

(54) Title of the invention : Design And Implementation Of Three Layered EBC Protocol For Secure Data Transfer In Enthree

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(57) Abstract :

In recent years, the proliferation of end-to-end encrypted services to secure conversations brought about by apps such as Chat has increased. Platforms such as Whatsapp and Signal are implementing end-to-end encryption in order to safeguard the data flows of their users. The highest level of protection for a communication system is provided by end-to-end encryption. In a system that encrypts data from beginning to finish, the information may be accessed by the sender and the intended receiver (or recipients) but no one else. Hackers and other unauthorized parties will not be able to access the encrypted data that is stored on the server. Recent developments in society have resulted in the proliferation of many social media apps via which individuals are able to maintain communication with their families, friends, and coworkers. They are able to readily communicate their thoughts and ideas with one another, post photographs, and exchange both text and voice communications. That's a bright spot in the application, all things considered. On the other hand, it is uncertain if all of these programmes provide safe data transmission between friends and family. This is something that will always be an open issue of discussion. In order to solve these problems, we came up with the idea of a three-tiered Encrypted Blockchain Protocol (EBC) that uses end-to-end encryption to ensure the safety of data transit. There is a wide variety of ways to use blockchain technology, and we have offered several new techniques, along with a few methods, that are able to securely transmit data utilizing the sha family of hashes (keccak). Finding a method for the safe transmission of data across three different applications is the objective of the innovation. The first programme may be used for conversation, while the second can be used to post ideas. The third application allows for the uploading of photographs. For the purpose of end-to-end data transfer, these apps are transmitted by combining the advantages of a three-layered EBC protocol with blockchain and cryptography methods. This is done in the Enthree application.

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