

NFT Marketplace Project

Supervised by Dr. Hakan
Ayrar

NFTEAM

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1

Abstract

Overview of our topic

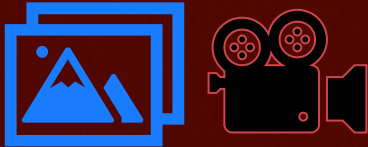
Abstract



- 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



NFT



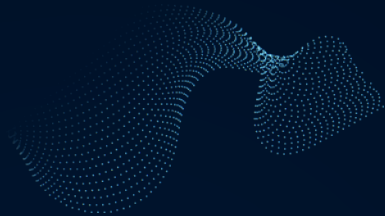
Overview Of Concepts

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



Q Search Rarible

Explore

My items

Following

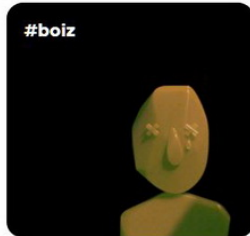
Activity

How it works
















Community

Create

Connect wallet



Top sellers in 1 day

- | | | | | |
|---|--|--|---|---|
| 1  Mani Grupa Cry...
22.5 ETH | 4  Bored Elon
7.5 ETH | 7  Aksel
3.5 ETH | 10  HEEEEEEEEEEE
3.05 ETH | 13  SophiaValentine
2.46 ETH |
| 2  bull will
14.11 ETH | 5  hawksnest
6 ETH | 8  Trym_Ruud
3.48 ETH | 11  Stargarden
3 ETH | 14  Zombie Stars
2.428 ETH |
| 3  NFT Panda
9.6 ETH | 6  CRYPTOMATIC
4.08 ETH | 9  WAIFU
3.4 ETH | 12  Marta Mask Art
3 ETH | 15  Crypto Kids
2.3 ETH |



//BM057_TRYPO
PH0B1AN

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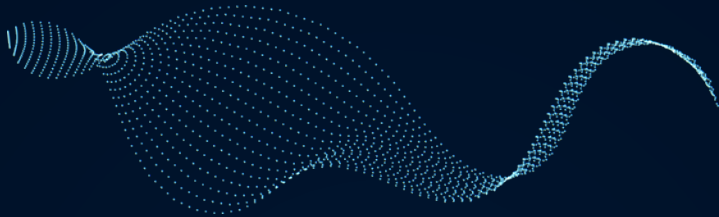
Highest bid 0.116 WETH

Highest bid by 0x2656d...
0.116 WETH \$473

Auction ends in
0d 11h 18m 38s

Place a bid

Previous Works



OpenSea

Search Collections & Users

RankingsActivityBrowseDevelopHelpMy Account

Search Consensus Swag

MORERecently Listed

Consensus S...
Michael Casey
Kred Card
0.205
Offer: 0.2

Consensus S...
Consensus
Lifetime Pass
0.205
Offer: 0.2

Consensus S...
Consensus 2019
T-Shirt
0.205
Offer: 0.2

Consensus S...
NFT Trivia Champion
Kred Badge
0.205
Offer: 0.2

Consensus S...
Consensus
Passes including C...
0.205
Offer: 0.2

Consensus S...
Consensus
Invest 2019 Pass
0.205
Offer: 0.2

Consensus S...
Annual NFT Report
Kred Coin
0.205
Offer: 0.2

Consensus S...
Marguerite deCou...
Kred Card
0.205
Offer: 0.2

Consensus S...
10 Republic Notes
Kred Coin
0.205
Offer: 0.2

Consensus S...
Meet our CTO, Alex...
Kred Card
0.205
Offer: 0.2

OpenSea

Owned by [giamdolong](#) 41 views

3 favorites

Sale ends June 10, 2022 at 12:34am +03

Current price

0.4 (\$1,619.50)

Buy now

Make offer



3

Project Solution

Laying out our project solution



Solution Design

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.



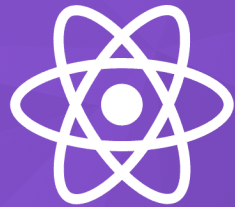
Truffle

Ethereum development
environment.



React.Js

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



REACT

Moralis

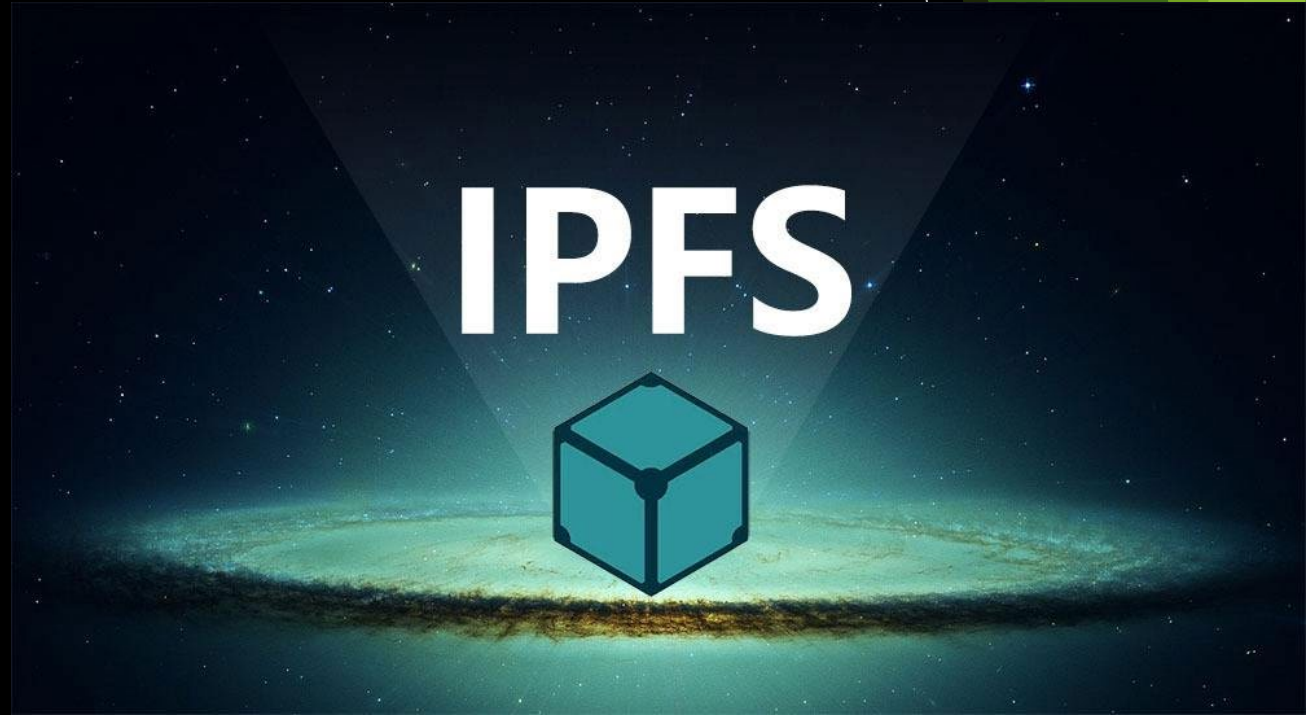
Backend service provider
for blockchain projects.



moralis

IPFS(Interplanetary File System)

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



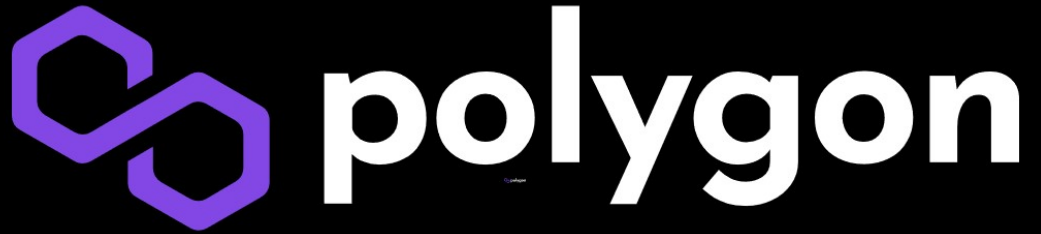
Meta-Mask

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.



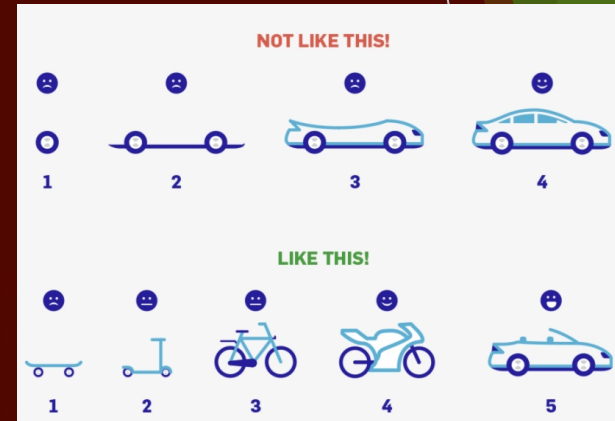
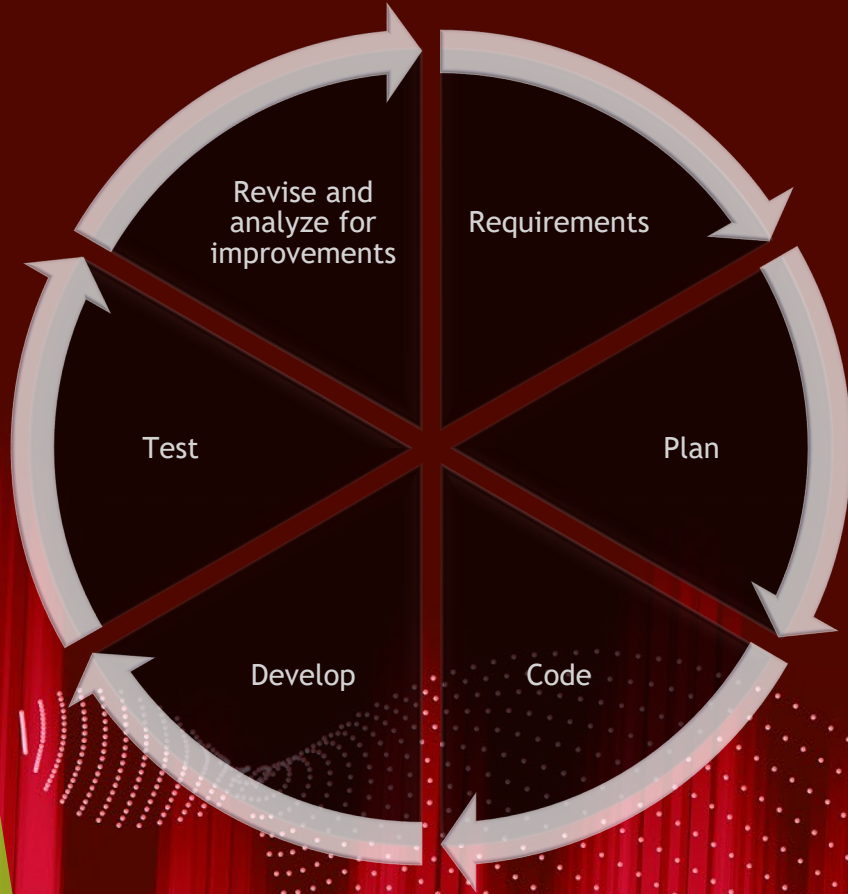


4

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



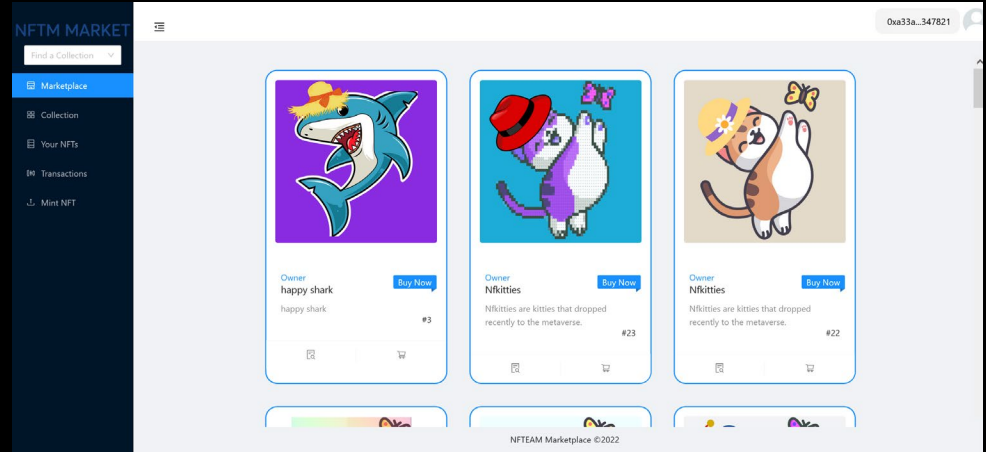
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Project Details

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



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

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



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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!