

Evil Ed's Video Store

Experimenting with incentivized content sharing and moderation

What's the plan?

- Users upload video content to the site.
- Uploaded videos become NFTs owned by the uploader.
- Videos can be moderated by other NFT holders.
- Videos can be rented in exchange for tokens.
- Participating in the community is rewarded with tokens.

PHASE 1

PHASE 2

PHASE 3

Collect
Underpants



Profit

Tokenomics

- VHS is an ERC20 token with a total supply of 100,000,000.
- The full supply is minted on contract creation and transferred to the NFT contract.
- Contributing a video earns the uploader 50 VHS.
- Renting a video costs the renter 10 VHS per day, paid to the NFT owner.
- Moderating a video (accepting or rejecting it for rental) earns 5 VHS.

Building blocks

VHSToken.sol – an ERC20 token contract using the openzeppelin template.

VideoNFT.sol – an enumerable ERC721 contract using the openzeppelin template, which holds the full initial token balance of the VHS token. This NFT contract handles NFT minting, rental and moderation processes.

Hardhat to build, deploy and test the contracts.

Vue3 + Vuex + meta-detector ( Zev!) + Bulma for the client-side app.

Express for the server.

Pinata for IPFS pinning.

Issues

- It's quite difficult to keep the list of NFTs in sync with the contract
- Important missing building block: some way to lock content until rented, without giving up decentralisation
- Using a tradable token for payment would make the actual cost of rental variable
- Even worse, the fees for all processes are variable, high, and some have to be paid by the dApp
- Building this app as a dApp feels slow and clunky compared to the web2 equivalent, for instance rentals aren't available instantly

Is any element of this dApp useful?

- Paying moderators using tokens could be useful if the model was more complex. For instance if multiple moderators scored content for quality, deviation from the consensus could be penalised and moderators themselves graded for accuracy and weighted accordingly.
- Allowing NFT owners to make money from holding the assets could be useful. Popular NFTs would earn more rental income which would underpin their real value. This probably makes more sense for real—world assets like Airbnb properties, or intellectual property like royalties for music used in advertising.