Programming Assignment 1

NAPSTER PEER TO PEER SHARING SYSTEM

CS550 – Advanced Operating System

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<u>**USER MANUAL:**</u>

Steps to Run the Project:

1) Java Development Kit(JDK) and JRE(Java Runtime Environment) should be installed on the System.

2) Ant Tool should be installed to run the Build Script.

3) Navigate to the folder which contains the CentralIndexServer, Peer1, Peer2, Peer3 and Performance_Evaluate

4) The CentralIndxServer, Peer1, Peer2, Peer3 and Performance_Evaluate folder contains:

- The Source file:".java"
- Compiled files:".class" are stored inside the "dest" folder
- "build.xml": "ant script"
- Indxip.txt: IP Address of the CentralIndexServer
- Testfiles : Registration, Search, Download

5) Simulation:

- Running the project on Multiple Machines.
- If Machine-1 act as the CentralIndexServer. From the zip, Copy the CentralIndxServer folder into Machine-1. Copy the Folder Peer1 into a different Machine2 and similarly for others.
- In Machine1, navigate into the CentralIndexServer folder from the Terminal.
- On the Command prompt Run the build-script using the ant command as
  - ant
- or you can build using the following command
  - javac CentralIndexServer.java
- Run the CentralIndxServer by the command:
  - $ java CentralIndexServer
- This runs the CentralIndexServer and it starts listening for incoming connections from other Peers.
- Now on Machine2, where Peer1 folder is copied, navigate into Peer1 folder from the Terminal.
- Edit the file "indxip.txt" present inside Peer1folder. Edit and Enter the IP Address of the Machine which is running the CentralIndexServer into this file.
- Save the file and exit.
- On the Command prompt Run the build-script using the ant command as
  - ant
- or you can build using the following command
  - javac PeerServer.java
- Run the PeerServer by the command:
  - java PeerServer
- Similarly applies for Peer2 & Peer3
- For Testing purposes, 10 testfiles have been placed inside each Peer Folder.