

Programming Assignment#1

A Simple Napster Style Peer to Peer File Sharing System

User Manual

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Over All:

This Program is based on JAVA, so the Java JRE is required to run.

All downloaded Files would store to [currently folder/ DownloadFromPeer]

Say you run this program at /user/desktop, then the download folder would be /user/desktop/ DownloadFromPeer.

For Server, the port number is 6666 which is hardCoded, so make sure there's any other programs using this port.

For Client, you do not need to worry about port overlapping. The program would automatically allocate an available port.

Complie:

Run follwing command

ant

The compiled classes are located in ./Build/

Step by Step Usage:

At first you need to run Server Just ONCE

-----Server-----

1. After you see this Manual, cd to folder where this manual located.
2. Then run following command:
ant runServer
3. The Server is running if you see, and leave it alone:

```
runServer:  
[java] Server Is Lisening At Port >>> 6666
```

-----Client-----

1. After you see this Manual, cd to folder where this manual located.
2. Then run following command:

ant runClient

3. The Client is running if you see:

```
runClient:
[java] ****MENU****
[java] 1. Share File
[java] 2. Search for a File
[java] 3. Download a File
[java] 4. List All Files
[java] 5. Exit
[java] ****End****
[java]
[java] uploder is listening at 64055
[java] Please pick an option, enter the number, then press enter
```

At the same time, check server bash, and make sure:

```
runServer:
[java] Server Is Lisening At Port >>> 6666
[java] Peer at 127.0.0.1 is Connected!
[java] Waiting For Peer 127.0.0.1's Request.
```

This indicated that the connection is successful established.

4. Follow the menu, enter the option you want, press enter, the program would guide you how to perform tasks.

If you want to register a file enter its relative path OR absolute path.

In my zip file, I include a folder named f, you can use it for test.

For example, I wanna register 0.txt in folder f.

```
>>>>>> menu >>>>>
```

```
1
```

```
>>>>>>ask you to enter name>>>>
```

```
f/0.txt
```

thus the file could be registered successfully;