

Department of Computer Science

FALL 21’

**BLOCKCHAIN PROJECT**

**SUPERVISED:**

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Introduction:

to mitigate the unprecedented spread of COVID-19, contact contact tracing applications are believed to be able to break the chain of COVID-19 infections. of those people in contact is positive to the pandemic virus. Tracing back all the possible contacts to the positive case and of contact tracing. further spreading of COVID-19. our aim to curb the spread of corvid-19 infections through a blockchain-based contact tracing solution. We leverage the use of the intrinsic features of blockchain technology to deal with the contact tracing challenges. ledger that is decentralized with tamper-proof and immutable of all the nodes hence it will help mitigate the spread of infections.

Stake Holders:

* Dapp users
* Oracles
* Covid-19 testing centers

Implementation/Working:

* Mobile phones will pickup the location of the person. These longitude and latitude are sent to location tracking Smart Contract
* Registered Oracles can execute the notification Smart Contract only
* Red, Yellow, Green will be assigned by the testing centers after the test results are received.
* Red means infected.
* Yellow means contact warning.
* Green means covid negative.
* Once the notification is received by the Dapp the app will look for the other Dapp users which are in close proximity, and when a infected user comes in range the user will be notified that he/she can get infected.

Tools/Languages:

* Solidity
* Ethereum Remix

Conclusion:

I have implemented decentralized blockchain- based contact tracing solution to mitigate the spread of COVID-19. into COVID-19 contact tracing applications. we leveraged blockchain`s built-in features to safeguard users' information when using contact tracing applications. proposed approach using cost and security parameters that the proposed solution also ensures privacy and can be easily adapted into different types of contact tracing applications as per their needs and requirements with Hence, leveraging our solution for contact tracing applications can assist in curbing the spread.