

ERC721 COVID-19 Passports

A secure way to returning to normal

Team



Matthew Glezos - MBA
Marketing Blockchain Specialist



Felipe Muriel - Engineer Blockchain Developer



What we are

We believe that a vaccine passport program would benefit from being on the Ethereum network using ERC721 tokens to ensure a secure, cost effective, and ease of use program



Problem Statement



Despite the Vaccine being a key tool in fighting the COVID-19 Pandemic many are against taking it and will likely try to create their own fake passports as evident with anti-maskers creating their own fake exemption card.



Who has the most to lose?

Sports Industry

- Last game in Canada with fans in attendance was March of 2020
- NHL expected to lose \$1 billion this season

Tourism

- International travel is all but non existent
- Air travel revenue dropped by 91%
- Hotel accommodation by 71%

Bar and Restaurants

- Restaurants and Bars operating at 40% loss, when allowed to open
- Over 10,000 restaurants have closed down permanently

- 44% of households experienced some form of job loss
- Government spending will result in inevitable tax increase











Competitive Analysis

Physical Passports

Digital Off-Chain Passports

ERC721 Passport

- ✓ Easy to Fake
- ✓ Difficult for employees to determine authenticity
- Card an additional avenue to spread COVID
- ✓ Costly to create and mail to millions of Canadians
- ✓ Time consuming meaning many will be waiting for their passport months after vaccination

- ✓ Difficult but not impossible to fake
- ✓ Easy for employees to determine authenticity
- ✓ Reduce face to face with employees to lower risk of COVID
- Can be created and distributed cheaply
- ✓ Potentially exposes more than vaccination status when tying passport to health card

- ✓ Impossible to fake.
- ✓ Easy for employees to determine authenticity
- ✓ Reduce face to face with employees to lower risk of COVID
- ✓ Gas fees can be controlled by creating own Ethereum blockchain
- ✓ Can limit the information shared to: Name, Photo, Date of immunity

Business Model

myVaxxID lite

Funded by the government

Basic support such as updates for the app

Allow homes and small businesses to take advantage without encouring costs

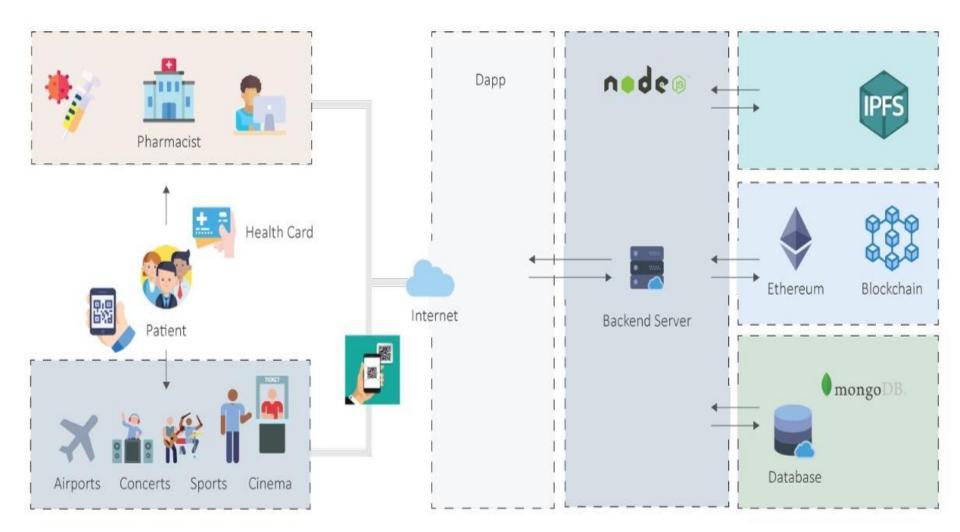
Potential for banner adds to offset the cost

myVaxxID Pro

Professional level of support to tailor the needs of larger corporations

Air Canada, NHL, NBA Cineplex and more would subscribe to this service

Would bear the grunt of the cost as they would benefit the most of the project



Demo

http://www.myvaxxid.com

For future information

Github: https://github.com/murielfelipe/myvaxxid

Email: mglezos1@gmail.com felipemuriel@sys-group.net

Website: www.myvaxxid.com



Thank You!





Why this matters?

So much is unknown about the effectiveness of the vaccine. How effective is it? Can I still get sick, be asymptomatic and pass it along? What about new variants? It is for this reason government are pushing for proof of vaccination to participate in events such as Movies, Sporting events and Travel





Main Benefits of NFT

Secure

Creating NFT passports would make it impossible to fake

Eliminates Guess Work

Employees who are responsible for checking proof of vaccination will simply have to scan a QR code, eliminating human error from the equation

Simple Rollout

Once the passport is created the QR code can be distributed electronically instead of a hard copy needed for creation and distribution to 35 million Canadians







Immunity expires

As speculated the vaccine does not provide everlasting immunity

Alter the program to put an expiration date

New Variants

New variants emerge requiring a new vaccine

We will update the application to allow new vaccines and the front end application to list the variants inoculated for

Natural Disaster

Server for Application and Database destroyed from a natural disaster

Have an alternative location in a different region

SWOT

Strength

- Impossible to Fake
- Creates a secure database
- Eliminates Guesswork
- No physical contact required

Opportunities

- Governments around the world plan on implementing one
- Different variants means potential for multiple vaccinations

Weakness

- Would have to create own Ethereum blockchain to control gas fees
- Costs every time you want to query

Threats

- Volatile Ethereum price
- Resistance from anti lockdown groups pressuring against such plans



SWOT ANALYSIS

STRENGTHS

- Impossible to Fake
- Creates a secure database
- Eliminates Guesswork
- No physical contact required

STRENGTHS

- Governments around the world plan on implementing one
- Different variants means potential for multiple vaccinations

WEAKNESSES

- Would have to create own Ethereum Blockchain to control gas fees
- Costs every time you want to query

WEAKNESSES

- Volatile Ethereum Price
- Resistance from anti lockdown groups pressuring against such plans

PESTEL

P

E

S

Т

Е

L

Political

Federal and Provincial governments pushing for 100% vaccination rate Economic

Mass
unemployment
and financial
loss by all
economic
sectors
caused by the
pandemic

Social

Anti maskers have expressed there refusal to take the vaccine Technology

Ethereum
Blockchain
has not been
hacked since
the DOA
incident,
creating a
secure
environment

Environment

Ethereum's eventual switch to proof of stake will eliminate high energy mining machines

Legal

Hashing the patients data will prevent

