

Deliverables

For Peer to Peer File sharing system, we have integrated 8 java files into a jar file "**File_Transfer_P2P.jar**", external jar named "**javax.ws.rs-api-2.0.jar**" for implementing MultiValuedHashMap Data structure and we have created 3 Windows Executable batch files.

1. **IndexServer.java**

This java file contains the main method for setting up the Index Server and registering its service in the rmi naming registry and binds its address.

2. **IndexServerInterface.java**

This java file extends Remote class and declare Indexing Server's Remote methods (Registry & Search)

3. **IndexServerImpl.java**

This java file implements the "IndexServerInterface" interface and define the remote methods (Registry & Search)

4. **Peer.java**

This java file contains the main method for setting up the Peer and registering its service in the rmi naming registry and binds its address.

5. **PeerDownloadInterface.java**

This java file extends Remote class and declare Peer's Remote method (fileDownload)

6. **ClientInterface.java**

6.1. This java file implements the "PeerDownloadInterface" interface and define the remote method in it (fileDownload).

6.2. The Peer get the service from RMI and obtains target address (Indexing server's address).

7. **MultiClient.java**

This java file contains the main method for setting up multiple clients with the help of Multi-Threading and registering each of its service in the rmi naming registry and binds its address.

8. **AvgRespFileSearch.java**

This java file gets the service from RMI and obtains target address (Indexing server's address) and call Server's Remote methods concurrently via Multi-threading. This java file calculates Average Search Response Time observed by each client by hitting 500 sequential requests.

Windows Batch files:

1. **run_peer.bat**

a. Setting the java path

set path=%PATH%;C:\Program Files\Java\jdk1.6.0_14\bin

b. Executing the Peer class in the jar file by passing supporting jars as classpath

java -cp File_Transfer_P2P.jar;javax.ws.rs-api-2.0.jar com.filetransfer.Peer

2. **run_server.bat**

a. Setting the java path

set path=%PATH%;C:\Program Files\Java\jdk1.6.0_14\bin

b. Executing the Peer class in the jar file by passing supporting jars as classpath

java -cp File_Transfer_P2P.jar;javax.ws.rs-api-2.0.jar com.filetransfer.IndexServer

3. **run_test.bat**

a. Setting the java path

set path=%PATH%;C:\Program Files\Java\jdk1.6.0_14\bin

- b. Executing the Peer class in the jar file by passing supporting jars as classpath
java -cp File_Transfer_P2P.jar;javax.ws.rs-api-2.0.jar com.filetransfer.MultiClient
pause