

# CS550 PA1 Manual

Following is step by step procedures of system execution.

1. Deploy source code residing in 'Source\_Code' folder to different machines. 'Server' folder contains java files for index server. 'Client1', 'Client2' and 'Client3' contains java files for client1, client2 client3 respectively.

2. Compile and run IndexServer.java file.

To compile:- `javac IndexServer.java`

To run: - `java IndexServer`

If server socket is created successfully then it will display message "Index server is now in listening mode."

3. On Client1 machine, Compile and run PeerClient1.java file.(Similar commands as mentioned above just change file name accordingly). It will asks for index server's IP address to make connection. Enter IP address of machine on which index server is residing.
4. If connection is successful then it will asks to select operation. For example, press 1 to register, press 2 to search and press any other key to exit. Give appropriate input.
5. If you select to register, all information such as IP address, physical address, port number on which it listens to other peers and file list to indexing server.
6. If you select to search, system will ask to insert file name. If file is available in any of the registered peers, system will display list of peer with sequence number. Enter sequence number to select particular peer and download file from it. Path where file is downloaded is displayed after download completes. If file is not available with any of the peers, system will display "File does not exist" message.
7. If you select to exit then peer programs stops execution.
8. For other peers,you may perform step 3 to 7 steps concurrently.