

SHRI RAMDEOBABA COLLEGE OF ENGINEERING AND MANAGEMENT, NAGPUR

Department of Information Technology Sem- VI (2022-23)

Project Seminar on

NFT MarketPlace ApnaMarket.NFT

BY

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Introduction

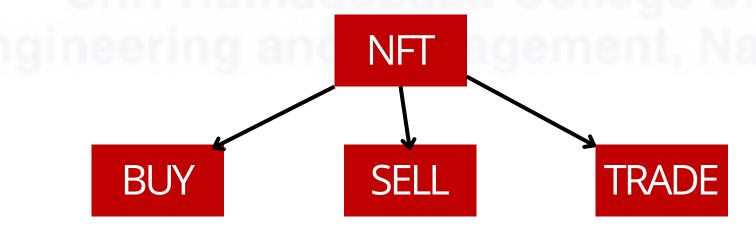
- NFT or "Non-Fungible Token" is a non-fungible asset that is unique and cannot be split.
- Non-Fungible "Unique" and "not interchangeable"
- NFT can be connected to real-world objects
- NFT can have only one official owner
- The ownership can be sold to another person only then it will be reflected on Blockchain





Introduction

- The foundation of our idea is the usage of Blockchain and NFT technology for trade
- Trade Art "Music" "Graphic" "Painting"
- It providesa artist a solution to earn money equity in term of streaming royalty



Literature Review







Literature Review

- Blockchain is a database that is consensually shared, replicated, and synchronized.
- Blockchain differs from centralized repositories in that it decentralizes the source of trust.
- The bank is not required as a trusted third party. "Conscienc"
- consensus mechanisms
 - proof-of-work (PoW)
 - proof-of-stake (PoS)
- Consensus mechanisms play an essential part of securing information by encrypting it and using automated group verification.

Literature Review



- Non-Fungible Token or NFT is a non-fungible asset that is unique and cannot be split or non interchangeable.
- NFT can be connected to real-world objects. This enables authentication and tracking of the asset.
- NFT provides the person with full ownership of that unique asset verified through Ethereum blockchain.
- NFTs are different from Cryptocurrency as cryptocurrency is fungible while NFTs are not.

Technology

- Polygon Framework: Polygon is a decentralized Ethereum scaling platform that enables developers to build scalable user-friendly dApps with low transaction fees without ever sacrificing on security.
- Hardhat: It is a Solidity development environment for our DApp.
- Solidity: It is used for writing smart contracts for NFTs.
- **Metamask**: It is a software cryptocurrency wallet that helps us interact with the Ethereum blockchain and make transactions.

Existing NFT Marketplaces

- **OpenSea** is the first and largest peer-to-peer marketplace for crypto goods, which include collectibles, gaming items, and other virtual goods backed by a blockchain.
- APENFT aims to build a bridge between top-notch artists and blockchain and support the growth of native crypto NFT artists.
- The Bored Ape Yacht Club is a collection of 10,000 unique Bored Ape NFTs that are located on the Ethereum blockchain.

Methodology

Software Requirements:-

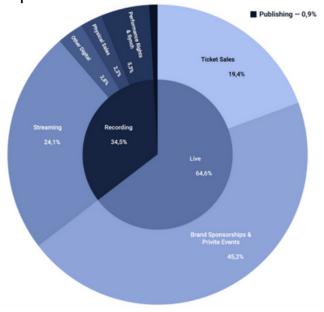
- Metamask wallet browser extension
- Polygon framework
- Solidity language for writing Smart Contracts
- Next.js and Tailwind CSS (For Frontend part)
- IPFS (For file uploads and downloads)
- Hardhat (Dapp Development environment)
- Ethers.js (For interaction with Smart Contracts)
- ERC721 Smart Contracts standard

Advantages of NFTs

- Unique Ownership
- Verifiable Authenticity
- Direct Artist Compensation
- Traceable Ownership
- Accessibility
- Increased Value
- Transparency

What makes our Application unique?

- Fantiger Is India's 1st Music NFT MARKETPLACE and Stands 1st as Top Indian NFT Project.
- Fantiger Works for 5 period of time only whereas we will keep it for x period of time which is upto the artist's or until the one is holding the NFT on platform. Fantiger works on INR/USD holding with polygon Blockchain whereas we will have. Direct crypto process as we can see it is more universally accepted.



Indian Music Industry Revenue by Source, 2018

Current Status

 We have learnt about the basics of Blockchain technology, NFTs, Smart contracts and read some white papers of the existing NFT marketplaces like APE NFT, BAYC, NFTfy.

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Thank You...

