CSD2161 Assignment 3 Design Documents

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- Code, Design Documents, Testing

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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.

```
Server IP Address: 192.168.56.1

Server Port Number: 9000
/L

Server Port
```

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

```
Server IP Address: 192.168.56.1

Server Port Munber: 9990

Add Sisconnection...

Clusers/gerall/Deminasoft/Telegram Desitop/Assignment3 (2)/Assignment3/Client_Project.exe (process 20282) exited sith code 8.

To automatically close the console when debugging stops, enable Tools->Options->Oebugging-Automatically close the console when debugging stops.

Press any key to close this window . . .

**Press any key to close this window . . .

**Thread (31988) is waiting for a task.**

Thread (31988) is waiting for a task.**

Thread
```

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

```
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Server IP Address: 192.168.56.1

Server POrt Number: 9000

dl 392.168.56.1:99010 Pil.txt

Dominading file: hell.txt from 192.168.56.1:9910

Encesiving file: hell.txt

File dominaded successfully: hell.txt

File dominaded successfully: hell.txt

Thread [35972] is satting for a task. Thread [35972]
```

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.