# Art Registry into NFT Marketplace

## Project #3

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## NFT Marketplace

#### dApps

The dApps embrace decentralization by using new blockchain technologies, such as smart contracts, so they become robust against these issues. dApps eliminate the need for such a third party since they allow to store value directly inside the app.

#### **ERC-721**

Ethereum Request for Comments (ERC) 721 is a data standard for creating non fungible tokens, meaning each token is unique and cannot be divided or directly exchanged for another ERC-721 token.

#### ABI (Application Binary Interface)

Is a JSON based description on how to convert user actions between their JSON and Binary representations. These file contains contract details that the Web3.py library and Streamlit both of which use for the front end of our dApp will need.

#### URI (Uniform Resource Identifier)

URI identifies a resource and differentiates it from others by using a name, location, or both. URL identifies the web address or location of a unique resource. URI contains components like a scheme, authority, path, and query. URL has similar components to a URI, but its authority consists of a domain name and port.

# **Libraries Used**

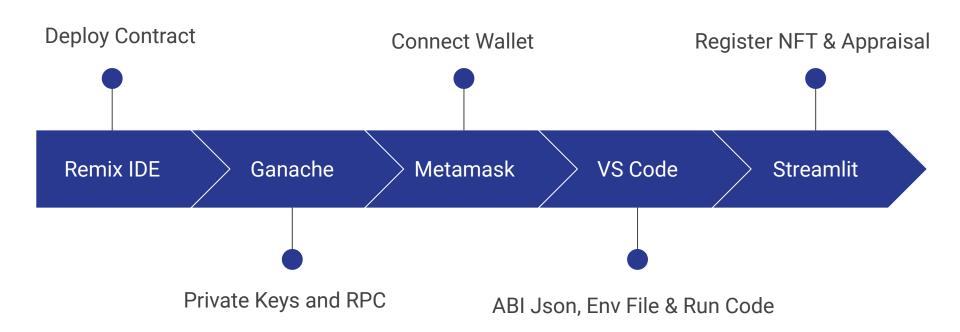
-Path -Web3

-load\_dotenv -streamlit

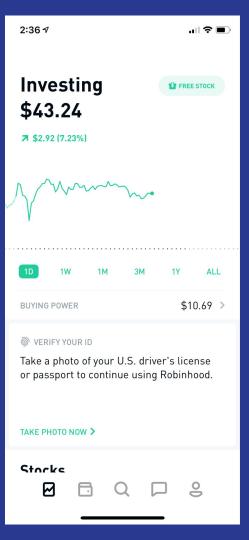
-json -requests

-os -st\_lottie

# Pathway to build a dApp



## NFT I chose to register:



# Challenges (Bug Fixes)

### Challenge 1

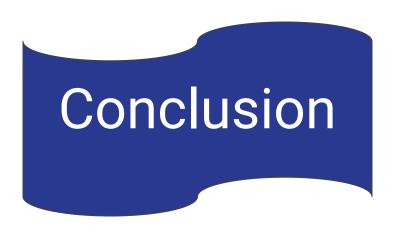
Path for streamlit has to be computer friendly, underscore in order for the streamlit to run successfully

### Challenge 2

Dot env file had quotes but it doesn't need any in order to work

### Challenge 3

The initial appraisal amount has to be without dot or commas



#### **Build:**

Building the NFT Marketplace that facilitates registering an artwork, required to be compliant with the ERC-721 standard, complete with on-chain, Ganache wallet imported to Metamask and several linked token URIs will allow us to connect both the data from the back end of the dApp and a front end to the Solidity smart contract from outside the blockchain.

#### How to value a NFT:

One way you can appraise the value of NFTs is to find out how scarce and difficult it is to own a specific NFT. For example, the first-of-its-kind artwork by a prominent creator in the digital arts business, or an NFT published by a celebrity, are both examples of rarity.



Crypto entrepreneur Sina Estavi bought Twitter founder Jack Dorsey's first-ever tweet as an NFT for \$2.9 million last year. He listed the NFT for sale again at \$48 million last week.

# Credits

Module 22.2.4

www.google.com

https://lottiefiles.com/

https://www.youtube.com/watch?v=TXSOitGoINE

https://github.com/andfanilo/streamlit-lottie

https://www.coindesk.com/business/2022/04/13/jack-dorseys-first-tweet-nft-went-on-sale-for-48m-it-ended-with-a-top-bid-of-just-280/