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CS 550: Advanced Operating Systems
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Dapster Output

Table of Contents

I. Peer Output

Registering Files

```
$ java -jar Peer.jar 2018

Please enter a command: get {filename} | register {filename} | exit

dapster-peer:2018 >>> register p1-1k.txt

Successfully registered file "p1-1k.txt" with the indexing server.

Please enter a command: get {filename} | register {filename} | exit

dapster-peer:2018 >>> register p2-2k.txt

Unable to register file "p2-2k.txt": it does not exist!

Please enter a command: get {filename} | register {filename} | exit

dapster-peer:2018 >>> register p1-2k.txt

Successfully registered file "p1-2k.txt" with the indexing server.

Please enter a command: get {filename} | register {filename} | exit

dapster-peer:2018 >>>
```

Downloading Small File

```
$ java -jar Peer.jar 2018

Please enter a command: get {filename} | register {filename} | exit

dapster-peer:2018 >>> get p2-1k.txt

| Found 1 peers for file p2-1k.txt.

|==> localhost:2019

Downloading from localhost:2019.

Successfully registered file "p2-1k.txt" with the indexing server.

Successfully downloaded p2-1k.txt from localhost:2019.

File size: 904 bytes.

<==|== Start of File Contents ==||==>

This is p2-1k!


This is a text file less than the size of 1K. This will actually show up
because it is below 1K. This script will continue

to play a lot of times. Haha!

<==|==  End of File Contents  ==||==>

Please enter a command: get {filename} | register {filename} | exit

dapster-peer:2018 >>>
```

Downloading Large File With Many Peers

```
$ java -jar Peer.jar 2018

Please enter a command: get {filename} | register {filename} | exit

dapster-peer:2018 >>> get p2-8k.txt

| Found 3 peers for file p2-8k.txt.

|==> localhost:2019

|==> localhost:2020

|==> localhost:2021

Downloading from localhost:2020.

Successfully downloaded p2-8k.txt from localhost:2020.

File size: 8652 bytes.

File is larger than 1K - will not display.

Successfully registered file "p2-8k.txt" with the indexing server.

Please enter a command: get {filename} | register {filename} | exit

dapster-peer:2018 >>>
```

Downloading File With No Peers

```
$ java -jar Peer.jar 2018
Please enter a command: get {filename} | register {filename} | exit
dapster-peer:2018 >>> get fake.txt
No peers with given file name "fake.txt" or server error!
Please enter a command: get {filename} | register {filename} | exit
dapster-peer:2018 >>>
```

II. Peer Log

```
02-22-2018-20-02-53: SUCCESS sending file p2-1k.txt.
02-22-2018-20-06-46: SUCCESS sending file p2-8k.txt.
02-22-2018-20-07-10: SUCCESS sending file p2-8k.txt.
02-22-2018-20-09-30: SUCCESS sending file p2-8k.txt.
02-22-2018-20-13-04: SUCCESS sending file p2-3k.txt.
02-22-2018-20-13-13: SUCCESS sending file p2-9k.txt.
02-22-2018-20-13-33: SUCCESS sending file p2-10k.txt.
02-22-2018-20-13-39: SUCCESS sending file p2-1k.txt.
02-22-2018-20-13-42: SUCCESS sending file p2-2k.txt.
02-22-2018-20-13-45: SUCCESS sending file p2-1k.txt.
02-22-2018-20-13-52: SUCCESS sending file p2-6k.txt.
```

III.   Server Output

Listing Full Index

```
$ java -jar Server.jar
Please enter a command: list | list {filename} | exit
dapster-server >>> list
Indexing Server Contents:
 +-- 6 files --+
            p2-3k.txt | 2 peers
 - localhost:2019
 - localhost:2020
            p2-6k.txt | 2 peers
 - localhost:2019
 - localhost:2020
            p1-1k.txt | 1 peers
 - localhost:2018
            p1-2k.txt | 1 peers
 - localhost:2018
            p2-1k.txt | 4 peers
 - localhost:2019
 - localhost:2018
 - localhost:2020
 - localhost:2021
            p2-8k.txt | 2 peers
 - localhost:2019
 - localhost:2020
```

Listing Index for One File

```
$ java -jar Server.jar

dapster-server >>> list p2-8k.txt

          p2-8k.txt | 8 peers

 - localhost:2019

 - localhost:2020

 - localhost:2021

 - localhost:2018

 - localhost:2018

 - localhost:2018

 - localhost:2020

 - localhost:2020

Please enter a command: list | list {filename} | exit

dapster-server >>>
```

IV.   Server Log

02-22-2018-20-00-41: Registering localhost:2018 with file p1-1k.txt.

02-22-2018-20-00-56: Registering localhost:2018 with file p1-2k.txt.

02-22-2018-20-02-39: Registering localhost:2019 with file p2-10k.txt.

02-22-2018-20-02-39: Registering localhost:2019 with file p2-1k.txt.

02-22-2018-20-02-39: Registering localhost:2019 with file p2-2k.txt.

02-22-2018-20-02-39: Registering localhost:2019 with file p2-3k.txt.

02-22-2018-20-02-39: Registering localhost:2019 with file p2-4k.txt.

02-22-2018-20-02-39: Registering localhost:2019 with file p2-5k.txt.

02-22-2018-20-02-39: Registering localhost:2019 with file p2-6k.txt.

02-22-2018-20-02-39: Registering localhost:2019 with file p2-7k.txt.

02-22-2018-20-02-39: Registering localhost:2019 with file p2-8k.txt.

02-22-2018-20-02-39: Registering localhost:2019 with file p2-9k.txt.

02-22-2018-20-02-53: Searching for p2-1k.txt: 1 peers found.

02-22-2018-20-02-53: Registering localhost:2018 with file p2-1k.txt.

02-22-2018-20-06-46: Searching for p2-8k.txt: 1 peers found.

02-22-2018-20-06-46: Registering localhost:2020 with file p2-8k.txt.

02-22-2018-20-07-10: Searching for p2-8k.txt: 2 peers found.

02-22-2018-20-07-10: Registering localhost:2021 with file p2-8k.txt.

02-22-2018-20-07-32: Searching for p2-8k.txt: 3 peers found.

02-22-2018-20-07-32: Registering localhost:2022 with file p2-8k.txt.

02-22-2018-20-09-30: Searching for p2-8k.txt: 4 peers found.

02-22-2018-20-09-30: Registering localhost: 2023 with file p2-8k.txt.

02-22-2018-20-09-43: Searching for p2-8k.txt: 5 peers found.

02-22-2018-20-09-43: Registering localhost:2024 with file p2-8k.txt.

02-22-2018-20-10-51: Searching for fake.txt: 0 peers found.

02-22-2018-20-13-04: Searching for p2-3k.txt: 1 peers found.

V.   Known Issues

Requested file does not exist at Peer (Peer deliberately deletes file it registered)

Peer Client:

```
dapster-peer:2019 >>> get p1-5k.txt

| Found 1 peers for file p1-5k.txt.

|==> localhost:2018

Downloading from localhost:2018.

java.net.SocketException: Connection reset
```

Peer Server:

```
dapster-peer:2018 >>> java.io.FileNotFoundException: shared\p1-5k.txt
(The system cannot find the file specified)
```

This issue could be fixed with appropriate exception handling.

Please check the Troubleshooting section of the Manual for potential misuses of the software