

Secure Voting

Insecure Boting

<https://github.com/lon5948/Secure-Voting>



張可晴

109550005



李晏融

109550031



紀竺均

109550025



孫宜君

109550118



謝翔丞

109550025

Outline

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- Conclusion

Introduction



Secure Voting

Definition 1

none of the actors involved in the voting process (organizers, election officials, trusted third parties, voters, etc.) should be able to link a vote with an identifiable voter



Definition 2

no voter should be able to prove that she voted in a particular way



Definition 3

there should be a clear separation of registration and authentication procedures, on one hand, and casting-transfer of the vote, on the other



Definition 4

The secrecy of the vote should be guaranteed during casting, transfer, reception, collection and tabulation of votes

Implementation

Administrator

Administrator

HERE WE GO !

READ RESULTS

ADD VOTER

CLEAR RESULT

RESET DATABASE

Voter Registration

Voter ID

Name

make sure you open your camera before register

Register Voter

Implementation

Voter



Hello! lon

HERE WE GO !

VOTE

CHANGE PASSWORD

READ RESULTS

Change PassWord

Password

Retype Password Again

Change

Select the party to vote !

HERE WE GO !

A

B

C

D

Hello! lon

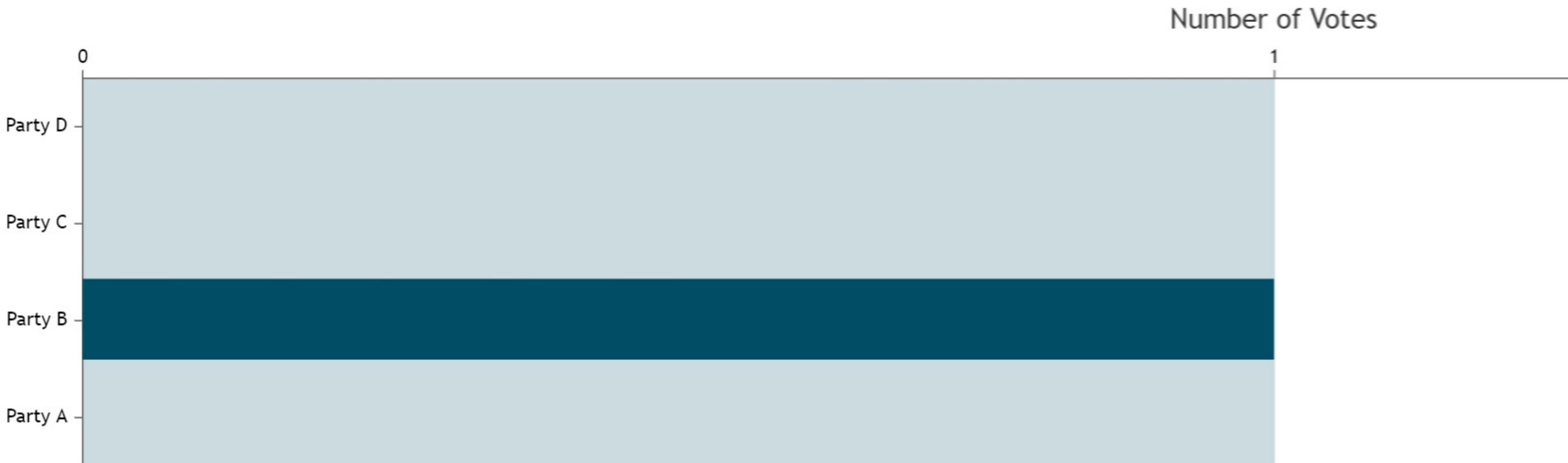
Already Casted!

HERE WE GO !

VOTE

CHANGE PASSWORD

READ RESULTS



#	Voter ID	Vote	Timestamp	hash
1	08f7a5b4efd26b26de1c2c3a7a87db0649a2b08c	B	2022-06-09 16:37:38	031e59db1464c7f2a4632636e6b5dce019da7c48

Face Recognition







Block Chain





Does this secure voting
system achieve secure voting?

definition 1

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definition 2

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definition 3

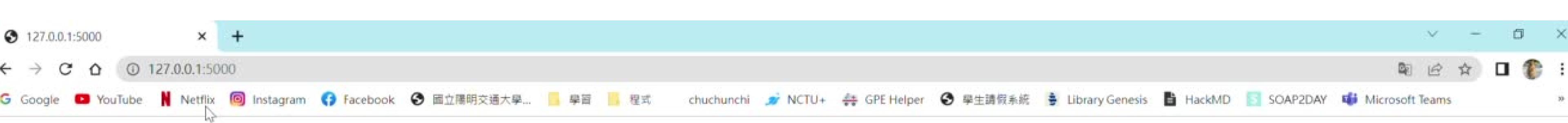
The secrecy of the vote should be guaranteed during casting, transfer, reception, collection and tabulation of votes

definition 4

The secrecy of the vote should be guaranteed during casting, transfer, reception, collection and tabulation of votes

Demo





Start Voting

IDNamePassword

make sure you open your camera before login

[Sign in](#)[Read Results](#)

Pros & Cons

Not limited by space

Malicious use

Save time for voter

Secrecy of python files

Reduction of manipulation

Fast and accurate

Reduce of cost

1

- option configuration

2

- login failed when two or more faces showing before camera

3

- the camera will be turned on once user login our system

Future Work

Progress is the activity of today and the assurance of tomorrow .

--Emerson, American thinker

Conclusion



Reference

<https://github.com/manangupta12/Secured-Voting-System/>

<https://github.com/GottfriedCP/Blockchain-based-E-Voting-Simulation>

<https://lkm543.medium.com/%E7%94%A8python%E8%87%AA%E5%B9%B9%E4%B8%80%E5%80%8B%E5%8D%80%E5%A1%8A%E9%8F%88-1-10048ab8f095>

Thanks for Listening