



PRESENTER INFO



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- graduated from Information Technology at York University
- interest in blockchain technology began with benefits in health care system





EXISTING ISSUES SHARING MEDICAL DATA:

- Health care system is slow to inform public of possible outbreak
- For covid-19, the outbreak could have been known earlier if hospitals were able to record covid-19 cases, and other hospitals globally could be warned

BUSINESS PLAYERS

DOCTORS



PHARMACIES



RESEARCHERS



MEDIX BLOCK PARTICIPANTS







NETWORK FORMED BY TRUSTED PEERS GLOBALLY

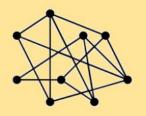
- → Hyperledger Fabric
- → Encoded in a chaincode
- → Ensures data security and privacy













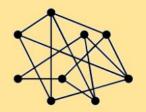






HEALTH CARE PROVIDERS

- → Hospitals record cases based on illness
- → MedixBlock will handle stats to inform all participants about a potential outbreak
- → Organizations that are part of MedixBlock can pay to access the records of areas where there's a potential outbreak







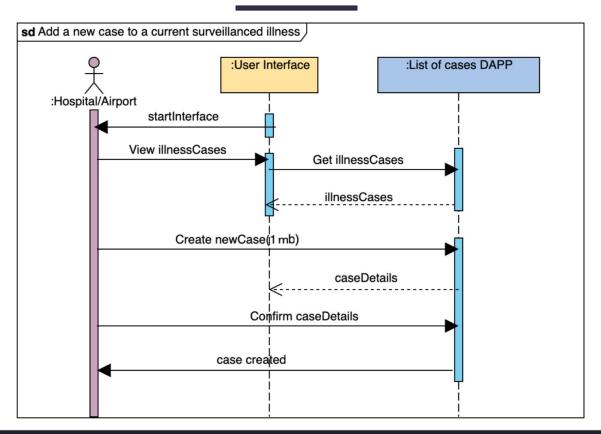




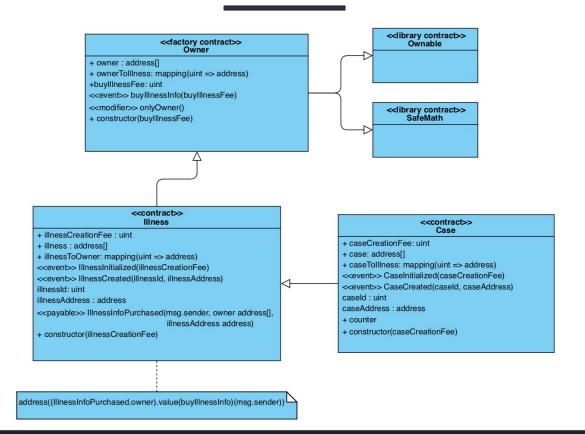
TOKEN MODEL

- → New users receive fixed amount of MB tokens
- → New illness created, 1 MB token is spent
- → Each case reported, 1 MB token is spent
- → Earn MB by other users paying for information

SEQUENCE DIAGRAM



UML CLASS DIAGRAM













Prototype

WHY MEDIXBLOCK?







- → Hospitals record cases based on illness
- → MedixBlock will inform all participants about a potential outbreak from an area
- → Cases are recorded into the system right in the hospital
- → Data cannot change
- → Reduces concern over governments altering data
- → Based on data collected about population of the area and number of cases, MedixBlock can determine level of risk that illness poses



CALL TO ACTION

- Current situation calls for a better method of keeping the public informed, and sooner
- This is an opportunity for us to shape the world and better it with new and upcoming technology

