Final Year Project Proposal

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# INTRODUCTION

# Cryptostan. Trading market for cryptocurrency. User will upload his own NFT for trading or selling.

# OBJECTIVE

# Our team is tending to create a web cryptocurrency exchange platform (trading market) and consequently adding a feature to upload your own NFT in order to trade or sell. Last but not least, we are planning to connect a blockchain to our platform.

# PROBLEM DESCRIPTION

What? - We are going to make a web platform where users can sell, exchange cryptocurrencies, add their own NFTs, and also hold auctions. In the future, this will turn into a full-fledged exchange using blockchain for storing and processing personal data and identification

Why? - The exploration of cryptocurrency, and especially NFT, is in high demand.

How? - To solve problems with the client side, frontend developer will use framework. For the backend side we will use JavaScript and it’s frameworks

# METHODOLOGY

We are going to use Waterfall method which is a project management technique that approaches a transitional stage to another without skipping and returns to one stage option. The development model implies the sequential passage of the process, divided into stages. The transition to a new stage is possible only after the completion of the previous one.

Analysis: Implemented in models, diagrams, and business rules.

Design: software internal architecture, reality implementation. This is not only about the interface and appearance of the software, but also about its internal structural logic.

Coding: Contains significant program code, software integration in progress.

# PROJECT SCOPE

# USER

# **Login Page: (must have)**

# **-** Authorization via email

# - Registration:

# Login

# Password

# Mail

# Ethereum wallet link

# **Account: (must have)**

# Nickname

# Etherium Wallet

# Password recovery

# Uploaded NFT’s

# Status of each uploaded NFT: approved, not approved, auction status

# **Auction (should have)**

# Instant purchase of NFT without auction

# Auction cancellation

# **Information about crypto (could have)**

# price of cryptocurrencies

# cryptocurrency growth and fall chart)

# **Dark Theme (could have)**

# **Administrator (must have)**

# NFT moderation approved/disapproved (reason)

# Block and delete user (reason)

# % of NFT sales – planned

# One of our main goals is to provide users with the safety of trading on our site, as well as support in case of fraud and etc. One of the important things is to promote our site so that it becomes popular, and if everything goes well then we should be ready for a large flow of users. Build hype & community

# NFT launches are all about building excitement and community. The more excitement surrounding your NFTs, the more value people will ascribe to them. So, once you have your NFTs ready for release, it’s time to get people excited about them.

# FEASIBILITY STUDY

1. **Risks Involved**:

Main problems that can occur while developing backend is to correctly assign new owner of the NFT token and from that occurs the second problem to correctly withdraw a correct number of etherium from the crypto account.

The difficulty of creating a web socket so that the server can constantly send new data to the front

1. **Resource Requirement**:

In the case of a large flow of users, we will need staff to cope with this flow. Experts and analysts in the field of NFTs and cryptocurrencies. Marketing department to promote our platform, technical support, programmers.

# SOLUTION APLLICATION AREAS

# The current financial system is full of flaws: Inflation, bubbles, bailouts, questionable regulations, theft, unfair policies, incompetence, inefficiencies, privacy, inequality, lack of transparency, poverty, the unbanked, corruption. It’s a broken system for many with unfair advantages for a few. Coincidentally, these few are the ones opposed to change. What a surprise.

# One of the reasons Bitcoin was created is to provide a fairer system that does not depend on corrupt politicians, greedy bankers, or obsolete financial institutions. When money and power get concentrated in a few hands, bad things are bound to happen.

# TOOLS/TECHNOLOGY

Frontend: To solve problems with the client side, frontend developer will use the Angular 13 framework. He will be using the Angular Material user interface library, a user interface library created by Google. To communicate with the backend server, he will use the Fetch API. To test the application, developer will use the Jasmine framework built into angular

Backend: For the backend side we will use JavaScript and it’s framework NextJs. It is become popular recently and for the crypto exchange we will use language called Solidity, it was designed just for this kind of operationsEXPERTISE OF THE TEAM MEMBERS

# Our team at the project level knows how to work with cryptocurrencies and exchanges, the concept of cryptocurrency has gained high popularity, and especially NFT, are the most hyped crypto trend.

# In our team there is a person who knows how to work with blockchain and how to apply it, and of course there are members who know the front and back. Project manager, UI/UX designer and copywriter. We felt that this topic is interesting to us and that it is in our power

# SCHEDULE OF ACTIVITIES, GANTT CHART, MILESTONES

|  |  |
| --- | --- |
| Activity | Tentative Date |
| Organizational meeting | 1.02.2022-10.02.2022 |
| Documentation | 10.02.2022-17.02.2022 |
| UI/UX design | 17.02.2022-3.03.2022 |
| Frontend development | 3.03.2022-18.03.2022 |
| Backend development | 3.03.2022-18.03.2022 |
| Blockchain | 19.03.2022-2.04.2022 |

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# REFERENCES

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3. <https://queue-it.com/blog/successful-nft-drop/>
4. <https://www.businessinsider.com/what-are-risks-of-investing-in-nft-2021-3>