

ECSE 428 Weekly #01 | MINUTES

Date	2022/01/21	Location	Discord
Time	7:00-9:00	Purpose	Project Proposal
Facilitator	Dan	Minutes	
Absent	Kalvin, Seb		

Meeting Agenda

1. Team Introduction.
2. Formating the Project Proposal.
3. Assign Product Owner, Scrum Master, and Team Member Roles.
4. Explanation of Cryptocurrency, NFTs, and what's the product we want to make.

All members go to the Task section

Discussion Topics

Team Introduction

- Team introduces itself with a 5 minute presentation

Formating the Project Proposal

- Alexandru created the Project proposal in a LaTeX document
 - Added names, emails, ids of all members

Assign team Roles

- Currently waiting for all team members to be present to discuss who wants to be the scrum master and product owner for Sprint 1.

Explanation of Crypto, NFTs

- Non Fungible Tokens (NFTs) are JSON files identified by unique addresses on a blockchain.
- NFTs represent underlying linked assets (images, audio, video). However, hosting

data on the blockchain is expensive. To go around this, people upload assets to an [IPFS](#) network, and add the corresponding link to an NFT.

- Conveniently accessing the blockchain can be done via [javascript libraries](#) and via [APIs](#) that save us from running local blockchain nodes.
- The biggest marketplace is [OpenSea](#).
- Layer 1 blockchains are like Bitcoin. They allow for monetary transactions, but nothing really more than that. Layer 2 blockchain solutions like Ethereum allow for code to run during transactions. The code that is to be run upon transactions is specified in a smart contract.

Discussion of the product 🌸

- The initial idea: Design a cryptocurrency/NFT marketplace such that the users can display and sell the NFTs that they own.
 - Host transactions
 - Chat with sellers
 - Other features ...?
 - Discover NFTs and search.
- The platform will be under the form of a web site, IOS, and android app.
- Abdel proposes that the platform targets a niche population for example McGill Students.
- Currency could be Ethereum.
 - Mircea proposes to have our own currency, but Alex objects saying that it is hard to maintain for real use.
 - Will have to keep in mind the security (very important !!).
- Could use Instagram's APIs to source their NFT and sell it.
 - Good for "artsy" instagram accounts with photographs.
- What are the technologies to use? Which APIs?
 - Tiktok, Instagram API to access the media content
 - ~~Will have to research if the API exists.~~ -> **IG**, YT, FB, Twitter, Tiktok exist
- Kiro raised a potential problem where Gherkin might not be compatible with Python/JS -> [It actually is !](#)
 - ~~Harsh is looking into this.~~ No need anymore.
- Platform could take a cut (small percentage) for each transaction.
- Minimal Viable Product for the first iteration of the product.

- Concerns about what's realistic for the first iteration/Sprint 1
 - Mircea affirms we can complete the transaction process in 2 months.
- Core functionality will be to take the content of other social platforms and allow users to transform their content into NFTs and sell them on the marketplace.
- Smart contracts written in Solidity (?)
 - Blockchain APIs in JavaScript are easier to set up than Python.
- What languages are we using?
 - Database with 1 table (potentially have it setup in the Smart Contract)
 - Relational DB such as MongoDB
 - Store username/password OR use wallet to sign in.
 - Meta mask API.
 - Single sign on
- What UI library to use?
 - **sVue**, React?
 - Stick to Vue since most of the members did a project with Vue last semester.
 - React has a learning curve since not everyone is familiar.
 - Before coding the UI, design a layout! (Using Figma or similar)
 - Make sure to keep all versions (for documentation).
- Summary:
 - Technologies to use:
 - UI: Vue, JavaScript
 - Meta Mask API for wallet sign in
 - Instagram APIs
 - Smart Contract: Solidity
 - Audience:
 - Students, Social media artists, influencers.
 - Platforms:
 - Web site
 - Product Name:
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Our team is **NF-TEA**

The project we aim to put forward is a Web3 powered online platform directed at content creators and influencers. The web application will allow its users to convert social media content from their Instagram accounts into Non Fungible Tokens. The created NFTs will then be available for users as tradable assets, using Eth* as a store value.

Metamask's hot wallet functionalities will be leveraged in order to provide users with the option to discharge their assets from the platform. Purposed as such, the NFT platform will create a convenient user experience in web environments. It should also be light enough to be ported to mobile environments using a non-native implementation.

* Eth: The Ethereum blockchain currency.

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Original proposal sketch:

The project we aim to put forward is a Web3 powered platform for content creators and influencers to convert their content into Non-fungible Tokens (NFTs) such that they can be sold on the platform using Ethereum as cryptocurrency.

The users will use their wallet to sign in on the platform where online transactions can be processed.

*)

Tasks

- **Dan will mark in bold any terms that are related to programming, crypto, NFTs**
 - **Make sure to research them (SCRUM MASTER CAN YOU LINK SOME ARTICLES FOR EACH TERM)**
- Watch this [tutorial](#) to understand how to create an NFT.