Software Requirements Specification (SRS) Document

Own Your Home
Team 5

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Brief problem statement

The project asks us to develop a low code/no code Web 3.0 based app/protocol that allows users to fractionalize their house ownership by establishing digital NFTs of sections of their property in exchange for cryptocurrency/ digital tokens, allowing them to be free of the loan traps created by the centralized banks.

System requirements

The final goal of this project is to create a web 3.0 based website and a custom contract through which users can create digital NFTs of their real-world assets like house or Real estate and then fractionalize this newly created NFT.

The Project should have the following features,

1) *The website should be able to connect to digital wallets present on your PC like Meta-Mask wallet etc.*
2) *We should be able to see the assets and liquidity available on other DAOs (like CitaDao) and purchase them in our website.*
3) *The contract should be based on ERC726 token.*
4) *The front end could be implemented in Word-press or Bubble.*
5) *The smart contract would be built in Solana.*

Users profile

The project would be primarily used by the following users:

1) *Liquidity Owners - These will be the property owners who would use our website to convert the property into a digital asset and fractionalize them.*
   a. *Familiarity with using computers – low to medium*
   b. *Familiarity in using similar website – low to expert*
2) *The speculators – They provide the capital that the people are betting on. They will buy/sell shares or digital NFTs.*
   a. *Familiarity with using computers – low to medium*
   b. *Familiarity in using similar website – low to medium*

3) *Community Managers – These*
   a. *Familiarity with using computers – low to medium*
   b. *Familiarity in using similar website – intermediate to experts*

4) *Token/NFT Buyers – These will be the people who would buy the digital assets in exchange for some rights over the fractionalized property.*

Feature requirements (described using use cases)

No.	User Case Name	Description	Release
1.	Adding Property	The liquidity providers should be able to convert their real assets to digital NFTs.	R1
2.	Token for exchange	There should be a token based on ERC726 standard through which people can exchange digital NFTs	R1
3.	Fractionalization of the NFT	The liquidity provider should be able to fractionalize the digital NFT created.	R2
4.	Adding property rights	The liquidity owner should be able to specify what rights over the property a speculator will get when they buy a fractionalized part.	R2
5.	Authentication with user wallets	Any user visiting should be able to connect through the digital wallets present on their systems like Meta-Mask etc.	R1
6.	Support for other Ethereum based tokens	Users should be able to use any Ethereum based token to buy/sell the digital NFTs.	R2
7.	Interoperability with other DAOs	Buyers should be able to see the NFTs available on similar webapps and should be able to buy them through our website.	R1
8.	Extended Interoperability	Our NFTs should be shown on other DAOs websites as well and users there should be able to buy them.	R2
9.	Verification of property.	The verifier should be able to submit proof that the liquidity provider is the real owner of the property.	R1

Test Backlog

No backlogs as of yet.