**Senior Design**

**COSC 4950**

**BlockHeads**

*Megan Steeves*

*Selma Samet*

*Kellen Mentock*

*Tamara Linse*

**Meeting. 9.19.2023 - Selma, Megan, Kellen, and Tamara**

***Summary***

* Our project:
  + CredHub – Protecting your credentials
  + Tagline – You’ve got cred
  + Group name – BlockHeads
  + We will develop a web application (dApp) (mobile interface reserved for future due to limited development time)
* Everyone has their logins to the group on WyoCourses, Discord group, and GitHub
* Tamara and Selma had started the pitch document before the meeting
* We all developed the pitch document to be fairly complete during the meeting
* Jim is our advisor
* For now, all we need is a server
* Selma proposed our name be CredHub - Protecting your credentials
* Tamara proposed the tagline You’ve got cred
* Megan showed us an example app from Colorado state government that holds credentials that we can partially use as a model
* Kellen suggested we not only have a blockchain to store credentials but also we use a smart contract to verify with official organizations
* Types of IDs/credentials: social security number, birth certificate, passport, drivers license/ID card, degrees, marriage license, etc.
* Someone suggested using a QR code for sharing of credentials
* We discussed how to authenticate (2FA?) and what data would be used for user login (SSN? other?) and how to protect against someone getting your data and then spoofing you and creating an account
* Trust and security is going to be very important
* Verification with official organizations may be either through an API or through a analog process
* Reminders to renew ids and credentials will be built in
* As a phone app, will need a lock feature for when a user hands over their phone to someone to show id
* We may need alternate profile options (what someone goes by at work vs in private vs as a name that you go by for other things)
* For blockchain, we may use Solidity and Truffle and Truffle boxes
* Not sure the exact data storage model - blockchains with a database (hybrid)?
* Functionality to consider: authentication, user accounts, security/trust, UX/UI, data storage (blockchain and database), API integration, manual verification, use cases

***Action Items***

* Selma will edit through the pitch document and send to everyone else to review (Sunday?)
* Then we will submit the pitch document by Tuesday, 9.26
* We will meet with Jim sometime in the next two weeks
* We are setting up additional meeting times (during class time?)
* We will each complete status update #1 and submit by 10.9
* Future topics – narrow in on functionality, tech stack, and who is doing what

**Initial Meeting and Followup on Discord, 9.12.2023 - Megan, Selma, Kellen, and Tamara**

***Summary***

* Tamara, Megan, and Selma pitched idea to class, 9.12.2023
* Kellen joined group and is interested in blockchain
* Selma emailed Jim, and he set up group on Discord and WyoCourses
* Megan is in contact with her prof Steve Lupien, who can help us or connect us with people as necessary

***Action Items***

* Because we’ve formed our group, we will not go to class 9.19.2023
* Instead, we’ll meet in Coe Library during that time (Tues., 9.19.2023, from 4-5, in Coe 263) to talk about the project and create the pitch document
* We all will bring ideas and what aspect we’re good at and what we would like to work on
* Selma is reserving the room in Coe
* Tamara is taking meeting notes