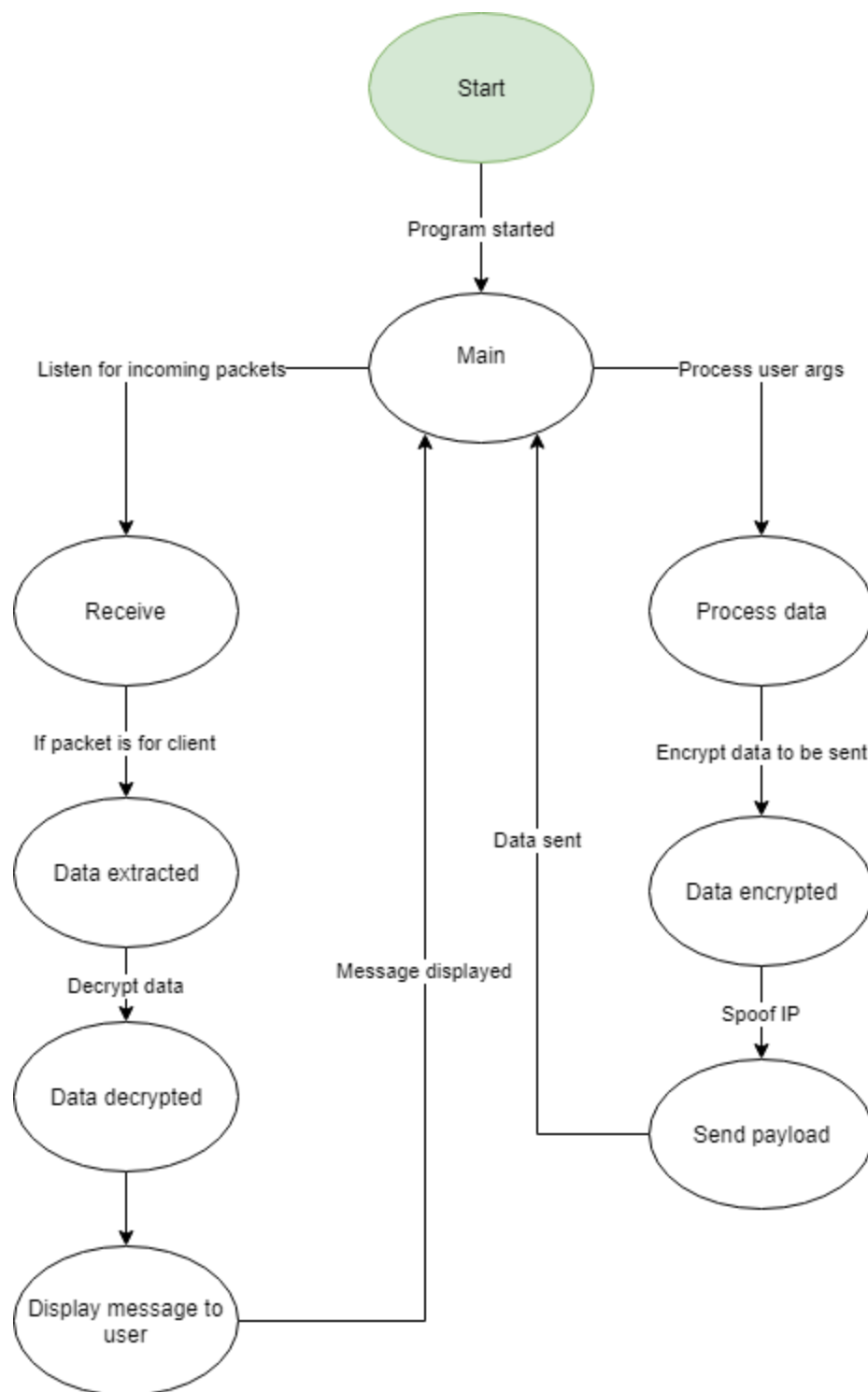# COMP 8505 ASSIGNMENT 3 DESIGN DOCUMENT

Yiaoping Shu + Anthony Figueroa

A00930347, A00927466 October 15 2018

State Diagram

Client

Start Program
  Main function
    Process and save user arguments
      While we can read in commands
        Encrypt user command and info
        Send payload to client using arguments information
    Listen for incoming packets
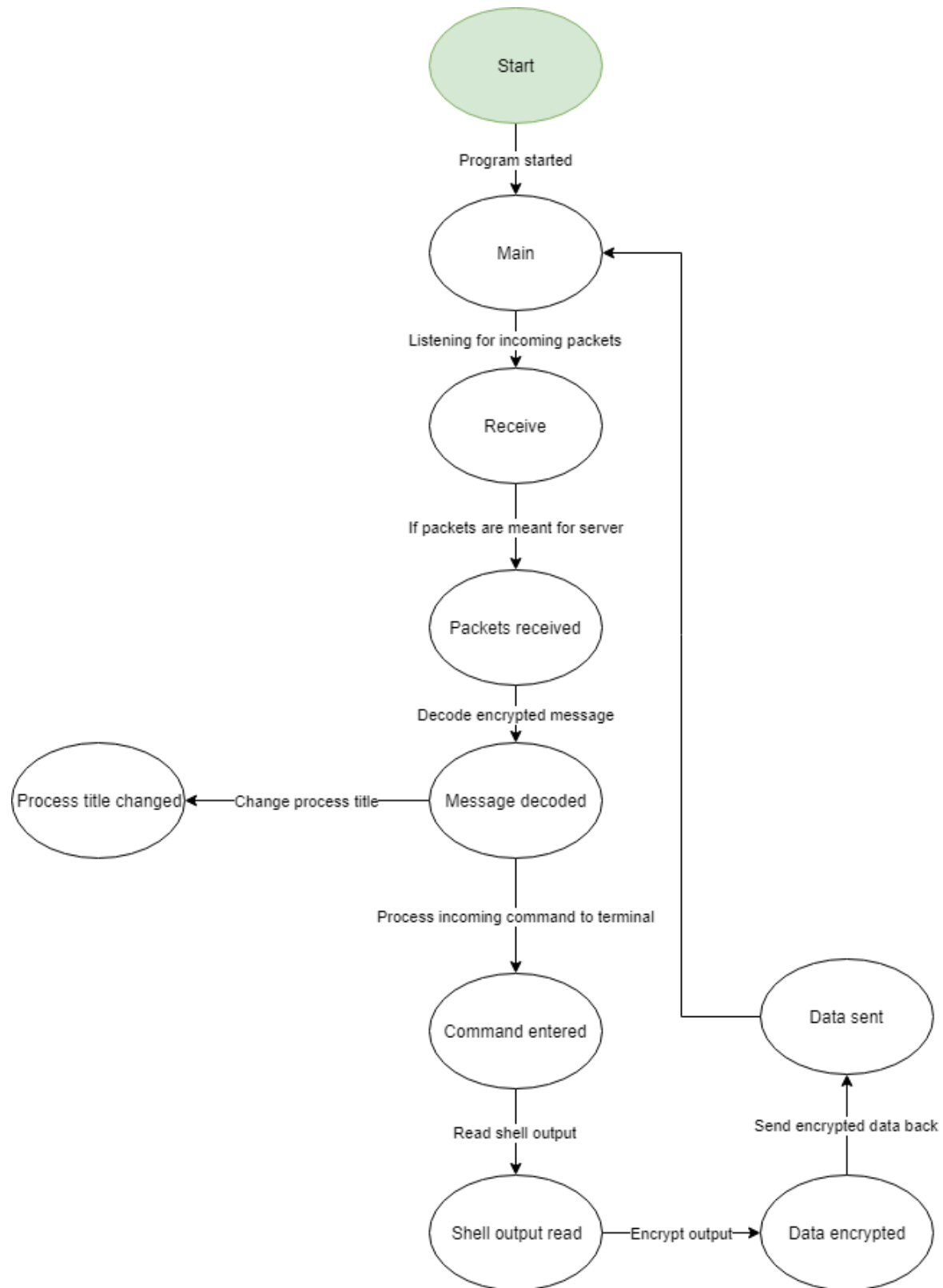   If packets coming in are meant for the client, process them
        Decrypt and read the packets coming in
        After decrypting, display the contents to user
    If user chose to exit, exit program

Server

Start Program
        Main function
                While we can listen for incoming packets
                        If a packet is received and is meant for the server, decrypt it
                        Grab the process title that user inputted from client
                                change the process name
                        Process command in terminal and read the results
                        Encrypt the results
                        Send the encrypted data back to the client