

Providing a Secure, Reliable and Decentralized Document Management Solution Using Blockchain by a Virtual Identity Card

Authors : Meet Shah, Ankita Aditya, Dhruv Bindra, V. S. Omkar, Aashruti Seervi

Abstract : In today's world, we need documents everywhere for a smooth workflow in the identification process or any other security aspects. The current system and techniques which are used for identification need one thing, that is "proof of existence", which involves valid documents, for example, educational, financial, etc. The main issue with the current identity access management system and digital identification process is that the system is centralized in their network, which makes it inefficient. The paper presents the system which resolves all these cited issues. It is based on "blockchain" technology, which is a "decentralized system". It allows transactions in a decentralized and immutable manner. The primary notion of the model is to "have everything with nothing". It involves inter-linking required documents of a person with a single identity card so that a person can go anywhere without having the required documents with him/her. The person just needs to be physically present at a place wherein documents are necessary, and using a fingerprint impression and an iris scan print, the rest of the verification will progress. Furthermore, some technical overheads and advancements are listed. This paper also aims to layout its far-vision scenario of blockchain and its impact on future trends.

Keywords : blockchain, decentralized system, fingerprint impression, identity management, iris scan

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