SoliDoX

Abstract

Now that the “Crypto -Bubble” has burst, time has come for Blockchain technology to really find its place. One potential characteristics of blockchains that can be particularly useful is its immutability. It is impossible to tamper the data on a blockchain. The idea of this project is to use blockchain as a medium for verifying the legitimacy of documents. The institutions issues documents to a public blockchain. Whenever a person has to prove the validity of a document, they can provide a document ID through which the legitimacy can be verified by referring the blockchain. The metadata associated with the document will have a hash of it and points to an encrypted copy of the uploaded document. This project aims to use Ethereum and its smart contract technology to implement this. Each document and associated metadata will be stored on Ethereum network as standardized non-fungible ERC721 based tokens. As reading from a blockchain is free, verification can be done free of cost. But, issuing contracts will cost a small transaction fee which will be paid as per the exact use case (A training institute can charge students for issuing certificates).

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