Case Study

Cryptofish - (Theme should be Blockchain and NFT)

Overview

Crypto Fish NFT, created by Nemo, is an innovative and captivating project that combines the world of cryptocurrency and blockchain technology with unique, digitally collectible fish-themed artworks. Each Crypto Fish NFT represents a one-of-a-kind digital asset that is secured and verified on the blockchain, ensuring authenticity and ownership. Fish enthusiasts and crypto collectors alike can purchase, trade, and showcase these virtual fish, each with distinct traits and rarity levels.

Challenges:

- Withdrawal to multiple owners
- Insertion whitelist user data from Excel file.
- Create fee concept.
- Size of smart contract
- team struggled to find a new way to connect to different crypto wallets i.e. MetaMask,

Solution:

- We used a call function instead of a transfer function.
- We have implemented two functions to solve this issue. First one is inserted single whitelist user data, whereas second is used for multiple whitelist user data.
- According to the latest amendment (Nov 2022) of Open Sea, if we want to add creator fee on each transfer or purchasing of NFTs, we are required to add the creator fee scenario on our source code. This concept has been added to source code using example given by Open Sea.

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- To solve this issue, we used mapping in place of an array.
- We implemented some private functions, which decreased instruction redundancy.
- We used some new libraries like "@web3modal/react" and "wagmi" to resolve the issue.

Benefits:

- Represent rare and limited-edition items, making them highly desirable for collectors and enthusiasts, driving up their value.
- Verifiable ownership and authenticity for digital assets
- Can be easily bought, sold, and traded on various platforms and marketplaces

Technology Used:

- React JS
- Solidity/Smart Contract
- Apache
- Jenkins
- Git

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