

Output File

Output format of file searching

Once a query has been made, the current peer will send the message to the Index-server, and then the index-server will look through all the peer information and return the peerlist to the current peer.

```
Enter the main menu, Please select
AddFile
SearchFile
DownloadFile
DeleteFile
UpdateFile
Exit
SearchFile
Search File, Please Input a name:
test1.txt
Connection accepted from remote server!
File Found, Peer Found:
Peer name: peer1
Location: /src/P2Pfile/Peer1/filefolder
IP: 127.0.0.1
Listening port peer1
peer1 contains:
plt1.txt
plt10.txt
plt2.txt
plt3.txt
plt4.txt
plt5.txt
plt6.txt
plt7.txt
plt8.txt
plt9.txt
test1.jpg
test1.txt
test2.jpg
Peer name: peer2
Location: /src/P2Pfile/Peer2/filefolder
IP: 127.0.0.1
Listening port peer2
peer2 contains:
p2t1.txt
p2t10.txt
p2t2.txt
p2t3.txt
p2t4.txt
p2t5.txt
p2t6.txt
p2t7.txt
p2t8.txt
p2t9.txt
test1.txt
test2.jpg
test3.jpg
Peer name: peer3
Location: /src/P2Pfile/Peer3/filefolder
IP: 127.0.0.1
Listening port peer3
peer3 contains:
p3t1.txt
p3t10.txt
p3t2.txt
p3t3.txt
p3t4.txt
p3t5.txt
p3t6.txt
p3t7.txt
p3t8.txt
p3t9.txt
test1.txt
test2.jpg
test3.jpg
Peers contain this file are:
peer1
peer2
peer3
Connection accepted from remote server!
```

Figure 1 file searching

From the graph above we can see that peer1, peer2 and peer3 contain test1.txt.

Output format of file downloading

When we try to download a file by the command “DownloadFile”, both the current peer and the file owner will response. For instance, we bind the client to peer3 and download a file from peer1. We can see the output below:

```
Enter the main menu, Please select
AddFile
SearchFile
DownloadFile
DeleteFile
UpdateFile
Exit
DownloadFile
Which node you want to reach?
peer1
You are choosing node: peer1
Donwloading File
Connection accepted from remote server!
Save to C:\Users\fan zhang\Desktop\CS550PA1.6\src\P2Pfile\Peer3\filefolder\test1.jpg
Connection accepted from remote server!

Enter the main menu, Please select
AddFile
SearchFile
DownloadFile
DeleteFile
UpdateFile
Exit
```

Figure 2 file downloading

From the graph above we can see that the file test1.jpg is successfully saved to the path /src/P2Pfile/Peer3/filefolder.