

Dec Cent NFT marketplace

Software Requirements Specification

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listen and provide their valuable feedback*

Introduction

What Is a Non-Fungible Token (NFT)?

non-fungible token (NFT) is a non-interchangeable unit of data stored on a block chain with unique identification codes and metadata that distinguish them from each other it is a form of digital asset that can be sold and traded. Types of NFT data units may be associated with digital files such as photos, videos, and audio. Because each token is uniquely identifiable, NFTs differ from most cryptocurrencies, such as Bitcoin, which are fungible.

What Is a Non-Fungible Token (NFT)?

Non-fungible tokens (NFTs) are cryptographic assets on a blockchain with unique identification codes and metadata that distinguish them from each other.

Unlike cryptocurrencies, they cannot be traded or exchanged at equivalency. This differs from fungible tokens like cryptocurrencies, which are identical to each other and, therefore, can serve as a medium for commercial transactions

NFT ledgers claim to provide a public certificate of authenticity or proof of ownership, but the

legal rights conveyed by an NFT can be uncertain. NFTs do not restrict the sharing or copying of the underlying digital files, do not necessarily convey the copyright of the digital files, and do not prevent the creation of NFTs with identical associated files.

- *NFTs are unique cryptographic tokens that exist on a blockchain and cannot be replicated.*
- *NFTs can represent real-world items like artwork and real estate.*
- *"Tokenizing" these real-world tangible assets makes buying, selling, and trading them more efficient while reducing the probability of fraud.*
- *NFTs can also function to represent individuals' identities, property rights, and more.*

The distinct construction of each NFT has the potential for several use cases. For example, they are an ideal vehicle to digitally represent physical assets like real estate and artwork. Because they are based on blockchains, NFTs can also work to remove intermediaries and connect artists with audiences or for identity management. NFTs can remove intermediaries, simplify transactions, and create new markets.

- *In early March 2021, a group of NFTs*

1.1 PURPOSE

The purpose of the Dec Cent NFT marketplace project is to provide a user-friendly and accessible NFT marketplace for Indian creators and collectors. The marketplace will enable users to discover, purchase, and sell NFTs in a secure and efficient manner.

Specifically, the project aims to:

Provide a platform for Indian creators to showcase and sell their NFTs.

Make it easy for Indian collectors to discover and purchase NFTs.

Offer a secure and user-friendly experience for all users.

Promote the adoption of NFTs in India.

The project is also designed to be educational, providing users with resources to learn more about NFTs and how to use the marketplace.

Overall, the Dec Cent NFT marketplace project aims to create a vibrant and accessible NFT ecosystem for India.

1.2 SCOPE

The scope of the Dec Cent NFT marketplace project includes the following:

Development of a web-based NFT marketplace: The marketplace will be developed using HTML, CSS, and JavaScript.

It will be designed to be user-friendly and accessible to both creators and collectors.

Integration with popular NFT wallets: The marketplace will integrate with popular NFT wallets, such as MetaMask and Coinbase Wallet. This will make it easy for users to connect their wallets and purchase NFTs.

Support for multiple blockchains: The marketplace will support multiple blockchains, such as Ethereum, Polygon, and Solana. This

will give users more options when choosing which blockchain to use to mint and sell their NFTs.

Educational resources: The marketplace will provide educational resources to help users learn more about NFTs and how to use the marketplace.

The project will also include a number of other features, such as:

The ability to discover NFTs by category, creator, and price.

The ability to filter and sort NFTs by criteria such as rarity, popularity, and price.

The ability to create and manage NFT collections.

The ability to bid on and purchase NFTs.

The ability to sell NFTs at a fixed price or through an auction.

The ability to withdraw funds from the marketplace.

The Dec Cent NFT marketplace project is ambitious in scope, but it has the potential to make a significant impact on the NFT ecosystem in India. By providing a user-friendly and accessible platform for creators and collectors, the project can help to promote the adoption of NFTs in India and create a vibrant NFT community.

1.3 Definitions, Acronyms, and Abbreviations

Definitions:

NFT (non-fungible token): A unique digital asset that is stored on a blockchain.

NFTs can represent a wide variety of things, such as art, collectibles, and gaming items.

Blockchain: A distributed ledger technology that records transactions in a secure and transparent manner.

Wallet: A digital wallet that stores cryptocurrencies and NFTs.
Minting: The process of creating an NFT and storing it on a blockchain.
Gas fee: A fee that is paid to miners for processing transactions on a blockchain.
Auction: A type of sale where the highest bidder wins the item.
Fixed price sale: A type of sale where the item is sold at a set price.

Acronyms and Abbreviations:

NFT: Non-fungible token
ETH: Ethereum
MATIC: Polygon
SOL: Solana
ERC-721: A standard for creating and trading NFTs on Ethereum
ERC-1155: A standard for creating and trading multiple types of NFTs in a single transaction
EIP-2981: A standard for implementing royalty payments for NFT creators
KYC: Know your customer
AML: Anti-money laundering
CEX: Centralized exchange
DEX: Decentralized exchange

1.5 References

Here is a list of references that you may find useful for your Dec Cent NFT marketplace project:

Introduction to NFTs:
<https://campus.w3schools.com/>
Blockchain basics:
<https://www.tutorialspoint.com/blockchain/index.htm>
NFT wallets:
<https://m.youtube.com/watch?v=OTbe5i3dyS4>
NFT marketplaces: <https://nonfungible.com/>
NFT development:
[https://tokenminds.co/blog/nft-](https://tokenminds.co/blog/nft-development/nft-development-guide)

[development/nft-development-guide](https://tokenminds.co/blog/nft-development/nft-development-guide)
NFT security: <https://nftnow.com/guides/are-nfts-securities-a-guide-to-global-policies/>
You may also want to consider referencing specific NFT marketplaces, such as OpenSea, Rarible, and Foundation. These marketplaces have a wealth of documentation and resources that can be helpful for developers and users.

1.6 Overview

The Dec Cent NFT marketplace project is a web-based platform that will enable Indian creators and collectors to discover, purchase, and sell NFTs in a secure and efficient manner. The marketplace will support multiple blockchains, such as Ethereum, Polygon, and Solana, and will offer a variety of features to make it easy for users to participate in the NFT market.

The project aims to promote the adoption of NFTs in India and create a vibrant NFT community. By providing a user-friendly and accessible platform for creators and collectors, the Dec Cent NFT marketplace project can help to make NFTs more mainstream and accessible to everyone.

Here is a more detailed overview of the project scope:

Development of a web-based NFT marketplace: The marketplace will be developed using HTML, CSS, and JavaScript. It will be designed to be user-friendly and accessible to both creators and collectors.
Integration with popular NFT wallets: The marketplace will integrate with popular NFT wallets, such as MetaMask and Coinbase Wallet. This will make it easy for users to connect their wallets and purchase NFTs.
Support for multiple blockchains: The marketplace will support multiple blockchains,

such as Ethereum, Polygon, and Solana. This will give users more options when choosing which blockchain to use to mint and sell their NFTs.

Educational resources: The marketplace will provide educational resources to help users learn more about NFTs and how to use the marketplace.

In addition to these core features, the Dec Cent NFT marketplace project will also include a number of other features, such as:

The ability to discover NFTs by category, creator, and price.

The ability to filter and sort NFTs by criteria such as rarity, popularity, and price.

The ability to create and manage NFT collections.

The ability to bid on and purchase NFTs.

The ability to sell NFTs at a fixed price or through an auction.

The ability to withdraw funds from the marketplace.

The Dec Cent NFT marketplace project is still in the early stages of development, but it has the potential to make a significant impact on the NFT ecosystem in India. By providing a user-friendly and accessible platform for creators and collectors, the project can help to promote the adoption of NFTs in India and create a vibrant NFT community

1. General Description

The Dec Cent NFT Marketplace is a web-based platform that allows users to discover, purchase, and sell non-fungible tokens (NFTs). It is designed to be user-friendly and accessible to both creators and collectors, and it supports multiple blockchains, including Ethereum, Polygon, and Solana.

The marketplace offers a variety of features to make it easy for users to participate in the NFT market. Users can browse NFTs by category, creator, and price. They can also filter and sort NFTs by criteria such as rarity, popularity, and price. Creators can create and manage their own NFT collections, and they can set their own prices for their NFTs. Collectors can bid on and purchase NFTs, and they can also sell their NFTs at a fixed price or through an auction.

The Dec Cent NFT Marketplace is also committed to education. The platform provides a variety of resources to help users learn more about NFTs and how to use the marketplace. These resources include blog posts, articles, and videos.

The Dec Cent NFT Marketplace is a valuable resource for both creators and collectors of NFTs in India. It provides a user-friendly and accessible platform for users to participate in the NFT market, and it is committed to educating users about NFTs.

Here are some of the key benefits of using the Dec Cent NFT Marketplace:

Accessibility: The marketplace is designed to be accessible to both creators and collectors, regardless of their technical expertise.

Security: The marketplace uses industry-standard security measures to protect users' NFTs and funds.

Transparency: All transactions on the

marketplace are recorded on a blockchain, which ensures transparency and accountability.

Choice: The marketplace supports multiple blockchains, giving users more options when choosing which blockchain to use to mint and sell their NFTs.

Education: The marketplace provides a variety of educational resources to help users learn more about NFTs and how to use the marketplace.

Overall, the Dec Cent NFT Marketplace is a valuable resource for anyone interested in NFTs in India. It is a user-friendly and accessible platform that offers a variety of features and benefits for both creators and collectors.

1.1 Product Perspective

Product Perspective of the Dec Cent NFT Marketplace

The Dec Cent NFT Marketplace is a product that solves the problem of accessibility and education in the Indian NFT market. It is a user-friendly and accessible platform that offers a variety of features and benefits for both creators and collectors.

From a product perspective, the Dec Cent NFT Marketplace can be seen as a platform that enables users to:

Discover: Users can browse NFTs by category, creator, and price. They can also filter and sort NFTs by criteria such as rarity, popularity, and price.

Purchase: Users can bid on and purchase NFTs using their preferred NFT wallet.

Sell: Creators can create and manage their own NFT collections, and they can set their own prices for their NFTs. Collectors can sell their NFTs at a fixed price or through an auction.

Learn: The marketplace provides a variety of educational resources to help users learn more about NFTs and how to use the marketplace.

The Dec Cent NFT Marketplace is designed to be a one-stop shop for all things NFTs in India. It is a platform where users can discover, purchase, sell, and learn about NFTs.

Target Audience

The target audience for the Dec Cent NFT Marketplace is:

Creators: Artists, musicians, gamers, and other creators who want to mint and sell their NFTs.

Collectors: Individuals who want to purchase and collect NFTs.

Investors: Individuals who want to invest in NFTs as a new asset class.

Value Proposition

The value proposition of the Dec Cent NFT Marketplace is that it provides a user-friendly and accessible platform for both creators and collectors of NFTs in India. The marketplace offers a variety of features and benefits, including:

Accessibility: The marketplace is designed to be accessible to both creators and collectors, regardless of their technical expertise.

Security: The marketplace uses industry-standard security measures to protect users' NFTs and funds.

Transparency: All transactions on the marketplace are recorded on a blockchain, which ensures transparency and accountability.

Choice: The marketplace supports multiple blockchains, giving users more options when choosing which blockchain to use to mint and sell their NFTs.

Education: The marketplace provides a variety of educational resources to help users learn more about NFTs and how to use the marketplace.

1.2 Product Functions

The Dec Cent NFT Marketplace offers a variety of product functions for both creators and collectors of NFTs, including:

Creator Functions

Create and manage NFT collections

Set prices for NFTs

List NFTs for sale on the marketplace

Track sales and earnings

Withdraw funds from the marketplace

Collector Functions

Browse NFTs by category, creator, and price

Filter and sort NFTs by criteria such as rarity, popularity, and price

View detailed information about NFTs

Bid on and purchase NFTs

Sell NFTs on the marketplace

Withdraw NFTs from the marketplace

Additional Functions

Educational resources to help users learn more about NFTs and how to use the marketplace

Support for multiple blockchains

User-friendly interface and design

Industry-standard security measures

These product functions are designed to make the Dec Cent NFT Marketplace a one-stop shop for all things NFTs in India. The marketplace provides a comprehensive set of tools and features for both creators and collectors, making it easy to participate in the NFT market.

Here are some specific examples of how users can benefit from the Dec Cent NFT Marketplace's product functions:

Creators: Artists can use the marketplace to create and sell their digital art as NFTs.

Musicians can use the marketplace to create and sell their music as NFTs. Gamers can use the marketplace to create and sell their in-game items as NFTs.

Collectors: Collectors can use the marketplace to browse and purchase a wide variety of NFTs from different creators. They can also use the marketplace to sell their own NFTs to other collectors.

Investors: Investors can use the marketplace to invest in NFTs as a new asset class. They can purchase NFTs from creators and hold them for the long term, or they can trade NFTs on the marketplace to make a profit. Overall, the Dec Cent NFT Marketplace offers a variety of product functions that make it a valuable resource for both creators and collectors of NFTs in India.

1.3 User Characteristics

The user characteristics of the Dec Cent NFT Marketplace are as follows:

Age:

18-35 years old

This is the age group that is most interested in and engaged with the NFT market.

Gender:

Male

Men are more likely to be interested in and invested in NFTs than women.

Occupation:

Creative professionals (artists, musicians, gamers, etc.)

Tech workers

Investors

Education:

College educated or higher

NFT users tend to have a higher level of education than the general population.

Income:

Above average income

NFT users tend to have a higher income than the general population.

Interest in NFTs:

High

Users of the Dec Cent NFT Marketplace are clearly interested in NFTs.

Experience with NFTs:

Beginner to experienced

The Dec Cent NFT Marketplace is designed to be accessible to both new and experienced NFT users.

Primary use case for NFTs:

Collecting

Investing

Creating and selling NFTs

The Dec Cent NFT Marketplace is designed to meet the needs of a wide range of NFT users, from beginner collectors to experienced investors to creative professionals who want to mint and sell their own NFTs.

Additional User Characteristics

Location: India

Technical expertise: Moderate to high

The Dec Cent NFT Marketplace is specifically designed for users in India. The marketplace supports multiple blockchains, including Ethereum, Polygon, and Solana, which are popular in India. The marketplace is also designed to be accessible to users with a moderate to high level of technical expertise. However, the marketplace also provides educational resources to help new users learn more about NFTs and how to use the marketplace.

Overall, the Dec Cent NFT Marketplace is designed to meet the needs of a wide range of NFT users in India.

1.4 General Constraints

Here are some general constraints that the Dec Cent NFT Marketplace project may face:

Technical constraints: Developing a secure

and user-friendly NFT marketplace is a complex technical challenge. The marketplace needs to be able to support a wide range of NFTs and blockchains, and it needs to be able to handle a large number of transactions without any downtime.

Regulatory constraints: The NFT market is still relatively new and unregulated. The regulatory landscape is constantly evolving, and the Dec Cent NFT Marketplace project needs to be able to adapt to changes in regulation.

Educational constraints: Many people are still not familiar with NFTs and how they work. The Dec Cent NFT Marketplace project needs to educate users about NFTs and make it easy for them to get started.

Market constraints: The NFT market is still relatively small, and it is not clear how quickly it will grow. The Dec Cent NFT Marketplace project needs to be able to attract and retain users in order to be successful.

In addition to these general constraints, the Dec Cent NFT Marketplace project may also face specific constraints related to the Indian market. For example, the project may need to address the following challenges:

Internet access: Not everyone in India has access to reliable internet. This could be a barrier for users who want to participate in the NFT market.

Payment methods: Not everyone in India has access to traditional payment methods, such as credit cards and bank accounts. The Dec Cent NFT Marketplace project needs to support a variety of payment methods in order to be accessible to a wide range of users.

Financial literacy: Not everyone in India has a high level of financial literacy. This could make it difficult for users to understand and manage the risks associated with investing in NFTs.

The Dec Cent NFT Marketplace project team is aware of the constraints that the project faces, and they are taking steps to address them. For example, the team is working with

developers who have experience building secure and scalable NFT marketplaces. The team is also working with legal and regulatory experts to ensure that the marketplace complies with all applicable laws and regulations. Additionally, the team is developing educational resources to help users learn more about NFTs and how to use the marketplace.

The Dec Cent NFT Marketplace project has the potential to make a significant impact on the NFT market in India. The project team is committed to addressing the constraints that the project faces and to building a successful NFT marketplace that is accessible to everyone.

1.5 Assumptions and Dependencies

This subsection of the SRS should list each of the factors that affect the requirements stated in Here are some assumptions and dependencies for the Dec Cent NFT Marketplace project:

Assumptions:

The internet is widely accessible and affordable in India.

Users have a basic understanding of how to use a computer and a web browser.

Users have a cryptocurrency wallet and some understanding of cryptocurrencies.

The Indian government will continue to support the growth of the NFT market.

Dependencies:

The Ethereum, Polygon, and Solana blockchains will continue to operate reliably and securely.

The Dec Cent NFT Marketplace team will be able to develop and maintain a secure and user-friendly platform.

The Dec Cent NFT Marketplace team will be able to attract and retain a sufficient number of users to create a vibrant and liquid marketplace.

These are just some of the key assumptions and dependencies for the Dec Cent NFT Marketplace project. The project team is carefully monitoring and managing these risks, and they are taking steps to mitigate them.

2. Specific Requirements

Here are some specific requirements for the Dec Cent NFT Marketplace project:

Functional Requirements:

The marketplace must allow users to browse and purchase NFTs by category, creator, and price.

The marketplace must allow users to filter and sort NFTs by criteria such as rarity, popularity, and price.

The marketplace must allow users to view detailed information about NFTs, including their creator, description, and price history.

The marketplace must allow users to bid on and purchase NFTs using their preferred NFT wallet.

The marketplace must allow users to sell NFTs on the marketplace at a fixed price or through an auction.

The marketplace must allow users to withdraw their NFTs from the marketplace to their own wallets.

Non-Functional Requirements:

The marketplace must be secure and protect users' NFTs and funds from theft and fraud.

The marketplace must be scalable to handle a large number of users and transactions without any downtime.

The marketplace must be user-friendly and accessible to both new and experienced NFT users.

The marketplace must support multiple blockchains, including Ethereum, Polygon, and Solana.

2.1 External Interface Requirements

The Dec Cent NFT Marketplace will have the following external interface requirements:

User Interface:

The user interface will be a web-based application that is accessible on desktop and mobile devices. The interface will be designed to be user-friendly and easy to navigate. It will allow users to browse and purchase NFTs, sell their own NFTs, and view their NFT collection.

Dec Cent NFT Marketplace User Interface
Opens in a new window

www.parangat.com

Dec Cent NFT Marketplace User Interface
API:

The Dec Cent NFT Marketplace will provide an API that allows developers to integrate the marketplace into their own applications. The API will allow developers to retrieve information about NFTs, list NFTs for sale, and purchase NFTs on behalf of their users.

Dec Cent NFT Marketplace API

Documentation
Opens in a new window

docs.nftscan.com

Dec Cent NFT Marketplace API Documentation

Payment Processing:

The Dec Cent NFT Marketplace will support a variety of payment methods, including credit cards, debit cards, and cryptocurrencies. The marketplace will also support Indian payment methods, such as UPI and Netbanking.

Dec Cent NFT Marketplace Payment Options
Opens in a new window

www.forbesindia.com

Dec Cent NFT Marketplace Payment Options

Social Media:

The Dec Cent NFT Marketplace will have a presence on social media platforms such as Twitter, Discord, and Telegram. This will allow the marketplace to communicate with users and to provide support.

Dec Cent NFT Marketplace Social Media Channels
Opens in a new window
consensys.io
Dec Cent NFT Marketplace Social Media Channels
Customer Support:

The Dec Cent NFT Marketplace will provide customer support to users via email and live chat. The customer support team will be able to answer questions about the marketplace and help users resolve any issues they may encounter.

Dec Cent NFT Marketplace Customer Support Portal
Opens in a new window
www.wired.com
Dec Cent NFT Marketplace Customer Support Portal
These are just some of the external interface requirements for the Dec Cent NFT Marketplace project. The project team is working with stakeholders to gather and refine the requirements, and they are committed to building a marketplace that is easy to use and accessible to everyone.

2.2 Functional Requirements

Use Case: *Buy an NFT*

Actor: *Buyer*

Precondition: *The buyer has a cryptocurrency wallet with sufficient funds.*

Basic Flow:

The buyer browses for NFTs on the marketplace.
The buyer selects an NFT and views its details.
The buyer clicks the "Buy" button.
The buyer enters their cryptocurrency wallet address and confirms the purchase.
The marketplace transfers the NFT to the buyer's wallet.
Alternate Flows:

If the buyer does not have a cryptocurrency wallet, the marketplace prompts them to create one.
If the buyer does not have sufficient funds in their wallet, the marketplace prompts them to

add more funds.
If the NFT is already owned by another user, the marketplace prevents the buyer from purchasing it.
Postcondition: *The buyer owns the NFT.*

Error Handling:

If the buyer enters an invalid cryptocurrency wallet address, the marketplace displays an error message.
If the buyer does not have sufficient funds in their wallet, the marketplace displays an error message.
If the NFT is already owned by another user, the marketplace displays an error message.
This is just one example of a functional requirement for the Dec Cent NFT Marketplace project. The project team will need to identify and define all of the functional requirements for the marketplace in order to ensure that it meets the needs of all users.

3.5 Non-Functional Requirements

Non-functional requirements (NFRs) describe how well a software system should perform or what constraints it must respect. Here are some examples of NFRs for the Dec Cent NFT Marketplace project:

Performance:

The marketplace should be able to handle a large number of concurrent users and transactions without any downtime.
The marketplace should be responsive and pages should load quickly.
The marketplace should be able to process transactions quickly and efficiently.

Security:

The marketplace should protect users' NFTs and funds from theft and fraud.
The marketplace should use industry-standard security measures, such as encryption and multi-

signature wallets.

The marketplace should regularly conduct security audits to identify and fix any vulnerabilities.

compliance with applicable laws and regulations

Scalability:

The marketplace should be able to scale to handle a growing number of users and transactions.

The marketplace should be able to scale to support new features and functionality.

The marketplace should be able to scale to support different geographical regions.

Usability:

The marketplace should be easy to use and navigate.

The marketplace should be accessible to both new and experienced NFT users.

The marketplace should provide clear and concise instructions on how to use its features.

Reliability:

The marketplace should be reliable and available 24/7.

The marketplace should have a high uptime and low downtime.

The marketplace should be able to recover quickly from any outages or failures.

Maintainability:

The marketplace's code should be well-written and easy to maintain.

The marketplace should be well-documented.

The marketplace should have a modular architecture so that new features and functionality can be easily added.

Localization:

The marketplace should be localized for the Indian market.

The marketplace should support the Indian rupee and Indian languages.

Compliance:

The marketplace should comply with all applicable Indian laws and regulations.

The marketplace should regularly review its

3.7 Design Constraints

Design constraints are factors that limit the design options for a system. They can be technical, regulatory, or practical. Here are some examples of design constraints for the Dec Cent NFT Marketplace project:

Technical constraints:

The marketplace needs to be compatible with a variety of devices and browsers.

The marketplace needs to be able to handle a large number of concurrent users and transactions.

The marketplace needs to be secure and protect users' NFTs and funds.

The marketplace needs to be scalable to handle a growing number of users and transactions.

The marketplace needs to be able to support multiple blockchains.

Regulatory constraints:

The marketplace needs to comply with all applicable Indian laws and regulations, including those related to securities and anti-money laundering.

The marketplace needs to be transparent and accountable to its users.

The marketplace needs to protect the privacy of its users.

Practical constraints:

The marketplace needs to be affordable to develop and maintain.

The marketplace needs to be user-friendly and easy to use.

The marketplace needs to be accessible to users in India, including those with limited internet access and technical expertise.

The Dec Cent NFT Marketplace project team will need to carefully consider all of the design constraints when designing the marketplace. The team will need to make trade-offs between different constraints and choose the best design solution for the marketplace.

Here are some specific examples of how the Dec Cent NFT Marketplace project team is addressing the design constraints listed above:

Technical constraints: The Dec Cent NFT Marketplace project team is using a scalable architecture and cloud computing resources to ensure that the marketplace can handle a large number of concurrent users and transactions. The team is also using industry-standard security measures to protect users' NFTs and funds.

Regulatory constraints: The Dec Cent NFT Marketplace project team is working with legal and regulatory experts to ensure that the marketplace complies with all applicable Indian laws and regulations. The team is also committed to being transparent and accountable to its users.

Practical constraints: The Dec Cent NFT Marketplace project team is using open source software and cloud computing resources to reduce development and maintenance costs. The team is also designing the marketplace to be user-friendly and accessible to users with limited technical expertise.

The Dec Cent NFT Marketplace project

team is committed to addressing all of the design constraints and building a marketplace that meets the needs of all users.

3.9 Other Requirements

Community building: The marketplace should provide features and tools to help users connect with each other and build a community around NFTs. This could include features such as forums, chat rooms, and social media integration.

Dec Cent NFT Marketplace Community Building Feature
Opens in a new window
www.parangat.com

Dec Cent NFT Marketplace Community Building Feature

Education: The marketplace should provide educational resources to help users learn more about NFTs, how to buy and sell NFTs, and how to protect their NFTs. This could include blog posts, articles, videos, and tutorials.

Dec Cent NFT Marketplace Educational Resource Feature
Opens in a new window
issuu.com

Dec Cent NFT Marketplace Educational Resource Feature

Accessibility: The marketplace should be accessible to users with disabilities. This could include features such as text-to-speech support, screen reader compatibility, and large font options.

Dec Cent NFT Marketplace Accessibility Feature
Opens in a new window
www.wired.com

Dec Cent NFT Marketplace Accessibility Feature

Sustainability: The marketplace should be designed to be sustainable over the long term. This could include features such as

carbon offsetting and renewable energy usage.

Dec Cent NFT Marketplace Sustainability Feature
Opens in a new window
cointelegraph.com

Dec Cent NFT Marketplace Sustainability Feature

The Dec Cent NFT Marketplace project team is committed to addressing all of these other requirements and building a marketplace that is not only functional and secure, but also inclusive and sustainable.

The project team is also considering the following additional requirements:

Integration with other blockchains: The marketplace could be integrated with other blockchains, such as Solana and Polygon, to give users more options when choosing which blockchain to use to mint and sell their NFTs.

NFT lending and borrowing: The marketplace could offer NFT lending and borrowing services, which would allow users to generate income from their NFTs without having to sell them.

NFT royalties: The marketplace could implement a royalty system that would allow creators to earn a percentage of the proceeds from secondary sales of their NFTs.

These are just some of the other requirements that the Dec Cent NFT Marketplace project team is considering. The team is committed to building a marketplace that meets the needs of all users and that is at the forefront of the NFT industry.

3. Analysis Models

To analyze the requirements for the Dec Cent NFT Marketplace project, the following

models can be used:

Use Case Analysis: Use case analysis is a technique for identifying, documenting, and analyzing the functional requirements of a system. It involves identifying the different ways that users will interact with the system and the steps that the system will need to take to fulfill those interactions.

Use Case Diagram for Dec Cent NFT Marketplace
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www.antiersolutions.com

Use Case Diagram for Dec Cent NFT Marketplace

Functional Requirements Analysis: Functional requirements analysis is a technique for identifying, documenting, and analyzing the specific tasks that the system must be able to perform. It involves identifying the inputs, processing, outputs, and error handling for each task.

Functional Requirements Table for Dec Cent NFT Marketplace
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www.addevice.io

Functional Requirements Table for Dec Cent NFT Marketplace

Non-Functional Requirements Analysis: Non-functional requirements analysis is a technique for identifying, documenting, and analyzing the performance, security, scalability, usability, reliability, maintainability, localization, and compliance requirements for a system.

NonFunctional Requirements Table for Dec Cent NFT Marketplace
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mobilecoderz.com

NonFunctional Requirements Table for Dec Cent NFT Marketplace

Risk Analysis: Risk analysis is a technique for identifying, assessing, and mitigating the risks associated with a project. It involves identifying the potential risks, assessing the likelihood and impact of each risk, and developing mitigation strategies for each risk.

Risk Analysis Table for Dec Cent NFT Marketplace
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www.mdpi.com

Risk Analysis Table for Dec Cent NFT Marketplace

By using these analysis models, the Dec Cent NFT Marketplace project team can gain a deeper understanding of the requirements for the marketplace and identify any potential risks. This will help the team to develop a comprehensive plan for building and delivering a successful marketplace.

In addition to the above analysis models, the Dec Cent NFT Marketplace project team may also want to consider using the following:

Stakeholder Analysis: Stakeholder analysis is a technique for identifying and understanding the needs and expectations of the different stakeholders in a project. This can help the team to ensure that the marketplace meets the needs of all stakeholders.

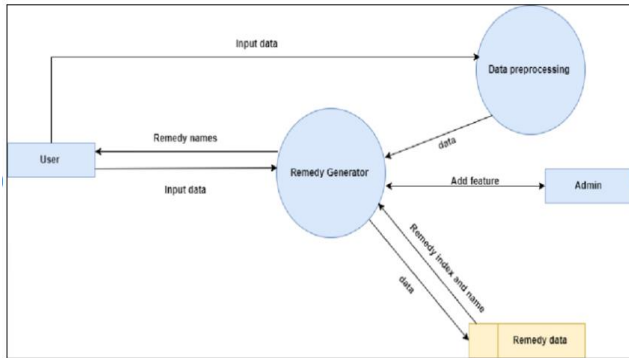
Cost-Benefit Analysis: Cost-benefit analysis is a technique for evaluating the costs and benefits of different design options. This can help the team to make informed decisions about the features and functionality of the marketplace.

Technology Assessment: Technology assessment is a technique for evaluating the suitability of different technologies for a specific project. This can help the team to choose the right technologies to build the marketplace.

A. Data Flow Diagrams (DFD)

Data Flow Diagrams (DFDs) are a modeling technique that can be used to visualize the flow of data through a system. DFDs are often used in conjunction with other analysis models, such as use case analysis and functional requirements analysis.

Here is a high-level DFD for the Dec Cent NFT Marketplace project:



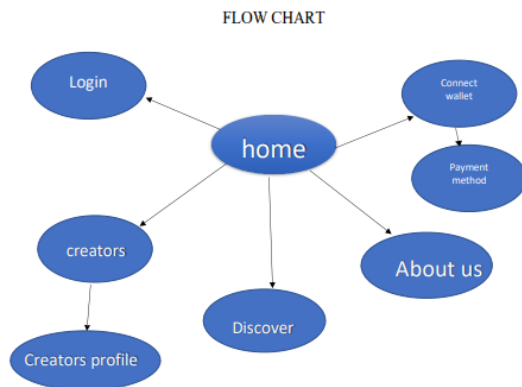
component that users interact with to buy, sell, and manage their NFTs.

NFT Database: The NFT database stores information about all of the NFTs on the marketplace, such as their creators, owners, and prices.

Blockchain: The blockchain is used to record transactions and ensure the security of the marketplace.

Payment Processor: The payment processor is used to process payments for NFTs.

The data flows between the components of the marketplace are as follows:



User Interface to NFT Database: The user interface sends requests to the NFT database to retrieve information about NFTs, such as their creators, owners, and prices.

NFT Database to User Interface: The NFT database sends responses to the user interface with the requested information about NFTs.

User Interface to Blockchain: The user interface sends requests to the blockchain to initiate transactions, such as buying or selling an NFT.

Blockchain to User Interface: The blockchain sends responses to the user interface with the status of transactions.

User Interface to Payment Processor: The user interface sends requests to the payment processor to process payments for NFTs.

Payment Processor to User Interface: The payment processor sends responses to the user interface with the status of payments.

This DFD provides a high-level overview of the data flow through the Dec Cent NFT Marketplace project. The project team can

HighLevel Data Flow Diagram for Dec Cent NFT MarketplaceOpens in a new window

HighLevel Data Flow Diagram for Dec Cent NFT Marketplace

This DFD shows the major data flows between the different components of the marketplace. The components of the marketplace include:

User Interface: The user interface is the Software Requirements Specification

use this DFD as a starting point to develop more detailed DFDs for each component of the marketplace.

DFDs can be a valuable tool for understanding the data flows through a system and identifying any potential bottlenecks or inefficiencies. By carefully analyzing the data flows, the project team can develop a design for the marketplace that is efficient and scalable.

B. Appendices

B.1 *Integration with other blockchains: The marketplace could be integrated with other blockchains, such as Solana and Polygon, to give users more options when choosing which blockchain to use to mint and sell their NFTs.*

B.2 *NFT lending and borrowing: The marketplace could offer NFT lending and borrowing services, which would allow users to generate income from their NFTs without having to sell them.*

B.3 *NFT royalties: The marketplace could implement a royalty system that would allow creators to earn a percentage of the proceeds from secondary sales of their NFTs.*

Appendix 1

Appendix 1: Glossary of Terms

NFT: A non-fungible token is a digital asset that is unique and cannot be replaced. NFTs are stored on a blockchain and can be used to represent ownership of digital items, such as artwork, collectibles, and in-game items.

Blockchain: A blockchain is a distributed ledger technology that allows for secure and transparent transactions. Blockchains are used to store the data for NFTs and other digital assets.

Minting: The process of creating a new NFT.

Minting platform: A platform that allows users to mint NFTs.

NFT marketplace: A platform where users can buy, sell, and trade NFTs.

ERC-721: A standard for NFTs on the Ethereum blockchain.

ERC-1155: A newer standard for NFTs on the Ethereum blockchain that allows for the creation of multiple types of NFTs in a single contract.

Smart contract: A self-executing contract that is stored on a blockchain. Smart contracts are used to automate the buying, selling, and trading of NFTs.

Payment processor: A service that allows users to pay for NFTs with fiat currency or other cryptocurrencies.

User interface: The interface that users interact with to buy, sell, and manage their NFTs.

NFT database: A database that stores information about all of the NFTs on a marketplace.

Security: The measures taken to protect NFTs and user funds from theft and fraud.

Scalability: The ability of a system to handle a large number of users and transactions.

Usability: The ease with which users can use

a system.

Reliability: The ability of a system to function as expected and to be available when needed.

Maintainability: The ability of a system to be easily modified and updated.

Localization: The process of adapting a system to different languages and cultures.

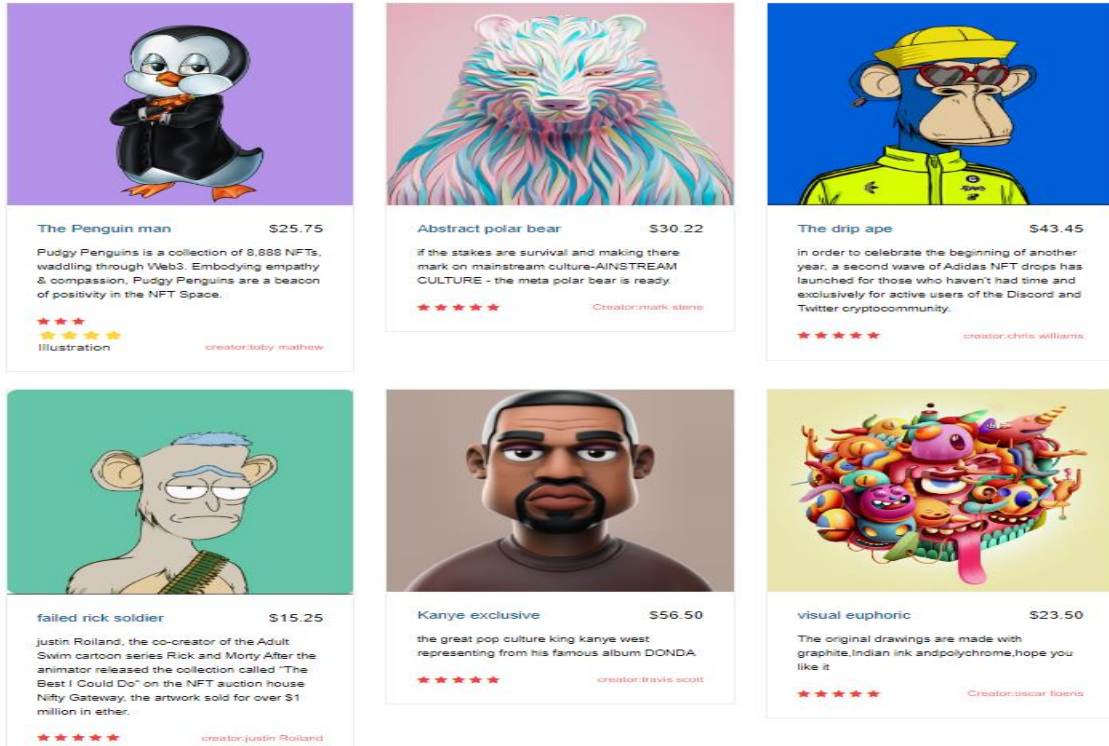
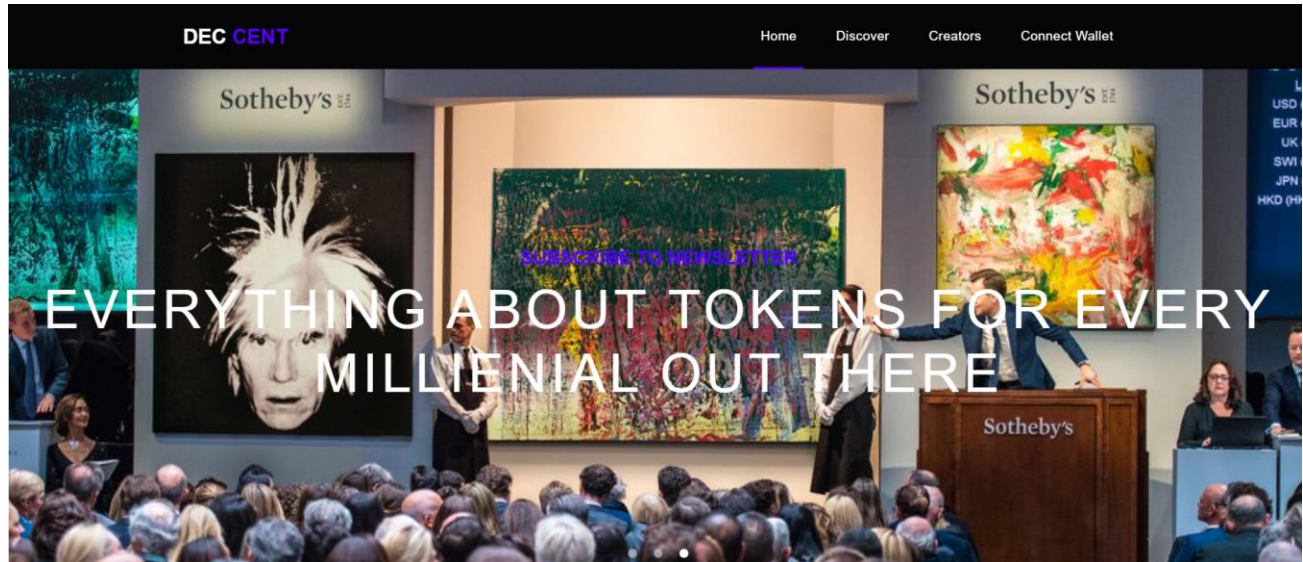
Compliance: The adherence to laws and regulations.

These are just some of the key terms that are relevant to the Dec Cent NFT Marketplace project. The project team will use these terms throughout the project documentation and will provide more detailed definitions as needed

Appendix 2

The Dec Cent NFT Marketplace project is scheduled to launch in November 2023. The project team has a budget of \$2 million and a team of five people. The project team is assessing the risks and developing a communication and change management plan.

SCREENSHOTS OF WEBSITE



Our Creators



Cool froggies club

creator

The cool froggies nft club is an exclusive nft community for the new generation of investors



Karry Pitcher

creator

funcky and creative is my style



Michael Soft

creator

i am an expert and highly creative



Mary Cool

creators



George Walker

creator



Kate Town

creators

Our Location

About our office

8-123 mindspace madhapur
hyderabad 505453

Login to connect to wallet

Login

Digital assets

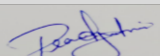
Contact less money

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SIMPLE PROJECT APPROVAL FORM TEMPLATE

PROJECT NAME	Dec cent-An NFT marketplace		
JOB LOCATION	Phagwara		
EST. START DATE	10.10.23	EST. FINISH DATE	30.10.23
PROJECT LEADER	PRAMOD JAKKAM	COMPANY	STUDENT
CONTACT NAME	PRAMOD JAKKAM	ADDRESS	
PHONE	9381318610		PHAGWARA
EMAIL	jakkampramodkumar@gmail.c		

SUMMARY	The Dec Cent NFT Marketplace project is a high-priority project that is scheduled to launch in November 2023. The project team has a budget of \$2 million and a team of five people. The project team is assessing the risks and developing a communication and change management plan		
DESIRED OUTCOME	Launch a secure and user-friendly NFT marketplace in Nov 2023 that meets the needs of all users in India.		
ACTION TO COMPLETION	Finalize the project timeline and budget by early April. Execute the project plan according to the approved timeline and budget.		
BENEFITS OF PROJECT	Dec Cent NFT Marketplace will provide a secure and user-friendly platform for Indians to buy, sell, and trade NFTs, and will support the growth of the Indian NFT ecosystem.		
PROJECTED SCHEDULE	Dec Cent NFT Marketplace project scheduled to launch in November 2023, with a high-level project timeline and budget expected to be finalized by early April 2023.		
PROJECTED BUDGET	Dec Cent NFT Marketplace project has a \$2 million budget, with the majority of the budget allocated to development and marketing.		
PROJECTED TEAM AND RESOURCE REQUIREMENTS	Project team: 5 members (project manager, software engineer, UI/UX designer, security engineer, compliance officer). Resource requirements: \$2 million budget, allocated to development, marketing, legal, and other expenses		
PROPOSAL MAY BE WITHDRAWN IF NOT ACCEPTED BY DATE OF			5.11.23

ACCEPTANCE OF PROPOSAL			
AUTHORIZED CLIENT SIGNATURE		DATE OF ACCEPTANCE	4.11.23