CS550 Programming Assignment 3 (PA#3)

Maintaining File Consistency in the Hierarchical Gnutella-style P2P File Sharing System

Output File

1. Screenshot of the Super Peer

```
Peer (2) [Java Application] C:\Program Files\Java\jdk1.8.0_161\bin\javaw.exe (14-Oct-2018, 9:26:00 PM)

Please enter the Peer ID as configured in the Configuration Properties File

Session for peer id: 1 started...

Acting as super peer
```

2. Screenshot of a Leaf node with push based approach configured

```
Peer (2) [Java Application] C:\Program Files\Java\jdk1.8.0_161\bin\javaw.exe (14-Oct-2018, 9:26:35 PM)

Please enter the Peer ID as configured in the Configuration Properties File

Session for peer id: 2 started...

Welcome to search and download:

Options available:

Search/download file

Test the Average Response Time for a single client performing multiple sequential search Requests
```

3. Screenshot of a leaf node with pull based approach configured

```
Peer (3) [Java Application] C:\Program Files\Java\jdk1.8.0_161\bin\javaw.exe (01-Nov-2018, 3:52:13 AM)

Please enter the Peer ID as configured in the Configuration Properties File

Session for peer id: 2 started...

Welcome to search and download:

Options available:

Search/download file

Test the Average Response Time for a leaf node performing multiple sequential search Requests

Refresh downloaded files
```

4. Screenshot of Super Peer after the leaf node is registered.

```
Peer (2) [Java Application] C:\Program Files\Java\jdk1.8.0_161\bin\javaw.exe (14-Oct-2018, 9:26:00 PM)

Please enter the Peer ID as configured in the Configuration Properties File

Session for peer id: 1 started...

Acting as super peer

File Added: a - Copy (3).txt | Peer ID: 2 | IP:Port Number: 2000

File Added: a - Copy - Copy.txt | Peer ID: 2 | IP:Port Number: 2000

File Added: a - Copy.txt | Peer ID: 2 | IP:Port Number: 2000
```

5. Screenshot of the leaf node demonstrating file download

```
Peer (2) [Java Application] C:\Program Files\Java\jdk1.8.0_161\bin\javaw.exe (14-Oct-2018, 9:26:35 PM)
Please enter the Peer ID as configured in the Configuration Properties File
Session for peer id: 2 started...
Welcome to search and download:
Options available:
1. Search/download file
2. Test the Average Response Time for a single client performing multiple sequential search Requests
Enter file name to search:
Message id for search: Peer2.Search1
Paths searched are:
a.txt File found in the network at below peers
Found at Peer with peer ID: 2 , running on port:2000
Enter peer ID to download the file from:
Downloading from localhost:2000
file a.txt
File copied
```

6. Screenshot of the leaf node demonstrating the calculation of average response time for a single client performing multiple sequential search requests

```
Peer (2) [Java Application] C:\Program Files\Java\jdk1.8.0_161\bin\javaw.exe (14-Oct-2018, 9:26:40 PM)

Please enter the Peer ID as configured in the Configuration Properties File

3

Session for peer id: 3 started...
Welcome to search and download:
Options available:

1. Search/download file
2. Test the Average Response Time for a single client performing multiple sequential search Requests

How many iterations??

500

Enter file name to search:
a.txt

Message id for search: Peer3.Search1
average response time taken in nano seconds:216
```

7. Screenshot of a stale file deleted using push based approach:

```
Welcome to search and download:
Options available:
1. Search/download file
2. Test the Average Response Time for a leaf node performing multiple sequential search Requests

filename:file8.txt
dubDir:C:Whers\Chetan\Google Drive\My_PC\DS\WW\MAI\test\ADSPA3-Gnutella\src\downpeer8

Deleting stale file
C:Whers\Chetan\Google Drive\My_PC\DS\WW\Mai\test\ADSPA3-Gnutella\src\downpeer8\File acdified
Server1

display names:file8.txt
filenamefile8.txtdirectory file namefile8.txt
filenamefile8.txt
filen to found in the parent super peer-- Proceeding to search in other super peers
Valld/Invalid percentage:0

File DeleteS worth thread
filename:file8.txt
```

8. Screenshot of a stale file deleted using pull based approach:

```
Paths searched are:
file2.txt file found in the setwork at below peers
Found at Peer with peer ID: 6 , running on port:8000
Found at Peer with peer ID: 7 , running on port:8000
Found at Peer with peer ID: 8 , running on port:8000
Found at Peer with peer ID: 8 , running on port:8000
Found at Peer with peer ID: 8 , running on port:8000
Found at Peer with peer ID: 8 , running on port:8000
Found at Peer with peer ID: 9 , running on port:8000
Found at Peer with peer ID: 9 , running on port:8000
Found at Peer with peer ID: 9 , running on port:8000
Found at Peer with peer ID: 9 , running on port:8000
Found at Peer with peer ID: 9 , running on port:8000
Found at Peer with peer ID: 9 , running on port:8000
Found at Peer with peer ID: 9 , running on port:8000
Found at Peer with peer ID: 9 , running on port:8000
Found at Peer with peer ID: 9 , running on port:8000
Found at Peer with peer ID: 9 , running on port:8000
Found at Peer with peer ID: 9 , running on port:8000
Found at Peer with peer ID: 9 , running on port:8000
Found at Peer with peer ID: 9 , running on port:8000
Found at Peer with peer ID: 9 , running on port:8000
Found at Peer with peer ID: 9 , running on port:8000
Found at Peer with peer ID: 9 , running on port:8000
Found at Peer with peer ID: 9 , running on port:8000
Found at Peer with peer ID: 9 , running on port:8000
Found at Peer with peer ID: 9 , running on port:8000
Found at Peer with peer ID: 9 , running on port:8000
Found at Peer with peer ID: 9 , running on port:8000
Found at Peer with peer ID: 9 , running on port:8000
Found at Peer with peer ID: 9 , running on port:8000
Found at Peer with peer ID: 9 , running on port:8000
Found at Peer with peer ID: 9 , running on port:8000
Found at Peer with peer ID: 9 , running on port:8000
Found at Peer with peer ID: 9 , running on port:8000
Found at Peer with peer ID: 9 , running on port:8000
Found at Peer with peer ID: 9 , running on port:8000
Found at Peer with peer ID: 9 , running on port:8000
Found at Peer with peer ID: 9 , running on port:8000
Found at Peer
```