CSD2161 Assignment 3 Design Documents

Individual Contributions:

Goh Pin Kai pinkai.g@digipen.edu 2301388
- Code, Design Documents, Testing

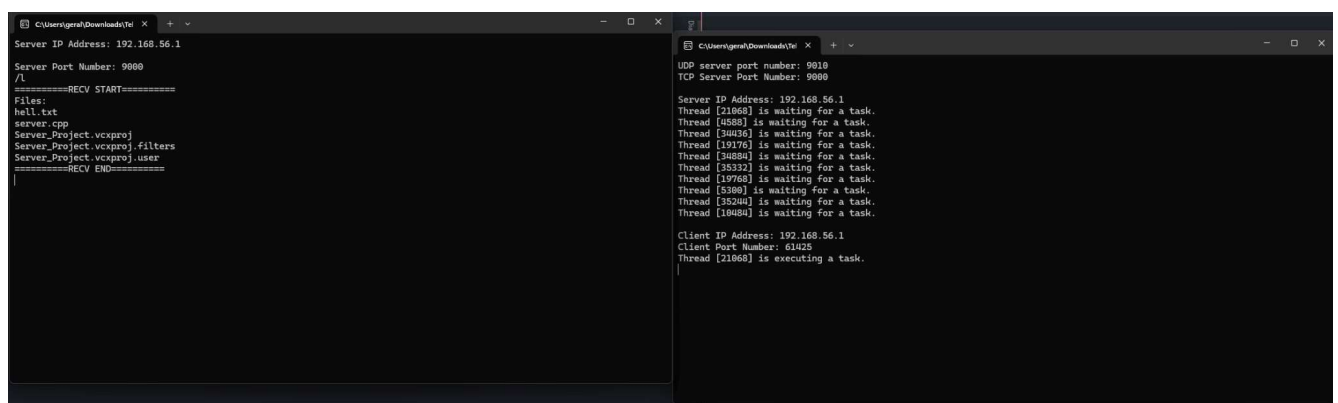Pek Jun Kai Gerald p.junkaigerald@digipen.edu 2301334
- Code, Design Documents, Testing

Design Introduction

Using winsock sockets, the client will try to connect to the server and send requests through commands. The server will reply with the desired results, whether to list all downloadable files or actually doing a file transfer through UDP. The client is able to receive a list of files that can be accessed by the server as well as quit. However sadly when we try to initiate the download, the TCP instructions sent do not contain the file name well and although we can get the file on the client side, it does not contain any content.
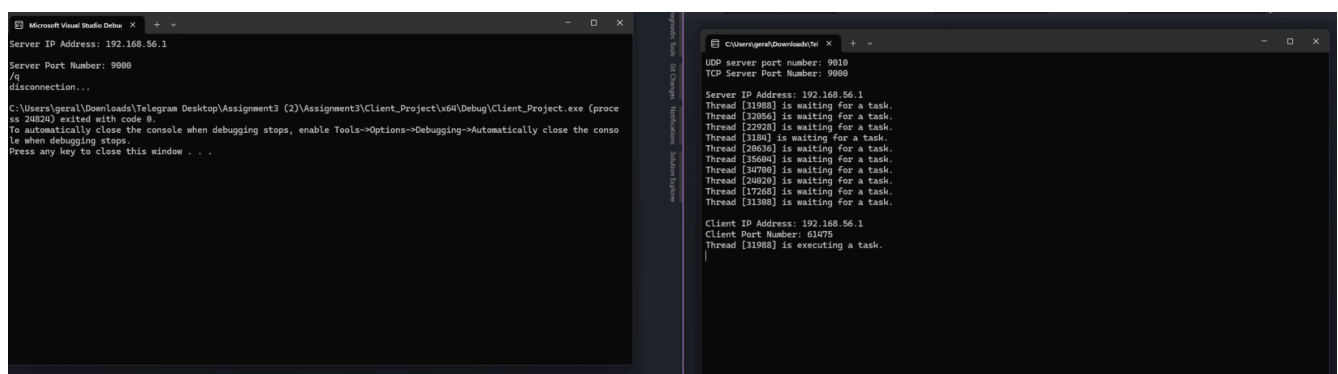
Verification

To verify the design, the program was tested with scenarios that will be depicted in the following pictures.

In the image above is the test for the /l command to get the list of files in the server environment that is available for download

In the image above is the test for the /q command to quit the program

In the image above is the test for the /d command. As shown above there is communication but the file name extracted is not the correct file name which ends up having errors when the file transfer wants to open the file to start transferring the data.