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ABSTRACT

Blockchain technology has been seeing widespread interest as a means to ensure the integrity, confidentiality, and availability of data in a trustless environment. They are designed to protect data from both internal and external cyber-attacks by utilizing the aggregated power of the network to resist malicious efforts. In this article, we will create our decentralized messaging application utilizing the Ethereal Whisper protocol. Our application will be able to send encrypted messages both securely and anonymously. We will utilize the ethereal platform to deploy our blockchain network. This application would be resistant to most suppression tactics due to its distributed nature and Adaptability of its communication protocol.

1) Mist Browser: an interface to access various dApps.
2) Decentralized Applications.
3) Whisper: it is Ethereum's P2P communication protocol for decentralized applications. P2P communication between nodes in the Whisper network utilizes the D Vp2p Wire Protocol. A dApp instance can create an identity within a node that is connected to Whisper. This identity is needed to send or receive messages. Once a message is sent, it is, in theory, supposed
to be routed through every Whisper node. This makes it necessary to implement a PoW algorithm to prevent denial-of-service (DoS) attacks. Messages are only processed and further routed if their PoW is found to exceed a predefined threshold.

LIST OF FIGURES

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