NFT Marketplace Project

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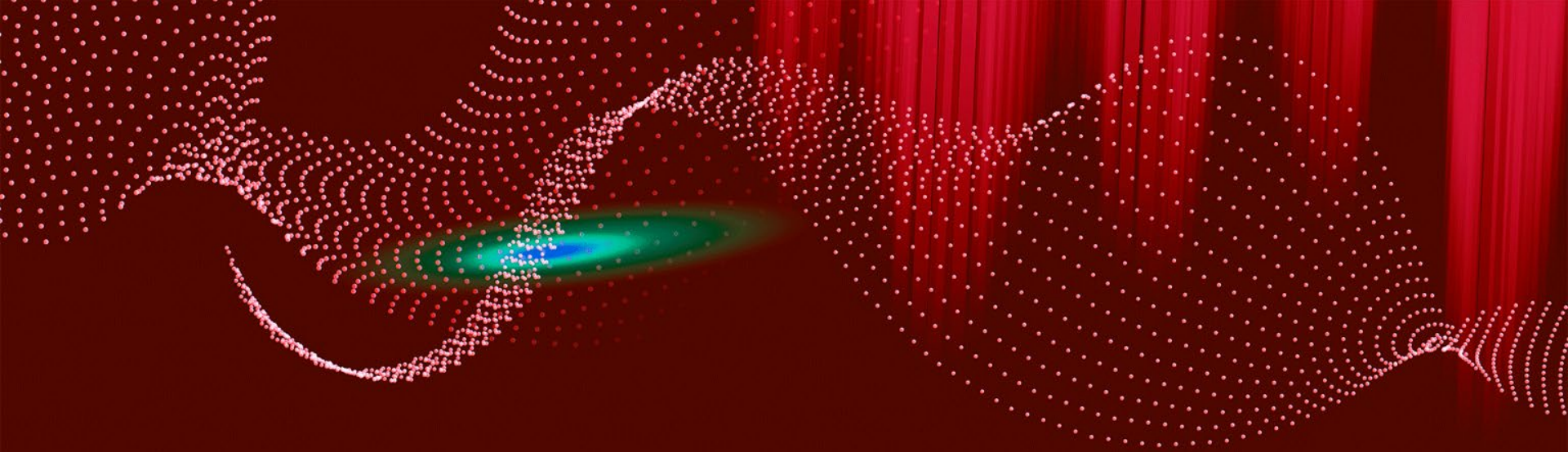


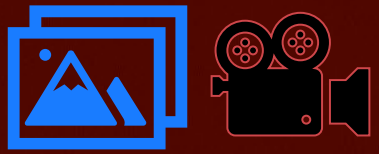
1 Abstract

Overview of our topic

Abstract

- Meeting Point For Trade

- User Friendly Interface



- Digital Ownership

- Blockchain Fortified Exchange

2 Problem Definition and Overview

Project Problem statement and Overview

Problem Definition

Emergence Of Blockchain Technology

Ownership Of Digital Assets

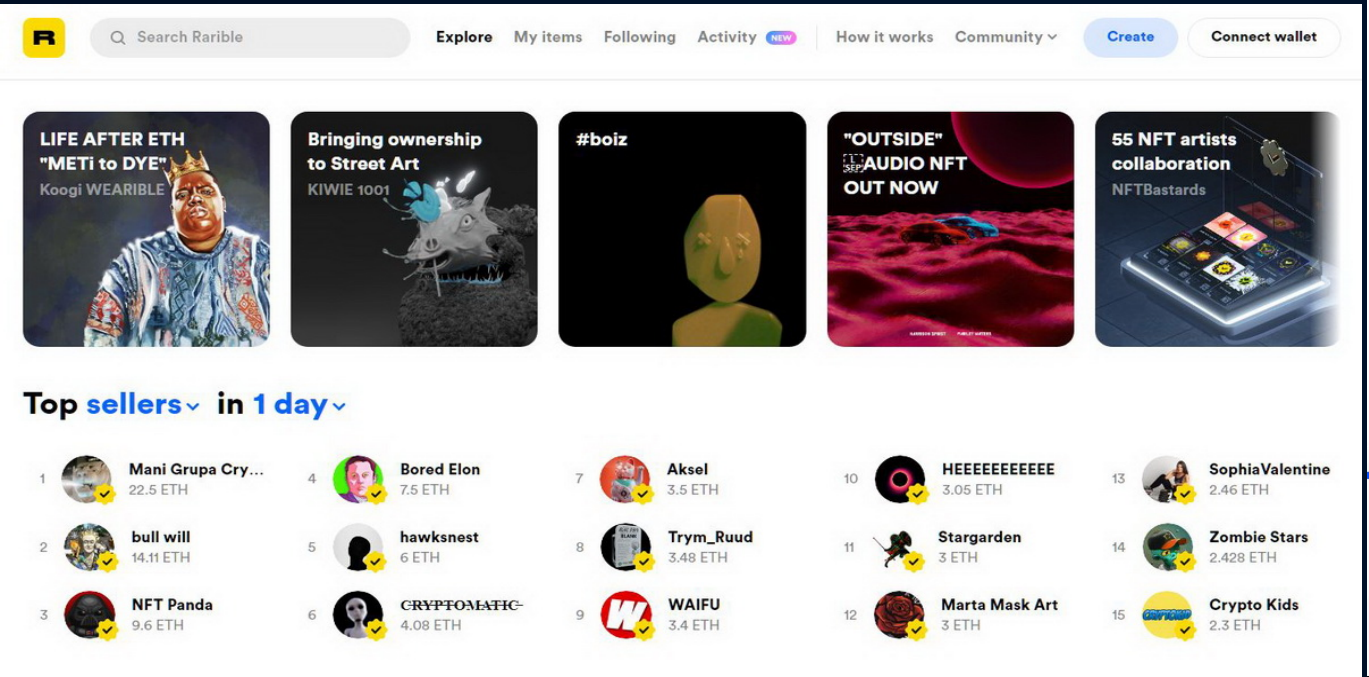
Increase in Value of Unique Tokens

Overview Of Concepts

There are a few questions you may be asking at this point:

- What is a non-fungible token(NFT)?
- Why are NFTs valuable?
- What is a Marketplace?
- What can NFTs be traded for?

Previous Works



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Highest bid 0.116 WETH

Highest bid by 0x2656d...

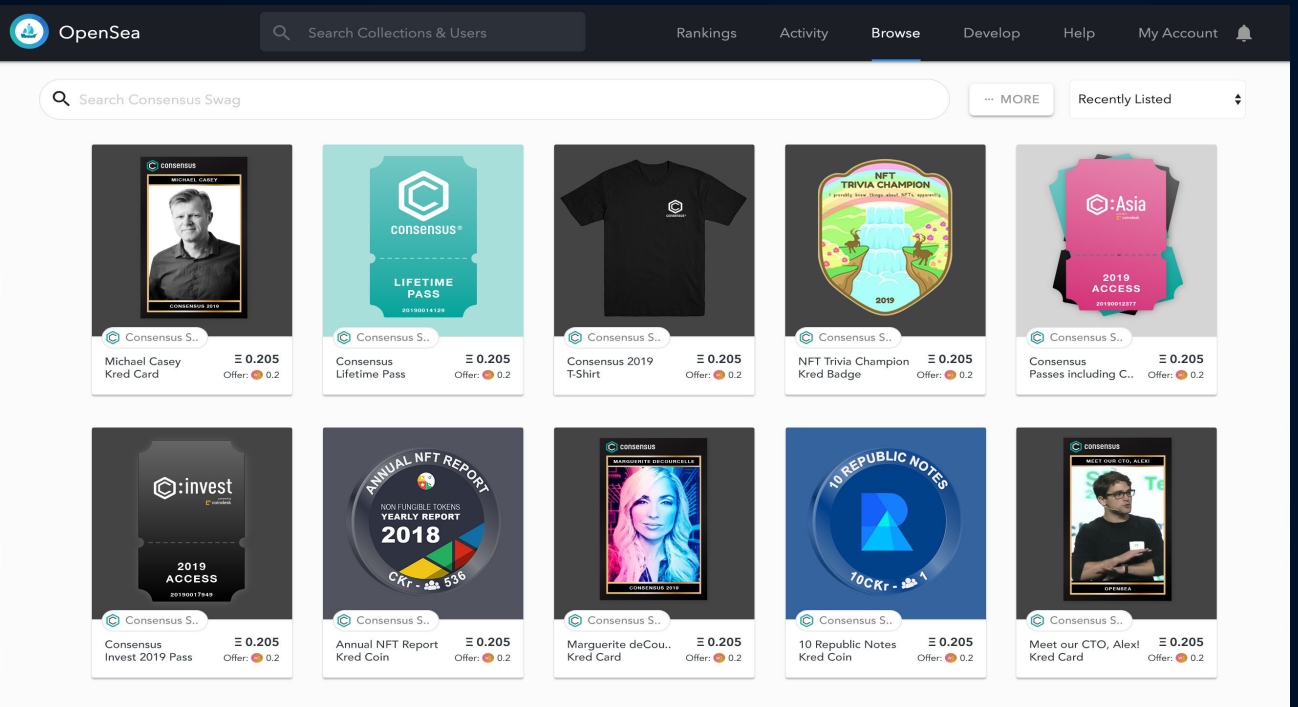
0.116 WETH $473

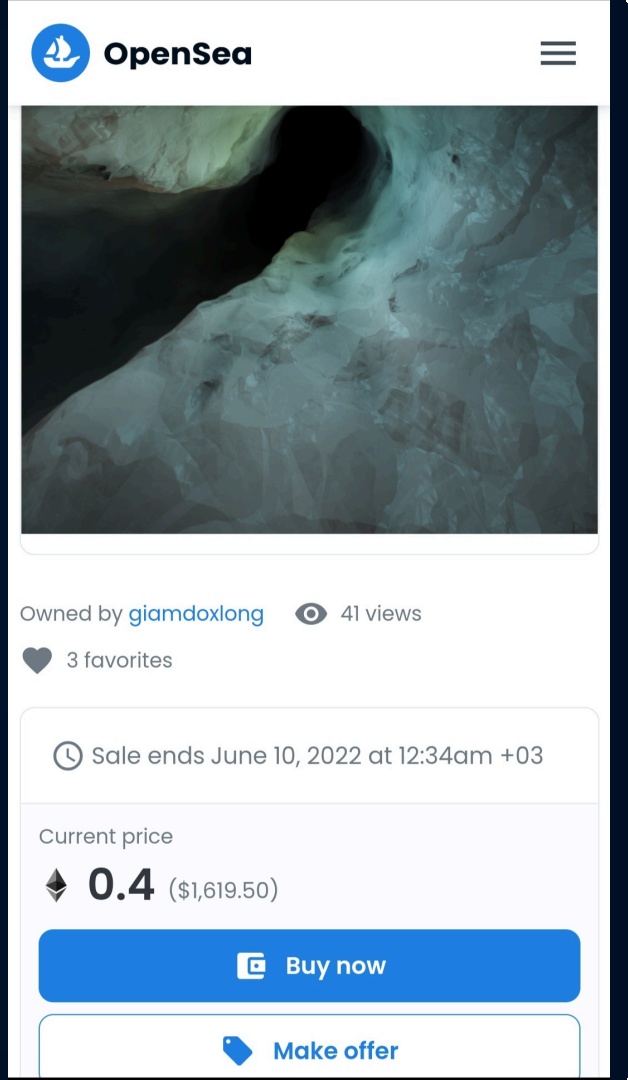
Auction ends in

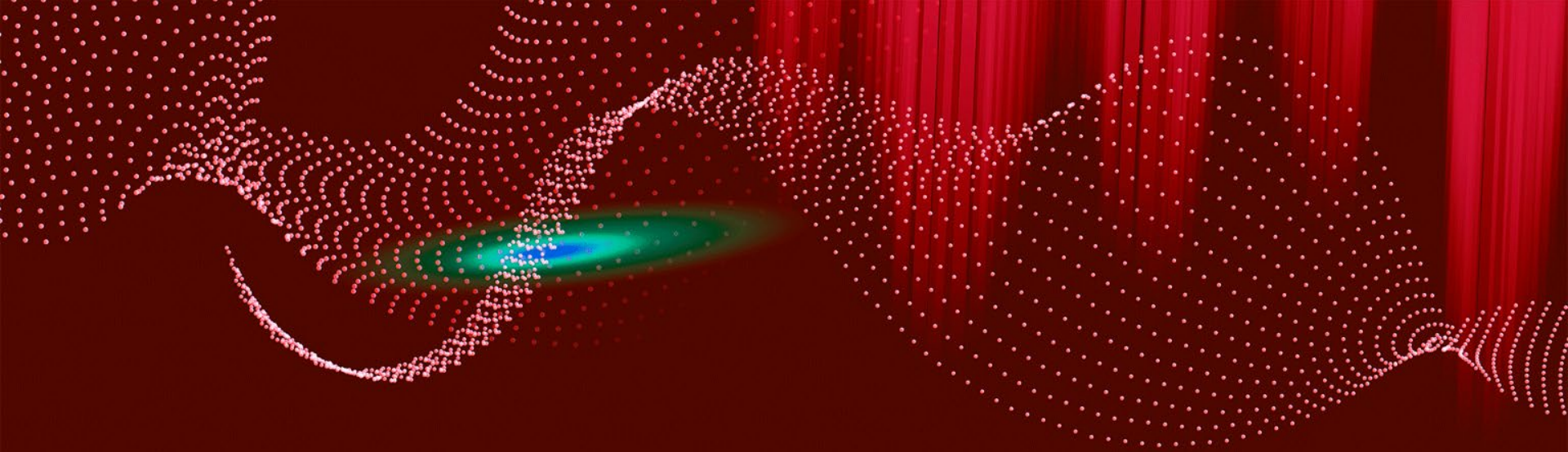
0d 11h 18m 38s

Place a bid

Previous Works







3 Project Solution

Laying out our project solution

NPM
Solidity
HTML5
Truffle
React.js
Moralis
IPFS
Meta-mask
Polygon

NPM

package manager for the JavaScript programming language.

Solidity

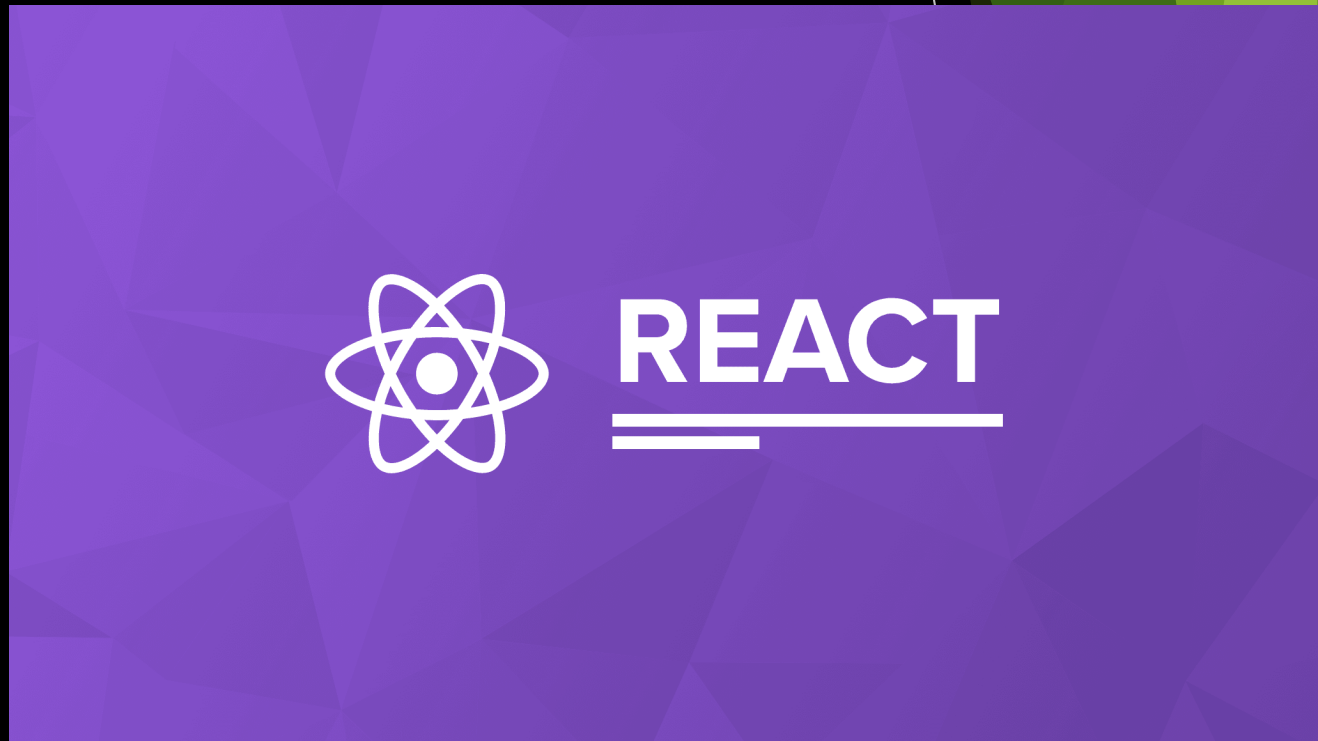
Object Oriented programming language for writing smart contracts.

Truffle

Ethereum development environment.

React.Js

Open source development framework for server-side rendering and generating flexible User Interfaces.



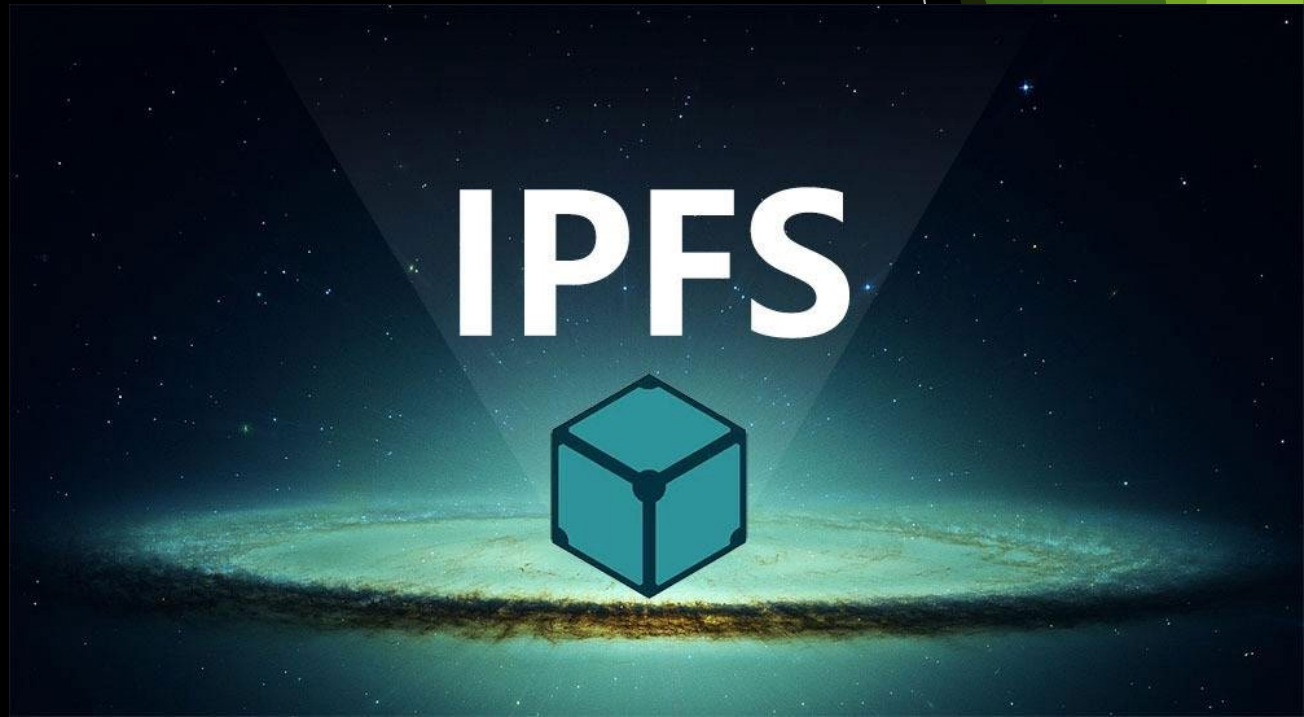
Moralis

Backend service provider
for blockchain projects.

moralis

IPFS(Interplanetary File System)

protocol and P2P network for storing and sharing data in a distributed file system.

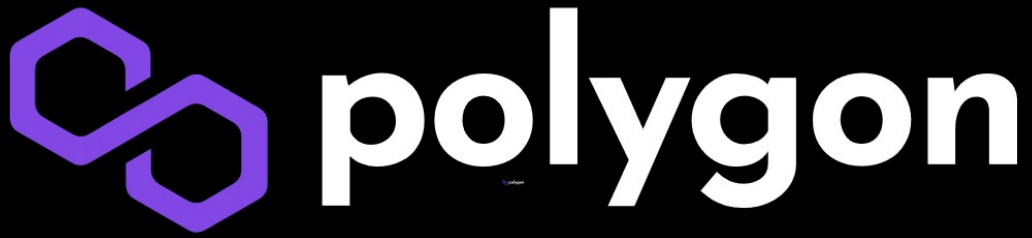


Meta-Mask

software cryptocurrency wallet used to interact with the Ethereum blockchain.

Polygon

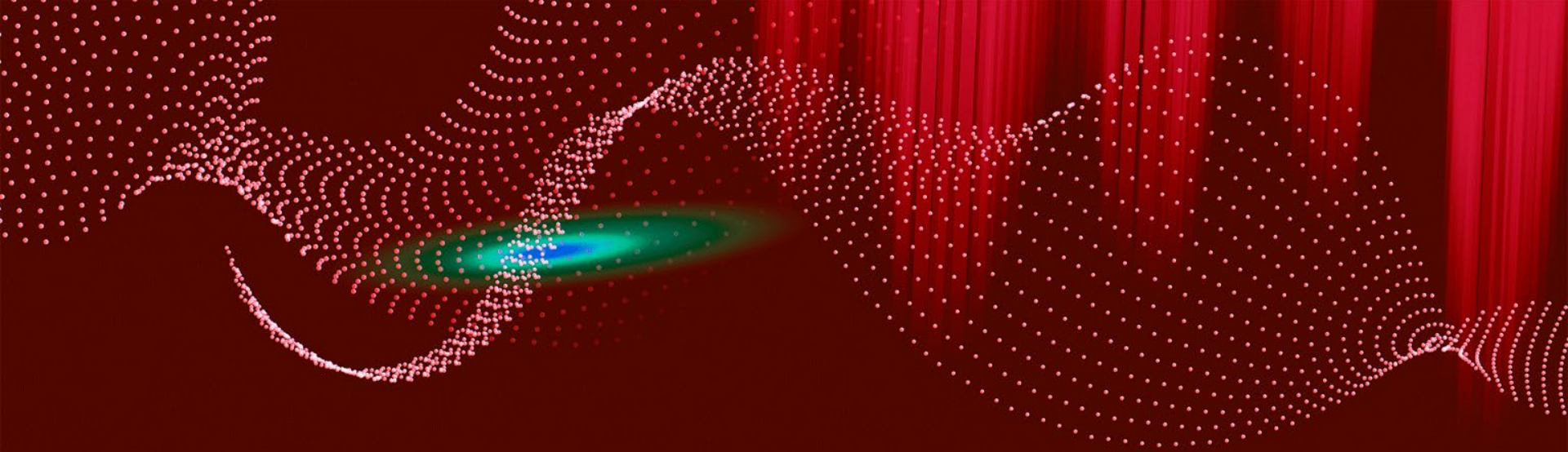
framework for building and connecting Ethereum-compatible blockchain networks.



Vercel

Platform for frontend frameworks and static sites

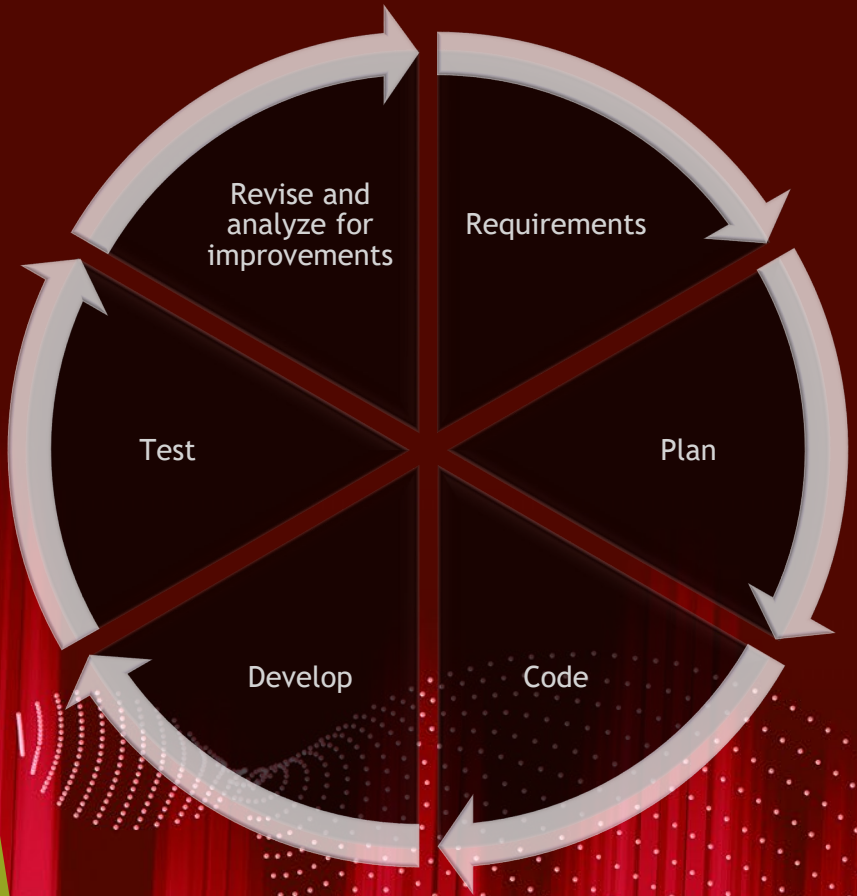
Develop.
Preview.
Ship.

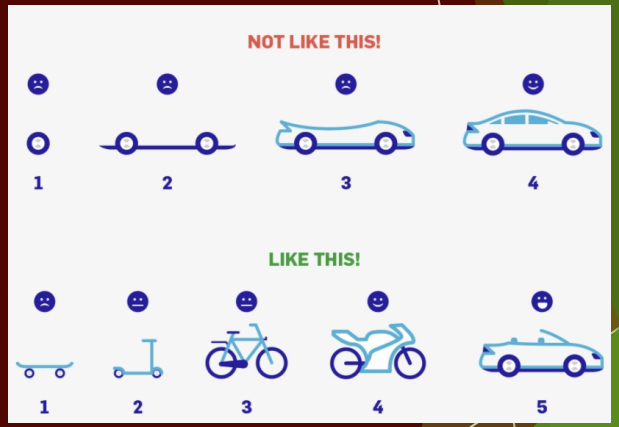


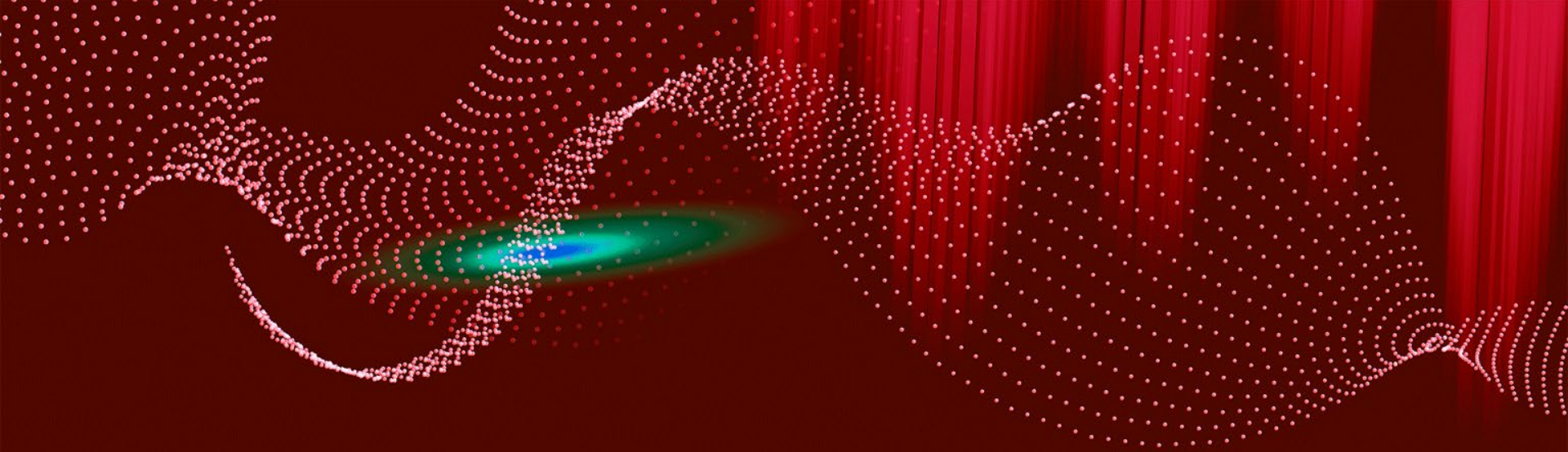
4 Project Methodology

How we did the project

Methodology







5 Risk-Cost Analysis

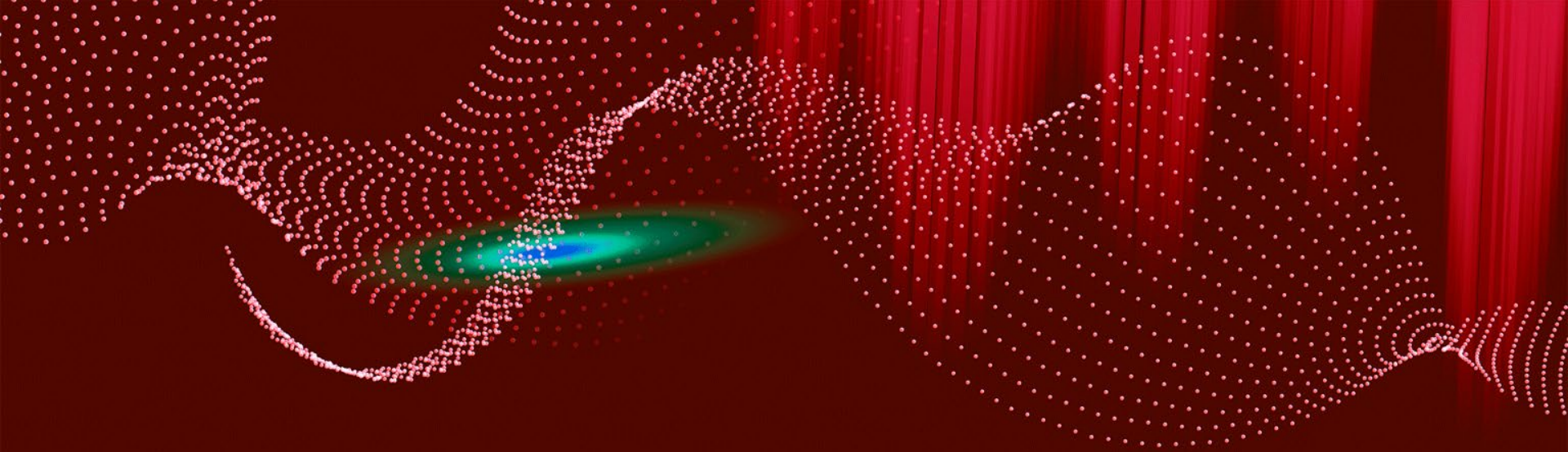
Possible Risks Of Project

Risk analysis

- Risk of Personnel Unavailability
- Unanticipated Vulnerabilities
- Budget Planning
- Fixed Timeline
- Poor Marketing Strategies

Cost Analysis

Item	Cost
Online Courses For Basic Knowledge	$15 per course
Secondary Backup Drive	$20
Open Advertising	$350
Worker Wage(Ahmad)	$60/day
Worker Wage(Baris)	$50/day
Worker Wage(Sadiq)	$60/day
Improving Computer Specs	$100 per student

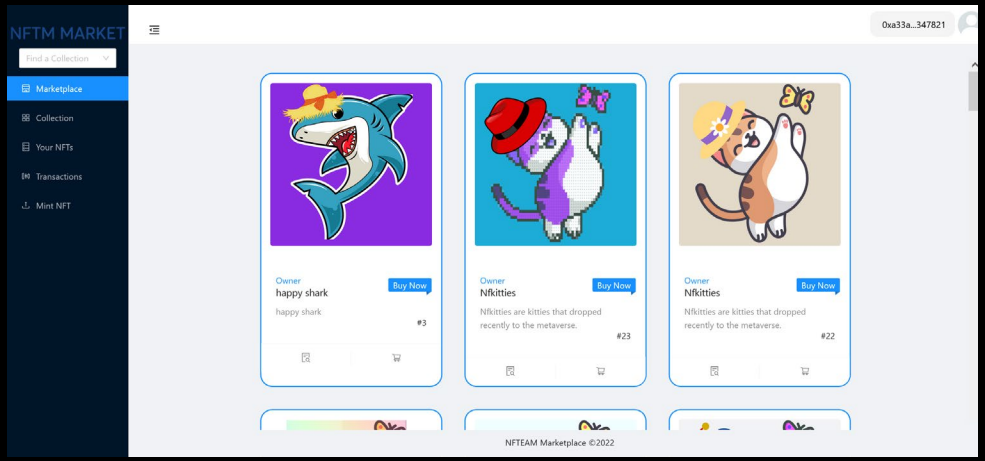


6 Project Details

Project Specifics

Website Overview

- NFT Marketplace
- Upload NFT Image
- Mint NFT
- List NFT for sale
- View Wallet NFTs
- Transfer NFTs
- Delist NFTs
- View Marketplace Transactions



Gizlilik Sınıflandırması : Genel Paylaşım

Standardization

- ERC 721 Standard

- The IET standards as relating to cyber-security
  - Principle 5: Culture
  - Principle 6: Competence
  - Principle 11: Risk Assessment
  - Principle 13: Risk Treatment

Problems Encountered

Limited Resources

Time Management

Exposure

Gizlilik Sınıflandırması : Genel Paylaşım

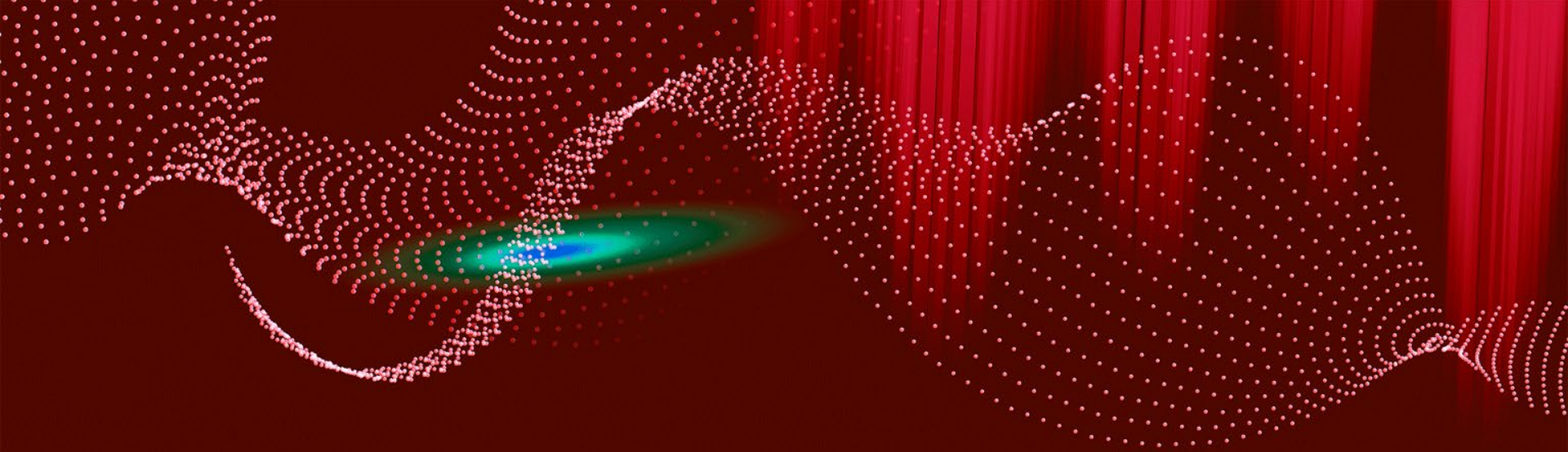
Contributions

Ahmad Youssef	**Front End Development, Back End Solidity Development, Server Maintenance, Database Management, Contract testing and Deployment.**
Baris Tonbul	Backend Solidity Development, Front-end React Component Testing, Front-end Component debugging, Meeting Coordination.
Sadiq Tijjani	Front End Development, User Interface Design, Report Writing, Presentation Preparation, Document writing and walk-throughs for project supervisor.

Potential Improvements

- Bidding Auction System
- Rarity and Popularity ranking system
- Adding more UI components like dark-mode
- Cross chain capability

Gizlilik Sınıflandırması : Genel Paylaşım



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Project Demo

Showing the project

RESOURCES AND EXTRA READING

- https://www.ibm.com/topics/what-is-blockchain
- https://www.nbcnews.com/tech/tech-news/nft-boom-digital-collectibles-rcna430
- https://www.securities.io/non-fungible-tokens-nfts-continue-to-reshape-the-blockchain-market/
- http://satoshinakamoto.me/bitcoin.pdf
- https://nft-team-market.vercel.app/MarketPlace

END OF PRESENTATION

Thank you for your attention!