ECSE 428 Weekly #02 | MINUTES 🌸

Date	*2022/02/03*	Location	*In Person and Zoom*
Time	*9:00-11:00*	Purpose	*Project Preparation*
Facilitator	*Alexandru*	Minutes	*Dan*
Absent	*Hongyi*		

Meeting Agenda

1. **Define tasks needed to be complete for project preparation (due Sunday)**
2. **Review Proof of Concept for NF-TEA**
3. **Decide on Release Pipeline and Team Coordination & setup Repo**
4. **Decide on when a task is considered Done**
5. **Start Product Backlog**

All members go to the Task section

Discussion Topics

Define Tasks To Complete for Sunday deadline

- We need to have a master document of what we'll use:
  - Github for source content
  - Gradle for building
  - Github actions for CI
  - Google drive for documents
  - Github issues for tracking

- We need to have two backlogs done:
  - Main backlog (1/2)
  - Select from main backlog what we want to do for sprint 1 (2/2)
    - 1 feature file done
      - Story test
      - Acceptance test
      - Automated test (gherkin)

    - Done checklist (Dan’s tasks)
        - “What the prof said in the slides”
        - Must be implemented and pass all tests.
        - Code must be peer reviewed and documented.
        - Code must be merged to the main branch and still pass system testing.

- Info:
    - No need for database/backend since we have SmartContracts
        - Listings through Smart Contracts
            - Q: Should we have a log?
                - A: By web3, there shouldn’t be a log.
            - Web3 is database less
                - Q: How to test??
        - We might not use Gradle
        - MetaMask
        - Will need to send a message to TA/Prof about this situation.
            - Alexandru will send message after this meeting
        - Can do Gradle for front-end
            - Test cases for front end only
            - Authorization purposes
    - If centralized and the server goes down, the NFTs would be worthless.
    - Will need to add dependencies.
    - Alchemy is like Heroku
        - You get an URL to deploy
    - MUST DOWNLOAD vue-metamask
    - To communicate with the blockchain, use Ether.js
    - OpenZeppelin is a library for Solidity
    - FIgure out what features we want
    - Mircea proposes that first sprint:
        - “ As an user, I would like to be able to log in to IG and to Metamask. I would like to view my IG content on my profile page and to be capable of turning that content into NFTs. “
        - Implies will have implemented ways to create NFTs.
        - Implies that users can set up their IG account.
        - Very dependent on how everyone becomes used/familiar with the tech used.
        - Will create the front-end first to be able to set up the IG login.

    - What is the order of development of tasks/process?
        - Can have a team for smart contracts and another team for frontend
        - Implement meta mask and Ig separately
        - Get content from IG
        - Link metamask for smart contracts.

    - Once you get the smart contract code
        - Use featurescan to see all of smart contract code
        - All the “backend” is public
            - Don’t need it to be secure.

        - Majdid worries about security problems with JavaScript.

- Alexandru proposes to have a backend:
    - Fear of having enough gherkin tests for the assignment
    - Gherkin scenarios for auctions

- Potential features:
    - What do our users realistically want?
    - List on the marketplace or sell directly to a person.
        - Hooks to smart contracts
        - Read mapping, when that mapping gets updated, get data when the mapping exists
    - Notifications
    - No message system with the tags.
    - Friends list from instagrams
        - Add me on instagram if you wanna buy NFTs
    - Traditional backend
        - For whenever we can't dont something with the smart contracts
    - Must login to see the NFTs
        - Just like pinterest
    - Community
        - Discounts when in following certain community.
    - Trading?
    - Have your NFTs on your apple pay or google pay.
    - Can have multiple accounts connected to the MetaMask wallet.
        - MetaMask is linked to one wallet.
        - In your profile, have a list of connected accounts.

Proof of Concept NF-TEA

- PoC
- Cucumber example

Release Pipeline

- **GitHub for hosting**
- **GitHub Actions for CI**
- **Gradle for build**
- **GitHub Issues + Project Board for tasks**
- **Discord for collaboration**

When is a task considered Done?

- Done checklist (Dan’s tasks)
    - “What the prof said in the slides”
    - Must be implemented and pass all tests.
    - Code must be peer reviewed and documented.
- Code must be merged to the main branch and still pass system testing.