CS550 Manual Document (PA#3)

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Client configuration

Following steps are required to execute this program :

1 - Specify an available port :

```
#define PORT_CLIENT 5002
```

2 - Configure your own environment :

```
#define SHARED_FOLDER "/Users/Cyril/Desktop/uploadp2p/"
#define SHARED_FOLDER_OWNER"/Users/Cyril/Desktop/uploadp2pOWNED/"
#define MAX_FILES 10
#define MAX_QUERIES 10
#define TTL 3

#define PUSH 0
#define PULL 1
#define TTR 10
```

- SHARED_FOLDER is the shared folder.
- SHARED_FOLDER_OWNER is the shared folder for owned files.
- MAX_FILES is the maximum number of files you want to share.
- MAX_QUERIES is the maximum number of query you want to save in cache.
- TTL is the time-to-live of your future queries.
- PUSH : 1 push approach activated, 0 deactivated
- PULL : 1 pull approach activated, 0 deactivated
- TTR is the time to refresh (in seconds)

3 - Configure neighbors :

Open or create a file named «config.txt» in your shared folder.
Then specify ip:port of all your neighbors.

Simple example with 2 neighbors :

127.0.0.1:5001
127.0.0.1:5002

3 - Run the program.

4 - Use the program:

Press 0 to exit.
Press 1 to search a file. And type a search or * to view all available files.
Press 2 to download a file. And type the name of the file you want to download.
Press 3 to increment file version. And type the name of the file you want to increment the version number of.

Test case

1 - Configure and run client 1
2 - Configure and run client 2
3 - Do a search on client 1 by pressing 1 then * or some characters.
4 - Download the desired file on client 1 by pressing 2 and typing the filename.
5 – And change the version number of the file by pressing 3 and followed by the filename.