DCN LCL WRITE-UP MATURITY TEST

Elaborate the LCL research performed in the write-up briefly. Present your findings.

The study on the architecture of Blockchain technology is done. The hashing algorithm

which is used in the networking via Blockchain has also been studied and the pseudocode

for encryption and decryption of the transmitted data between two end-users is also

established and analyzed. The time complexity of the operation of hashing algorithm in

Blockchain is determined and presented in the write-up. An Open Addressing method is

taken into consideration in order to find the optimal method of mapping encrypted values in

the hash table.

Identify the layer of concern of your research. Relevant to which protocol layer?

The Application, Transport, Session and Network layers are the primary protocol layers

that are applicable in P2P communication via Blockchain technology. The Session layer

establishes a communication between two end users (i.e. source and destination) and as

the sender transmits data from one end, it is executed via Application layer and the

Transport and Network layers contributes in packetizing and transmission of data from

source to destination end.

How does your findings qualify as a value addition & contribution towards the state of

the art research?

The conclusion drawn from the write-up have the potential to be used in incremental

research in order to enhance the time complexity of the hashing algorithm. Might as well, a

unique algorithm can be formulated that would help in mapping the encrypted values in the

hashing table without screening through the whole table that would eventually improve the

time complexity. As the potential threats of 51 percent attack has also been highlighted in

the write-up, a concise algorithm based on the incremental research taking leads from this

write-up would help making P2P communication even more securer.

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