



ERC721 COVID-19 Passports

A secure way to returning to normal



Team



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Marketing Blockchain Specialist



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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



Canadians

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





Competitive Analysis

Physical Passports

- ✓ 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

Digital Off-Chain Passports

- ✓ 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

ERC721 Passport

- ✓ 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 incurring costs

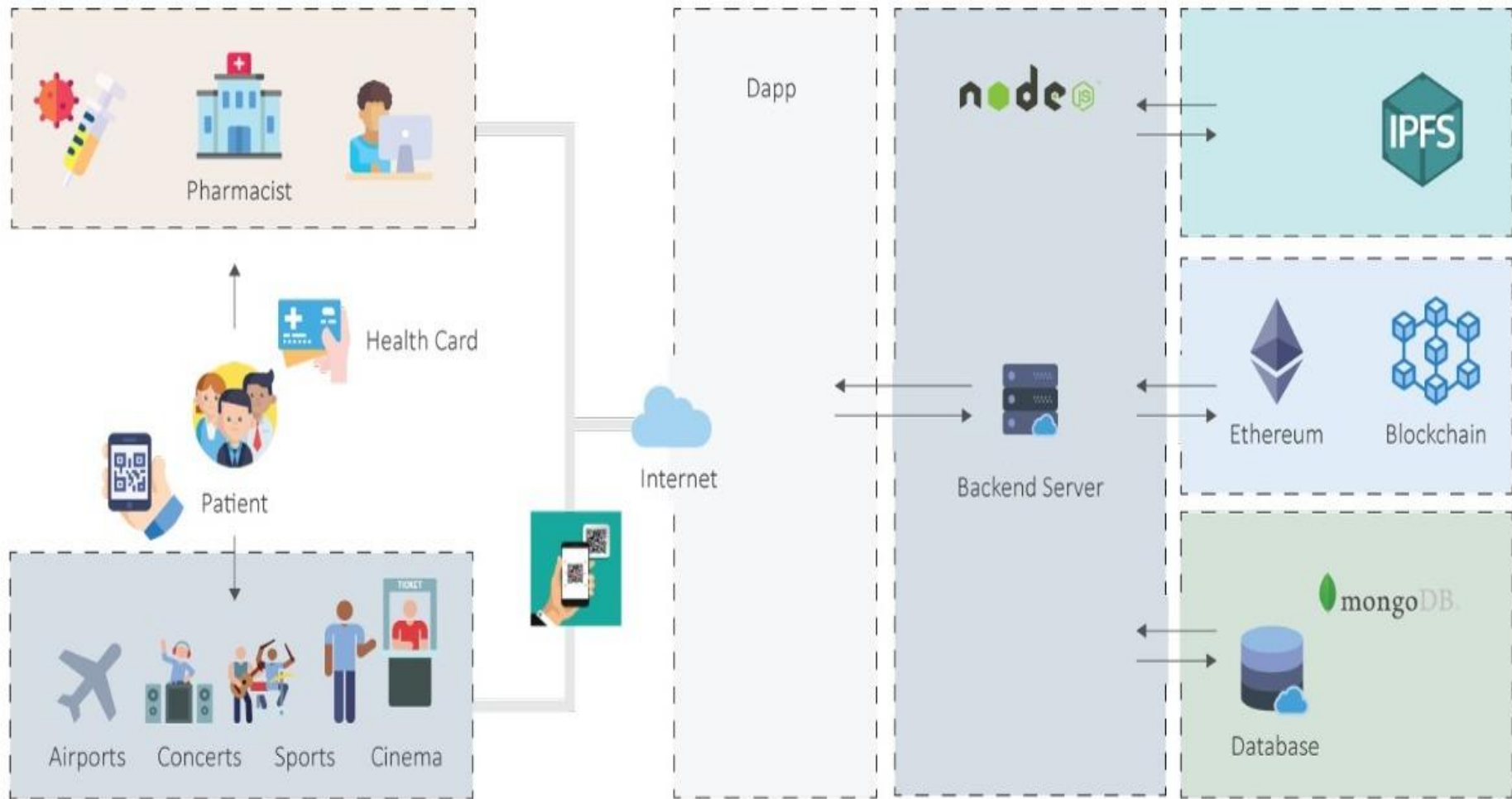
Potential for banner ads to offset the cost

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 brunt 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>

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Website: www.myvaxxid.com



Thank You!

Appendix



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





Contingency Plan

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

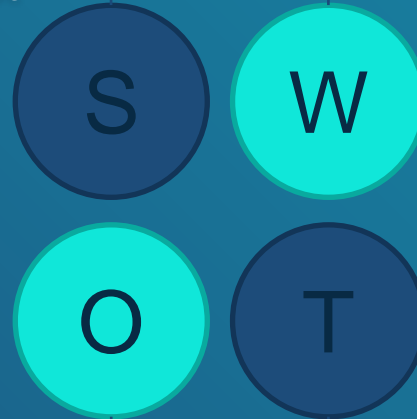
SWOT

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

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WEAKNESSES

- ◆ Volatile Ethereum Price
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PESTEL

P

Political

Federal and Provincial governments pushing for 100% vaccination rate

E

Economic

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

S

Social

Anti maskers have expressed their refusal to take the vaccine

T

Technology

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

E

Environment

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

L

Legal

Hashing the patients data will prevent

TIMELINE

Develop the Backend
to create ERC 721
Passports

Sell the corporate
version to major
businesses like Airlines
and sports leagues

Change the program
for other vaccines such
as travel, animal and
flu

Create Passports

Easy to Use application

Sell Corporate Version

Roll out Passports

Program for future Vaccines

Develop the
application that will be
used by Canadians

Blue is the colour of
the clear sky and the
deep sea