**Blockchain based Digital Assets Exchange NFT**

**Information Security**

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**Problem Statement:**

Assets including documents, videos and pictures remain within the user’s machine and due to this no profit could be gain from them. Therefore, there is a need of such system that allows users to sell their copyright to other users and obtain benefits from it as well.

**Objective:**

The aim of this system is to allow user to convert their assets in to digital assets that could be exchange with other users through blockchain and from that user can gain profit as well.

**Method:**

A digital asset is anything that is created and stored in digital form and is identifiable and has a value. Non-fungible tokens (NFTs) are the assets on a blockchain that can be traded in a blockchain system.

A user with an asset will convert it into a digital asset and its NFT will be created. The user will post its asset on the website through which it could be traded with another user. A seller will provide an amount to trade their assets. The buyer will purchase the assets and provide the amount with Ethereum. The account created will provide public and private key address where public key address will be used as an identity and to transfer the amount through the blockchain. A user registration and login system will be intact in the system for securing the user authentication via public and private key signatures.