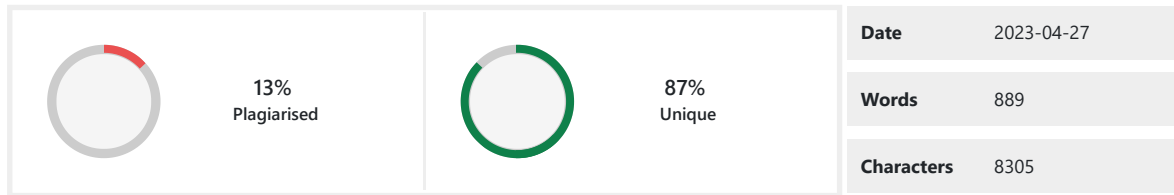


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-A PROJECT REPORT  
on  
"NFT Marketplace"

Submitted to

KIIT Deemed to be University

**In Partial Fulfillment of the Requirement for the Award of**

BACHELOR'S DEGREE IN

COMPUTER SCIENCE AND ENGINEERING

BY

Aditya Pandey  
Shivam Atulya  
Shreyansh Agarwal  
Ankush Roy Chowdhury  
Gaurav Kumar Singh

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UNDER THE GUIDANCE OF

KUNAL ANAND

SCHOOL OF COMPUTER ENGINEERING

KALINGA INSTITUTE OF INDUSTRIAL TECHNOLOGY

BHUBANESWAR, ODISHA - 751024

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KIIT Deemed to be University

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#### CERTIFICATE

This is certify that the project entitled

“NFT Marketplace ”

submitted by

Aditya Pandey  
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**is a record of bonafide work carried out by them, in the partial fulfilment of the requirement for the award of Degree of Bachelor of Engineering (Computer Science & Engineering)**

at KIIT Deemed to be university, Bhubaneswar. This work is done during year 2022-2023, under our guidance.

Date: 03 /05 /2023

(Kunal Anand)  
Project Guide

#### Acknowledgements

We are profoundly grateful to KUNAL ANAND of School of Computer Science for his expert guidance and continuous encouragement throughout to see that this project meets its target since its commencement to its completion.

Aditya Pandey  
Shivam Atulya  
Shreyansh Agarwal  
Ankush Roy Chowdhury  
Gaurav Kumar Singh

## ABSTRACT

An NFT (Non-Fungible Token) Marketplace is a platform where users can buy, sell, and trade unique digital assets that are represented as NFTs. These digital assets can include art, collectibles, in-game items, domain names, and more. Each NFT is unique and cannot be replaced or exchanged on a one-to-one basis with another NFT. The need for an NFT Marketplace arises from the increasing demand and popularity of non-fungible tokens (NFTs) in various sectors such as art, gaming, collectibles, and more.

NFT Marketplaces play a crucial role in the growing ecosystem of non-fungible tokens by providing a platform for creators to monetize their work, collectors to access unique digital assets, and fostering a global community around digital art and collectibles.

Keywords : NFT (Non-Fungible Token), Digital Ownership, Digital Assets, Collectibles, Marketplace.

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a powerful platform that enables creators to mint, showcase, and sell their unique digital assets while providing collectors with a secure and user-friendly environment to discover, purchase, and trade NFTs. By leveraging blockchain technology, NFT marketplaces ensure the authenticity, provenance, and ownership of digital assets.

Developing an NFT marketplace requires careful planning, design, implementation, and adherence to coding standards. It's essential to focus on providing a seamless user experience by incorporating responsive design principles, clear navigation structures, and visually appealing interfaces. Additionally, ensuring the security of transactions and user data is of utmost importance.

## 6.2 Future Scope

The future scope of this project will be testing this project in different test networks such as Ethereum mainnet, Sepolia test network etc. Currently we have used goerli testnet ethers for testing smart contracts and deploying them, in future we can integrate them with real and different types of cryptocurrencies which are well within the guidelines prescribed by the government. Currently the project is running on localhost, in future we can deploy it on netlify, vercel or render.

The future scope for NFT marketplace projects is rich with possibilities for innovation and growth. By staying informed about emerging trends and technologies in the digital asset space, you can position your NFT marketplace project for long-term success.

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- [6] Chai Documentation: <https://www.chaijs.com/>

## NFT Marketplace

ADITYA PANDEY  
1905223

**Abstract:** The NFT marketplace project aims to develop a platform for creators to mint, showcase, and sell unique digital assets while providing collectors a secure and user-friendly environment for discovering, purchasing, and trading non-fungible tokens (NFTs). Key features include user authentication, minting NFTs, browsing and discovery options, secure transactions using smart contracts, auctions, royalties, and personalized user dashboards.

**Individual contribution:** I have contributed by installing Package Configuration environment and developed the backend of the project. Some of the work contributed are Cancel market listing and resell Market Listing features in the project.

Individual contribution to project report preparation: I have contributed in making the UML diagram for the report. I gave my contribution in chapters 2, 3, 4, 5 & 6..

Individual contribution for project presentation and demonstration: The presentation was built in unison in a group and everyone contributed equally in this part. I was responsible for demonstration of backend working of the project.

**Full Signature of Supervisor: Full signature of the student:**

NFT Marketplace

SHIVAM ATULYA  
1905247

Abstract: The NFT marketplace project aims to develop a platform for creators to mint, showcase, and sell unique digital assets while providing collectors a secure and user-friendly environment for discovering, purchasing, and trading non-fungible tokens (NFTs). Key features include user authentication,

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