**BLOCKCHAIN IN STORING MEDICAL HEALTH RECORDS**

The folder Server hosts a hotspot network and both the clients namely Client\_Amogh and Client\_Akhil can request to add a transaction and the transaction gets reflected in all the other laptops.

Java is used to implement this entire Block Chain for medical health records. Java TCP Socket Programming is used to establish connection .The object is serialized and sent to all other connected laptops.

Net beans IDE have been used for the implementation of this project.

SQLite manager has been used to implement the database function and SQL tables in all the laptops. The Block database table represents our Block Chain.

Whenever a laptop wants to add a block ( createUser() ) he has to press 1 after running the code and input according to the message displayed on the screen and has to enter 0 if he does not want to enter a block.

Whenever a laptop wants to add a block, it checks whether the patient already exists in the block chain through Zero Knowledge proof ( verifyTransaction() ) and updates the block chain accordingly.

Whenever there is a change in the length of the block chain, the new transaction gets mined on all the other laptops (mineBlock() ) and hence the peer to peer connection of block chain is established.

After the successful compilation of the program the updated block chain will be printed ( viewUser() ).

NOTE: All systems should be connected to same Wi-Fi network

Collaborations:

Anish Dey (2017A7PS0220H)

Akhil Agrawal (2017A7PS0190H)