DISTRIBUTED SYSTEMS PROJECT – 1 REPORT

Project made by

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We have implemented the Single Threaded file server and the DropBox Synchronization (Bonus Assignment)

IMPLEMENTATION :

1. Single Threaded File Server

* We have implemented the client server using two files DropBoxClient.java and DropBoxServer.java
* We have used Socket Programming to connect to server using the IP address of the server machine and the port number
* We have made use of a single thread and written the socket initialization code inside the Thread’s run() method
* The client machine can perform one of the 4 operations, one at a time

1. Upload a file to the server
2. Download a file from the server
3. Rename a file on the server
4. Delete a file on the server
5. DropBox Synchronization – Bonus Assignment

/\*PRAMODH PLEASE INSERT YOUR PART HERE \*/

WHAT WE HAVE LEARNT :

* We have learnt to implement socket connection between the client and the server
* We have learnt to use Input and Output Streams to read/write from/to a file and capturing it in a byte array
* We have learnt to use in.readUTF() and out.writeUTF() methods to send data across machines
* We have learnt to implement switch structure within an infinite while loop with break conditions

/\*PRAMODH PLEASE INSERT YOUR LEARNINGS ABOUT THE DROPBOX SYNCHRONIZATION HERE \*/

WHAT PROBLEMS HAVE WE ENCOUNTERED :

* Choosing the efficient method between socket programming and remote procedure call
* Handling socket exceptions

/\*PRAMODH PLEASE INSERT YOUR PROBLEMS ABOUT THE DROPBOX SYNCHRONIZATION HERE \*/