KryptoNite

Overview

High value data like land registry, educational documents, employment, transaction and health records etc. are required by individuals and organizations as part of their routine activities. However, current mechanism of data exchange is mostly manual, paper based, slow and vulnerable with risks of tampering, forgery and thefts. Our aim is to secure high value and sensitive data elements such as land registry, employee and salary records, pension payments, education and other qualification documents and certificates. The Blockchain's application of the digital timestamp and its certification is carried out by posting the document's cryptographic imprint (SHA256 hash) on Ethereum"s blockchain for data security that eliminates all the ambiguity associated with fake transaction, fake documents as blockchain based records are time stamped and any alteration made to it are also securely recorded. This data can be verified without any human intervention, therefore not leaving any scope for manipulation or copying of sensitive information by unscrupulous insiders or external hackers.

Goals

Our aim is to secure high value and sensitive data elements such as land registry, employee and salary records, pension payments, education and other qualification documents and certificates.

Scalability

This can be every person in the state, and even in the whole country, if provided with required authority and support from government.

Technology

The application of the digital timestamp and its certification is carried out by posting the document's cryptographic imprint (SHA256 hash) on bitcoin's blockchain. Using Blockchain to notarize proof of ownership for data security that eliminates all the ambiguity associated with fake transaction, fake documents as blockchain based records are time stamped and

any alteration made to it are also securely recorded. This data can be verified without any human intervention, therefore not leaving any scope for manipulation or copying of sensitive information by unscrupulous insiders or external hackers.