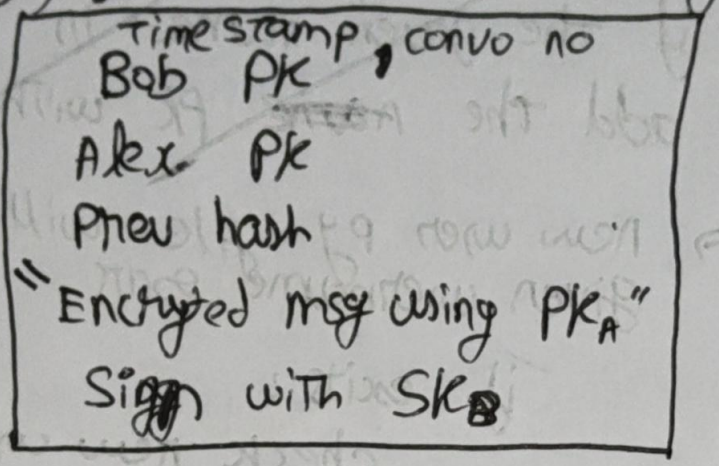
1) we will have user log (log having username and their PK) new user will add their username and PK to log and make PR. the bot will verify and accept the PR. after which Repo will be pulled.

2) (I'm BOB) I will send a msg to Alex in this format



and send this to unverified msg log and follow PR Process.

3) Alex's GUI will look for unverified msg in that log. once a msg found, GUI will sign with SK_A and to end of msg, and put it into Announcement log and follow PR process.

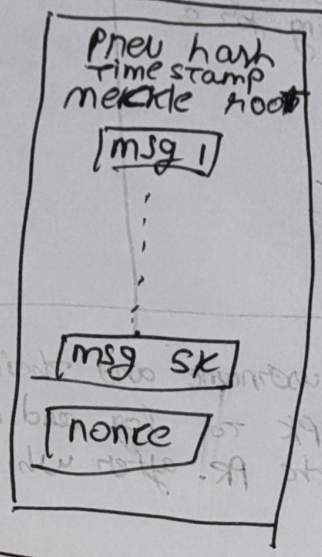
only include after verification

4) once nodes recieve a msg in Announcement log, they will arrange those msg Based on timestamp and add it to unfinished Block. once they got SK msg, they will start mining for target nonce. once found, they will put the Block into Block announcement log. again will do a PR Process

5) when nodes see a Block in Block announcement, they will do chain level management and make their Blockchain and (you guessed it) add it Blockchain announcement log.
and do PR Process

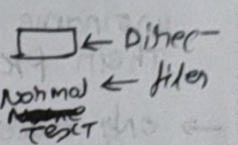
6) The Bot will choose longest and most frequent Block Blockchain and commit it to main Branch.

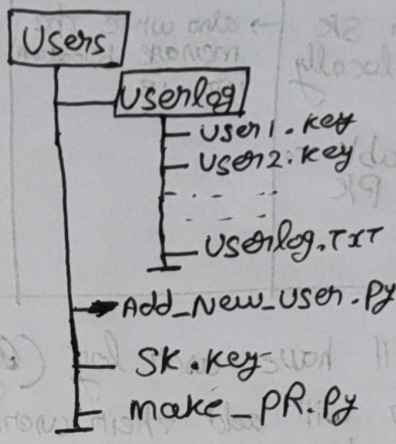
Block structure



1st Division

User directory structure





→ new user py file will check whether given username exits or not if yes it will prompt you for new username if the given name is unique, add the PK with username

→ once the py prog is runned, it won't run again

→ New user py file will check whether given username exits

if exits:
check new username
else:
- Add PK with username.key format to Userlog
- Also Add username to userlog.txt
- Add SK with SK.key into Users
- once added, the prog shall run make_PR.py which only track Userlog, commit it on new branch and push it.
- PR Bot will verify and accept the pull request

IV 2

→ have log for count of conv had with the

8:15 - 10:45 - Academics or CP

2nd Division

logs to maintain

(convo log) → log for convo no → will have convo no as key, and we will have msg id for that convo as value we will also have who sent msg as value

(my log) → log for msg i send

(msg log) → unverified msg log → from unverified log

→ It has key as convo no and value as msg

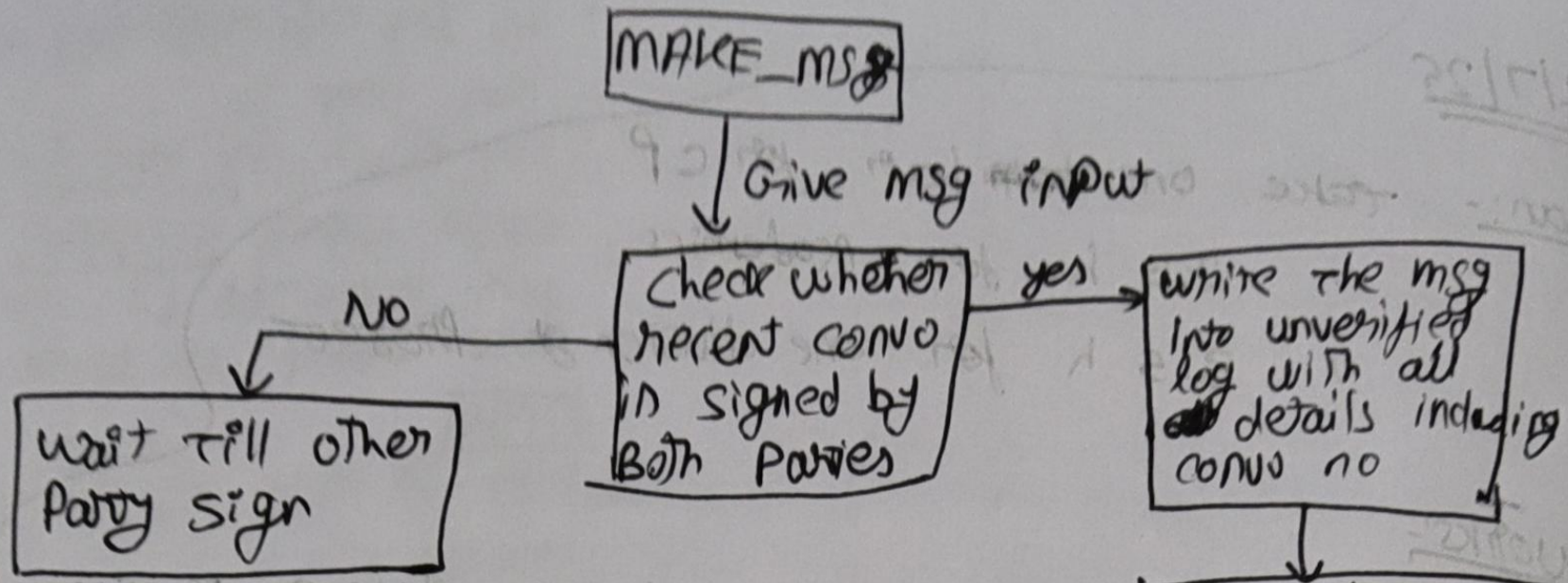
→ whenever we run the script, it will always ask for msg from my end. Also the GUI run this script when I need to send a msg.

→ After getting my msg as input, it will see what is the convo no of msg and update to my log. (from convo log)

→ from the convo log, we can get msg id of prev msg. and get it's hash from Announcement log.

→ finally msg will be made and updated to msg log. convo log is also updated.

→ note this process won't happen when a user have a unverified message waiting to be signed by other party



→ when other side saw the unverified msg, signed it and add to Amownbar log. ~~it also go added~~ to they update convo log from their side.

→ convo log structure

convo no : [msg ID, Sender and Reci PK, Sender sign, Reciever sign]

Sign = SK ("msg ID" + "Sender PK" + "Recieve PK" + "convo no")