

02/25/2022

Meeting started at: 4:00pm

Present:

- **Raven Zucchelli**
- **Abigail Zucchelli**
- **Wasif Siddiqui**
- **Kumail Bukhari**
- **Aiden Nguyen**
- **Cedric Lee**
- **David Eddy**

Notes:

- **GitHub Documents UML**
 - Ways to do version control without having to do it directly on GitHub instead of doing the pdf
 - Uml documentation
 - Cedric created updated UML Markup language for our documents/deliverables
 - PlantUML
 - Focus on the data rather than the
 - GitHub
 - Output - contains images
 - UML - contains the UML code
 - SVG - Scalable Vector Graphic
 - Don't lose clarity of the image - scalable
- **Message Signing**
 - Depending on message signature video
 - Digital signature - what should it look like? How would digital sign?
 - Different ways of doing it
 - Employer providing Unique ID field
 - Click a button, application sign the message, respond back with some string that includes a timestamp and public key
 - Random message with some structure
 - Copy message to third party tool, and create the signature
 - Submit the form, got a message ,copied and pasted, signed it
 - Another field to paste signature into it
 - Single transaction go to the block chain
 - Encrypting message with the public key
 - ID access management system - a lot of systems
 - Passcode is the digital signature through that code
 - Know that it's you
 - Won't get access until get the code
 - Account associated with a public key
 - MFA is a pointer to it to know who you are
 - Do we want to, do digital signature or do we pass static digital signature?
 - Concept:
 - Once block chain receives it, it will decrypt message with public key and that would result in the original message
 - Submit the transaction

- Public key, message signed with public key and original message
 - Employer is encrypting message with the private key with public key
 - Input - survey info, employer public key, signature, original message
 - Block chain receives, decrypt message with the public key must match
 - Block chain has listener, sending transaction expecting the parameters
 - Must do signature - implement signing it digitally and sending it to the block chain
 - Act of signing of message is manually off the system/application
 - They are signing it themselves
 - Employer experience
 - Open form, enter public address message appears, employer would sign, with auto generated message try to do same thing but with receiver
 - Sending the signature public key, signature, message and survey
 - Block chain receiving it and verifying the transaction
 - Message signature test is decrypting the signature
 - and then ensure its the right personMessage - unique every time
 - Main thing - timestamp, unique across public key is included
 - Make call to block chain and give response, know its in the block chain and save it to the database
 - Some risk, might never get to database
 - Ask signature when they input public key, the message will appear underneath the employer id and signature will be on the same line
 - Message appears, put signature box and go off take message sign it and past, and now the form has everything they need
 - Provides some uniqueness to the message
 - API to blockchain- limited amount of time, message has expiration about 5 minutes - blockchain API does that - can change time
 - Next steps:
 - Implement changes to the screen/mock-up
 - Designate a team for blockchain API
 - Good if one or two takes a particular keen interest in block chain code
 - Familiarize - represent block chain api team
 - Can make changes to the code
 - When submitting the survey, what is the data-structure of the survey
 - Block chain receiving a string, are we talking about putting string in json?xml? What are we receiving back?
 - Whomever is on team, coordinate to get the code running on their machine
 - Ripple effect to database to referral table [update database mock-up]
 - Message, message signature
 - Some of code template code - udacity - don't present any of that as own, if cite david or udacity do it
- Blockchain code
 - Creating docker containing and running code in container, put image in AWS
 - Set up Container registry and container service

- Future infrastructure
- Different server/domain space, calling the API, there is something called cores policy, protecting inline client side javascript
 - Browser security - post somewhere from a browser different from server that its from, then security risk
- As long as there is a way to normalize score so if question is added old scores may become invalid
 - Known limitation, pick a question thoughtfully chosen to have normal distribution, lack of fairness to early adapters
 - Assume to only post score