Output

PUSH based Approach - Modifying 'file1' in Peer 1

Peer 1:

```
P2PGmutella git:(master) % ant run ant -Darg0-1 -Darg1-8001 run
Buildfile: /Users/Kunal/Documents/workspace/P2PGnutella/build.xml

run:

[java] Peer 1 acting as server on 127.0.0.1:8001
[java]
[java]
[java]
[java]
[java]
[java]
[java] **** Maintaining File Consistency in your Gnutella Style P2P System ****
[java] 1. Search and Download File
[java] 2. Modify File
[java] 3. Exit
[java] 3. Exit
[java] 5. Exit
[java] Local Search: File Found in the current peer
[java] Local Search: File Found in the current peer
[java] Local Search: File Found in the current peer
[java] Local Search: File Found in the current peer
[java] Local Search: File Found in the current peer
[java] Local Search: File Found in the current peer
[java] Local Search: File Found in the current peer
[java] Local Search: File Found in the current peer
[java] Java]
[java]
*** Maintaining File Consistency in your Gnutella Style P2P System ***
[java]
[java] 1. Search and Download File
[java] 2. Modify File
[java] 2. Modify File
[java] 3. Search and Download File
[java] 5. Search and Download File
[java] 5. Park MoDiFY: File1
[java] 1. Invalidating coshed copy of file1 from peer 1
[java]
```

Peer 2:

```
→ P2PGnutella git:(master) x ant run ant -Darg0=2 -Darg1=8002 run
Buildfile: /Users/Kunal/Documents/workspace/P2PGnutella/build.xml
      [java] Peer 2 acting as server on 127.0.0.1:8002
      [java]
     [java] Enter file name to search:
file1
      [java]
     [java]
[java]
[java]
      [java]
     [java]
[java]
             'file1 found in the nework at below peers
      [java] 1. Peer1 running on 127.0.0.1:8001
[java] 2. Peer3 running on 127.0.0.1:8003
     [java]
[java] Do you wish to download the file? (Y/N):
     [java] Enter from which peer you want to download the file:
     [java]
[java]
[java]
            **** Maintaining File Consistency in your Gnutella Style P2P System ****
      [java]
[java]
     [java]
[java] 1. Search and Download File
[java] 2. Modify File
[java] 0. Exit
[java] Select your choice:
[java] Invalidating cashed copy of file1 from peer 2
```

Peer 3:

```
P2PGnutella git:(master) % ant run ant -Darg0=3 -Darg1=8003 run

Buildfile: /Users/Kunal/Documents/workspace/P2PGnutella/build.xml

run:

[java] Peer 3 acting as server on 127.0.0.1:8003
[java]
[java] ***** Maintaining File Consistency in your Gnutella Style P2P System *****
[java] ***** Maintaining File Consistency in your Gnutella Style P2P System ****
[java] 1. Search and Download File
[java] 2. Modify File
[java] 2. Modify File
[java] Select your choice:
[java] Incoming Request to peer 3: From - 4 Search locally and send request to neighbours for msg id- 1490052704584-4-1
[java] Local Search: File Found in the current peer
[java] Incoming Request to peer 3: From - 2 Search locally and send request to neighbours for msg id- 1490052792330-2-1
[java] Local Search: File Found in the current peer
[java] Invalidating cashed copy of file1 from peer 3
[java]
```

Peer 4:

```
| P2PGnutella git:(master) x ant run ant -Darg0=4 -Darg1=8004 run

Buildfile: /Users/Kunal/Documents/workspace/P2PGnutella/build.xml

run:

[java] Peer 4 acting as server on 127.0.0.1:8004
[java]
[java]
[java] ****** Maintaining File Consistency in your Gnutella Style P2P System ****
[java] 1. Search and Download File
[java] 2. Modify File
[java] 0. Exit
[java] Select your choice:
[java] Incoming Request to peer 4: From - 3 Search locally and send request to neighbours for msg id- 1490052792330-2-1
[java] Local Search: File Found in the current peer
[java]
[java] Invalidating cashed copy of file1 from peer 4
```

Peer 5:

Peer 6:

```
P2PGnutella git:(master) % ant run ant -Darg0=6 -Darg1=8006 run

Buildfile: /Users/Kunal/Documents/workspace/P2PGnutella/build.xml

run:

[java] Peer 6 acting as server on 127.0.0.1:8006
[java]
[java]
[java] ***** Maintaining File Consistency in your Gnutella Style P2P System ****
[java] 1. Search and Download File
[java] 2. Modify File
[java] 0. Exit
[java] 5. Exit
[java] 5. Exit
[java] 5. Exit
[java] 5. Exit
[java] 1. Cocal Search: File Found in the current peer
[java] Incoming Request to peer 6: From - 5 Search locally and send request to neighbours for msg id- 1490052704584-4-1
[java] Invalidating cashed copy of file1 from peer 6
[java]
```

Peer 7:

Peer 8:

Peer 9:

Peer 10:

PUSH based Approach - Modifying 'file1'

Peer 1:

Peer 2:

Peer 3:

Peer 4:

```
P2PGnutella git:(master) ✗ ant run ant -Darg0=4 -Darg1=8004 run
Buildfile: /Users/Kunal/Documents/workspace/P2PGnutella/build.xml
run:
    [java] Peer 4 acting as server on 127.0.0.1:8004
    [java]
    [java]
    [java] **** Maintaining File Consistency in your Gnutella Style P2P System ****
    [java] 1. Search and Download File
    [java] 2. Modify File
    [java] 3. AutoUpdate
    [java] 0. Exit
   [java] Select your choice:
   [java] Enter file name to search:
file6
    [java]
    [java]
    [java]
    [java]
    [java]
    [java] 'file6 found in the nework at below peers
    [java] 1. Peer5 running on 127.0.0.1:8005
    [java]
   [java] Do you wish to download the file? (Y/N):
   [java] Enter from which peer you want to download the file:
   [java] Index: 1, Size: 1
    [java]
    [java]
    [java] 1. Search and Download File
   [java] 2. Modify File
[java] 3. AutoUpdate
    [java] 0. Exit
   [java] Select your choice:
```

Peer 5:

```
P2PGnutella git:(master) ✗ ant run ant -Darg0=5 -Darg1=8005 run
Buildfile: /Users/Kunal/Documents/workspace/P2PGnutella/build.xml
run:
    [java] Peer 5 acting as server on 127.0.0.1:8005
     [java]
          [java]
    [java] 1. Search and Download File
[java] 2. Modify File
[java] 3. AutoUpdate
[java] 0. Exit
    [java] Select your choice:
    [java] Enter file name to search:
file6
     [java]
          [java]
    []ava]
[java] 1. Search and Download File
[java] 2. Modify File
[java] 3. AutoUpdate
[java] 0. Exit
     [java] Select your choice:
[java] ENTRY_MODIFY: file6
    [java] Incoming Request to peer 5: From - 4 Search locally and send request to neighbours for msg id- 1490053961692-4-1
[java] Local Search: File Found in the current peer
```

Peer 6:

```
Buildfile: /Users/Kunal/Documents/workspace/P2PGnutella/build.xml

run:

[java] Peer 6 acting as server on 127.0.0.1:8006
[java]
[java]
[java]
[java] ***** Maintaining File Consistency in your Gnutella Style P2P System ****
[java] 1. Search and Download File
[java] 2. Modify File
[java] 3. AutoUpdate
[java] 0. Exit
[java] Select your choice:
[java] Incoming Request to peer 6: From - 5 Search locally and send request to neighbours for msg id- 1490053961692-4-1
[java]
```

Peer 7:

Peer 8:

```
P2PGnutella git:(master) x ant run ant -Darg0=8 -Darg1=8008 run

Buildfile: /Users/Kunal/Documents/workspace/P2PGnutella/build.xml

run:

[java] Peer 8 acting as server on 127.0.0.1:8008
[java]
[java]
[java]
[java]
***** Maintaining File Consistency in your Gnutella Style P2P System ****
[java] 1. Search and Download File
[java] 2. Modify File
[java] 3. AutoUpdate
[java] 0. Exit
[java] Select your choice:
```

Peer 9:

Peer 10:

Run Test Cases:

```
| Java | Incoming Request to peer 3: From - 1 Search locally and send request to neighbours for msg id- 1488159446749-8-16 | Java | Incoming Request to peer 2: From - 1 Search locally and send request to neighbours for msg id- 1488159446749-8-16 | Java | Incoming Request to peer 2: From - 1 Search locally and send request to neighbours for msg id- 1488159446749-8-16 | Java | Java | Incoming Request to peer 4: From - 1 Search locally and send request to neighbours for msg id- 1488159446749-8-16 | Java | Java | Incoming Request to peer 4: From - 1 Search locally and send request to neighbours for msg id- 1488159446749-8-16 | Java | Incoming Request to neighbours for msg id- 1488159446749-8-16 | Java | Intitury: Send following result back to 1 | Java | Intitury: Send following result back to 1 | Java | Intitury: Send following result back to 1 | Java | Intitury: Send following result back to 1 | Java | Intitury: Send following result back to 1 | Java | Intitury: Send following result back to 1 | Java | Intitury: Send following result back to 1 | Java | Intitury: Send following result back to 1 | Java | Intitury: Send following result back to 1 | Java | Intitury: Send following result back to 1 | Java | Intitury: Send following result back to 1 | Java | Intitury: Send following result back to 1 | Java | Intitury: Send following result back to 1 | Java | Intitury: Send following result back to 1 | Java | Intitury: Send following result back to 1 | Java | Intitury: Send following result back to 1 | Java | Intitury: Send following result back to 1 | Java | Intitury: Send following result back to 1 | Java | Intitury: Send following result back to 1 | Java | Intitury: Send following result back to 1 | Java | Intitury: Send following result back to 1 | Java | Intitury: Send following result back to 1 | Java | Intitury: Send following result back to 1 | Java | Intitury: Send following result back to 1 | Java | Intitury: Send following result back to 1 | Java | Intitury: Send following result back to 1 | Java | Intitury: S
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