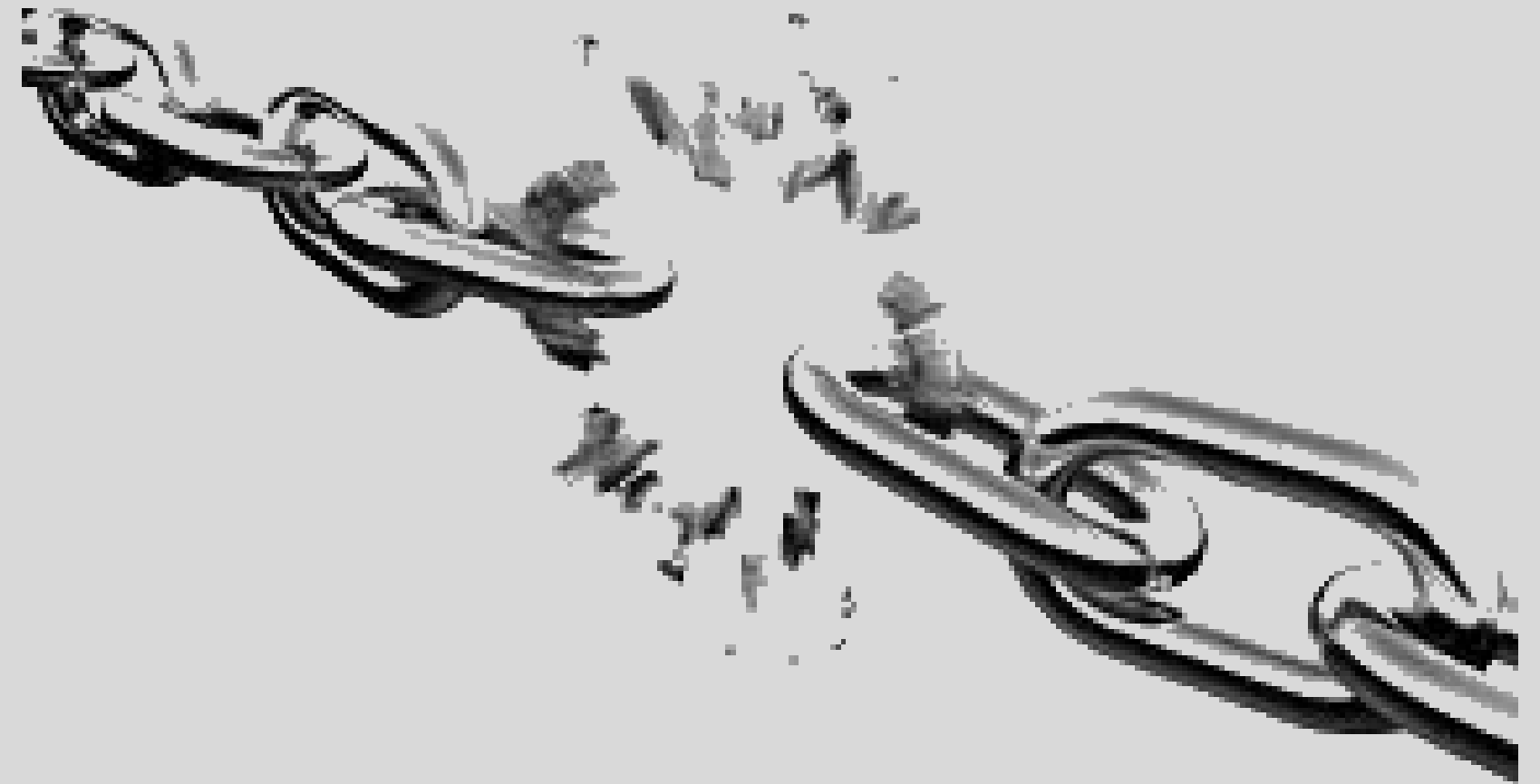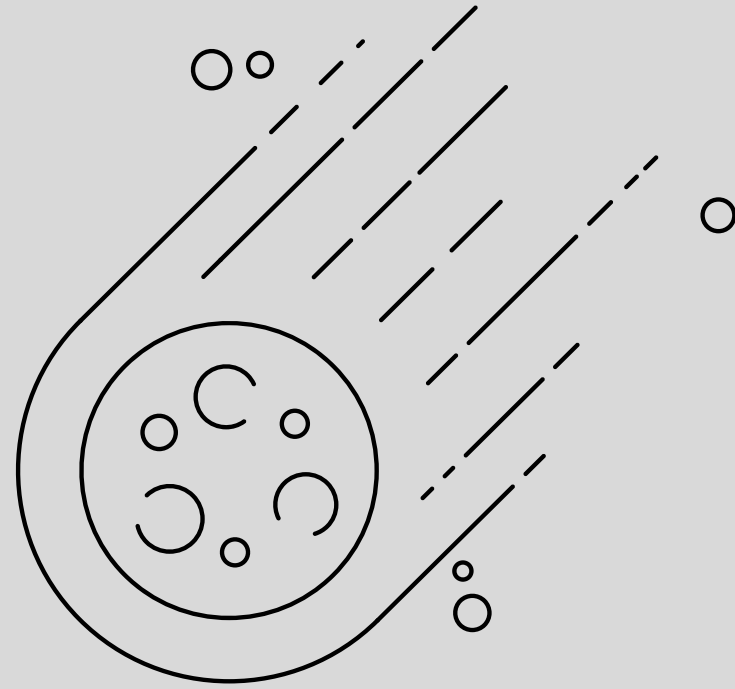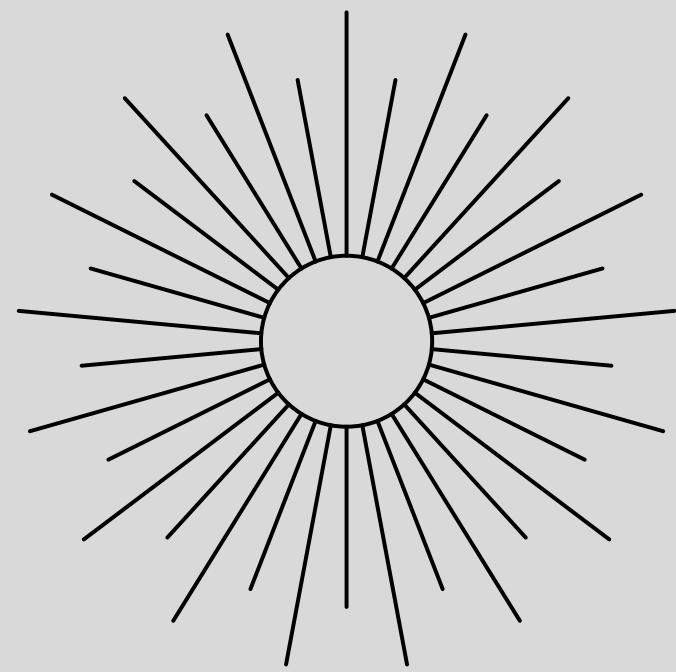# BreakTheChain

An initiative to eradicate Covid-19
through Public Support and Awareness

Problem

1 1.5 million people have been infected by COVID 19. 88k fatalities around the world

2 Health care systems have been overwhelmed and supplies are running out

3 Lockdowns around the world have disrupted the economy making survival difficult
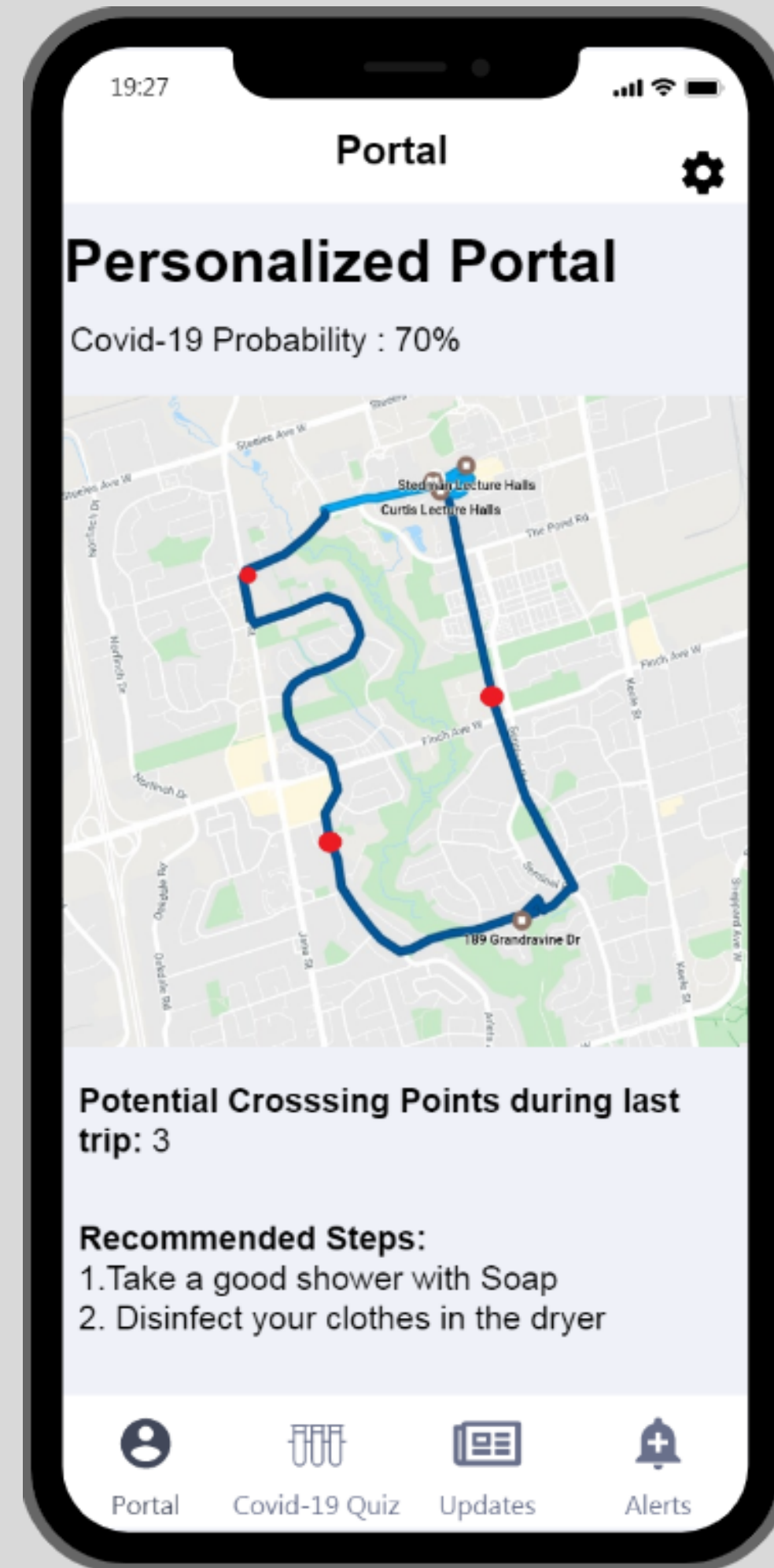
Utopia

1   Solution to this pandemic starts at every individual - prevention is the only way out.

2   We need to curb the spread at grassroot level. Supporting our hospitals is necessary but it will only reduce symptoms, not stop new infections

3   Every individual needs to adopt prevention lifestyle - staying indoors, improving hygiene, and inculcating healthy habits.
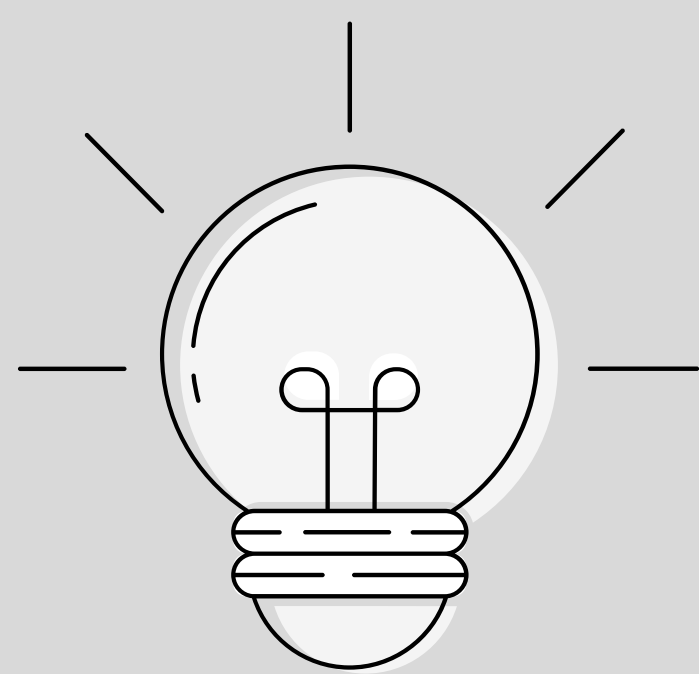
Our Product

A personalized solution that uses AI and advanced data analytics to contact trace, determine the risk of infection, and thereby suggest precautions.

Prototype

https://share.proto.io/GPGXSN/

Timing

1   It is extremely important to get this solution up and running as soon as possible given the exponential spread of COVID19.

2   Our product prevents onset of infection, which further reduces strain on our healthcare system.

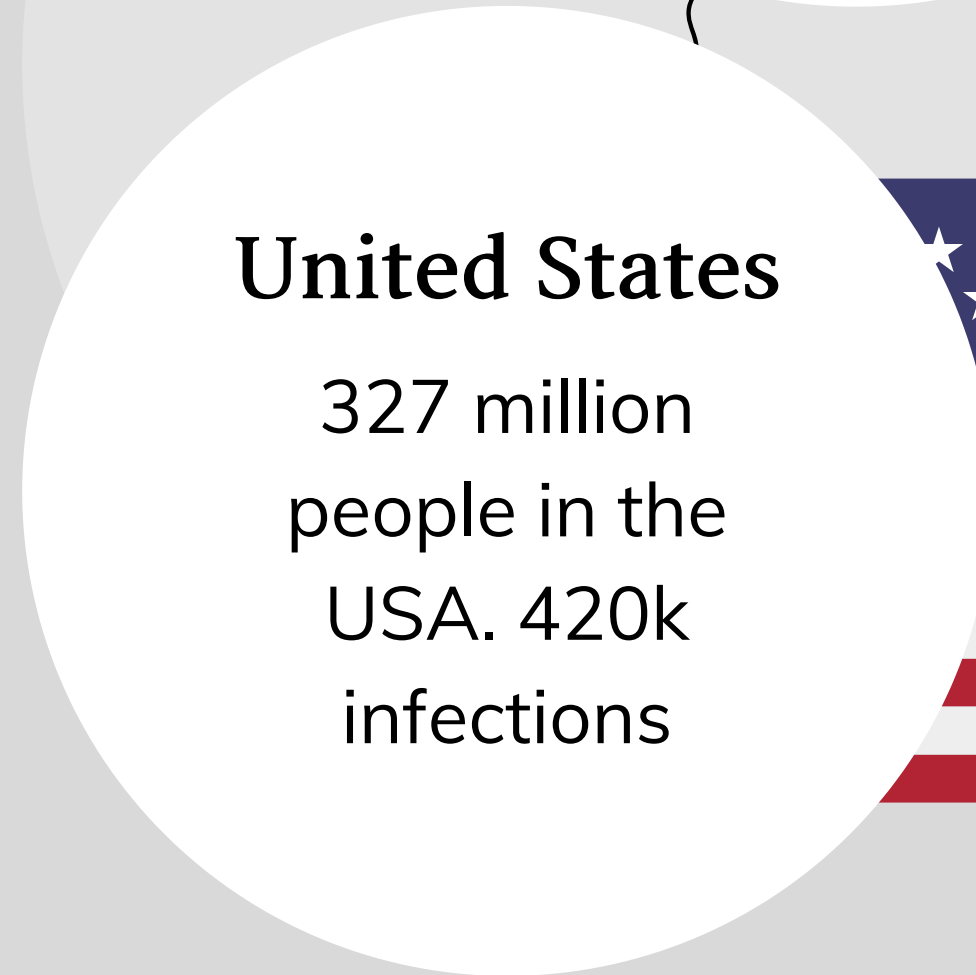3   We need to fight this quick and get our economy up and running asap!

Target Market

- Initial release target market will be North America.

- However we aim to deploy our app all around the world

CANADA

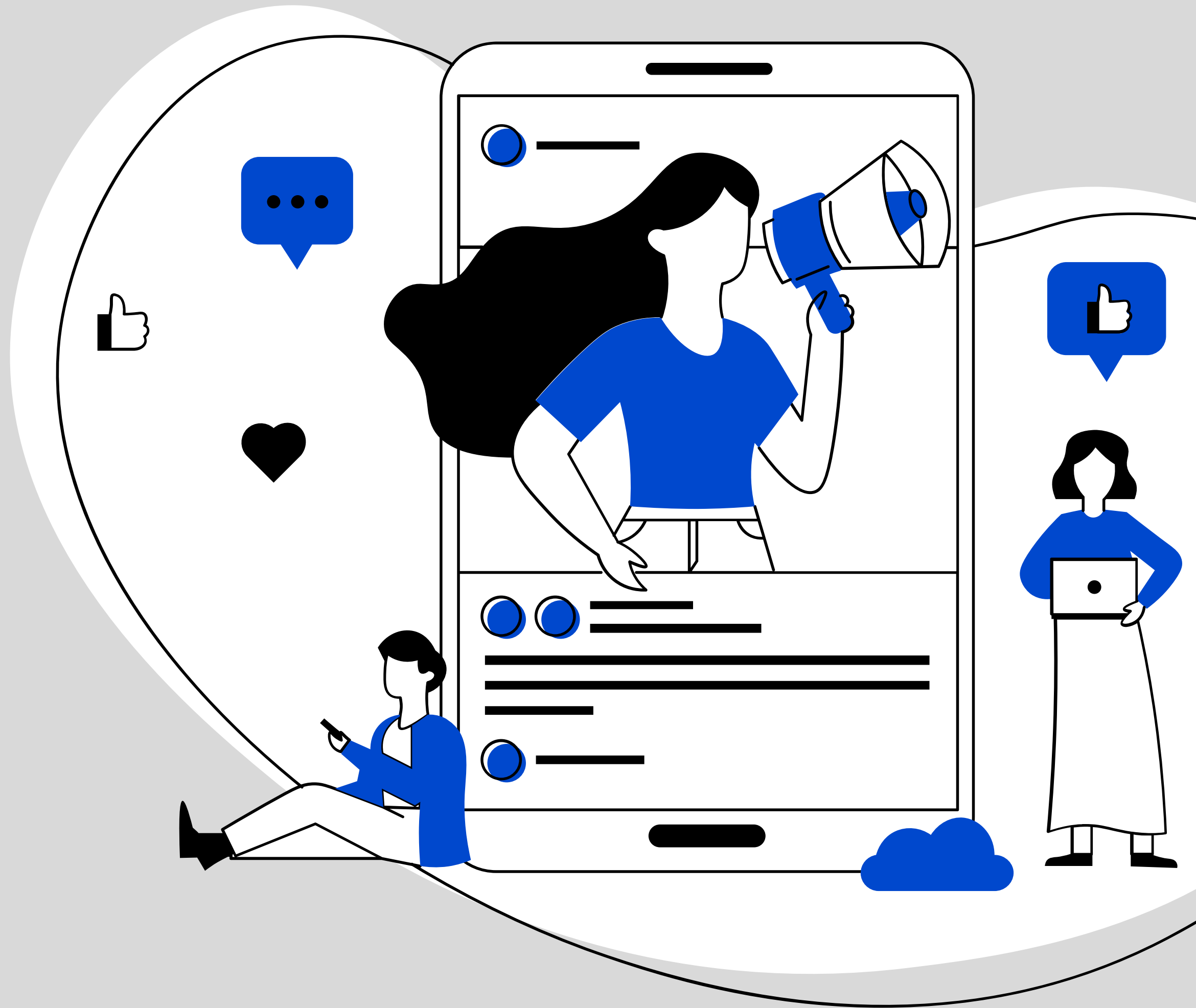38 Million People in Canada. 19k infections

United States

327 million people in the USA. 420k infections
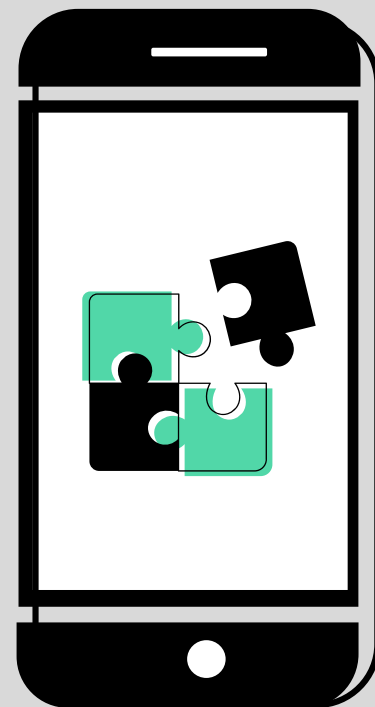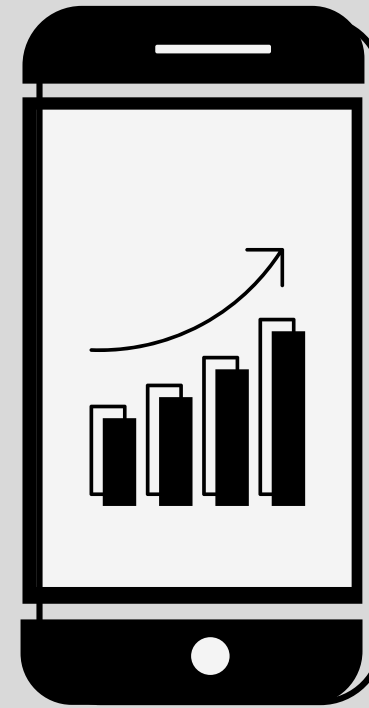
Competitive Advantages

- Most of the industry workforce is focused on manufacturing ventilators and personal protective equipments for health care workers.

- We aim to take a proactive approach to restrict the virus from entering our body

No Test
Infection Prediction

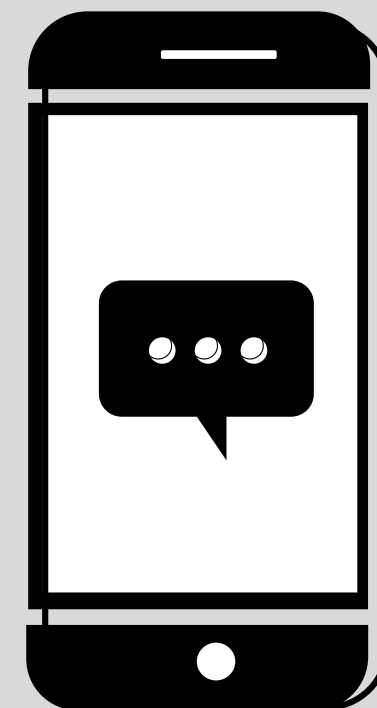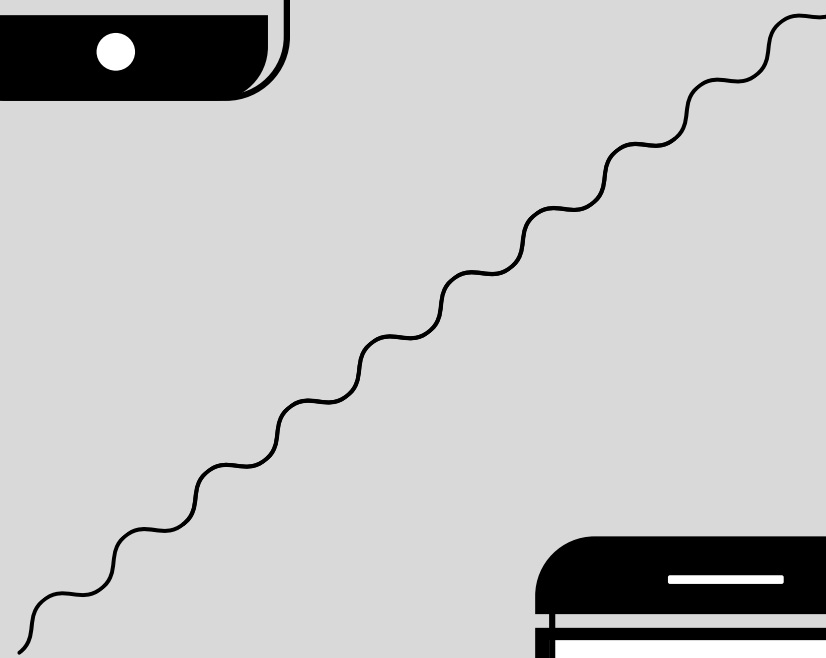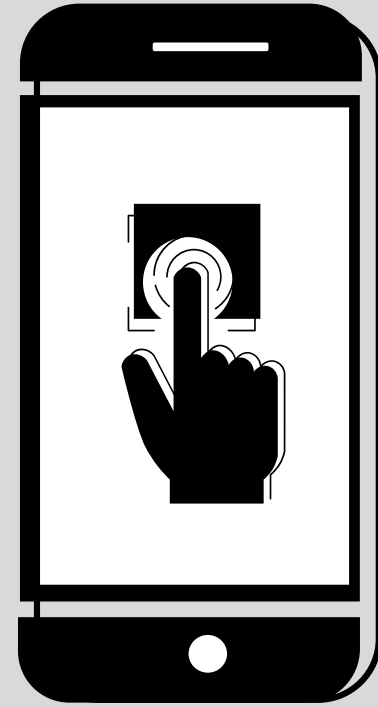Using some basic survey questions and probabilistic machine learning, the system determines a probability of infection

Enhanced
Contact Tracing

Using the probability of your being infected as well as that of people that you come across, the system identifies at risk individuals

Personalized precautionary recommendations

Provide personalized recommendations, alerts, and reminders to individuals to practice care. Alerts to stay indoors, periodically inhale steam, and wash hands

Intelligent risk monitoring

From the network of user data, predict the risk of infection at a particular location and warn the user to avoid high risk areas.

Financial Breakdown

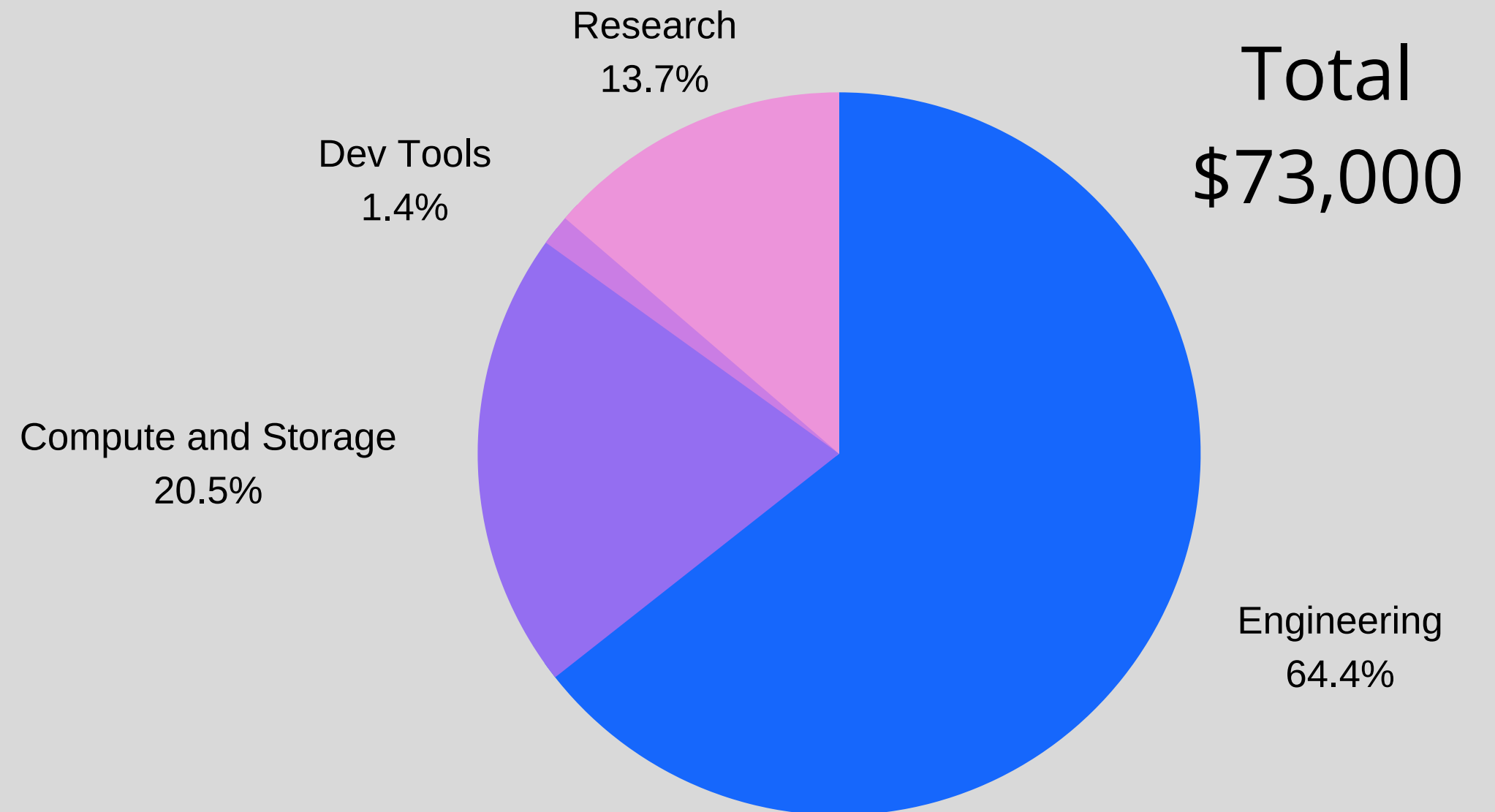**Research And Development**
- AI consultation ~ $10,000

Engineering
- Software Architecture ~ $15000
- UI/UX Design ~ $12000
- Software Development ~ $20000

Amazon Web Services
- Compute ~ $5000
- Database ~ $10,000

Development Tools
- Development IDEs~ $500
- UI/UX Prototyping tools ~ $500

Research
13.7%

Dev Tools
1.4%

Compute and Storage
20.5%

Engineering
64.4%

Total
$73,000

About Us

We are a group of Engineers and Computer Scientists with relevant industry experience and belong to best schools in Canada.

Where we work?

Where we study?

The Team

Dhruv Sharma
AI and Analytics Lead
Machine Learning,
University of Toronto

Aayush Sharma
System Integration Lead,
Mechatronics Engineering,
University of Waterloo

Lakshay Sharma
Software Lead,
Computer Science,
York University

Healthcare and Academic Advisors

Bal Krishan Sharma
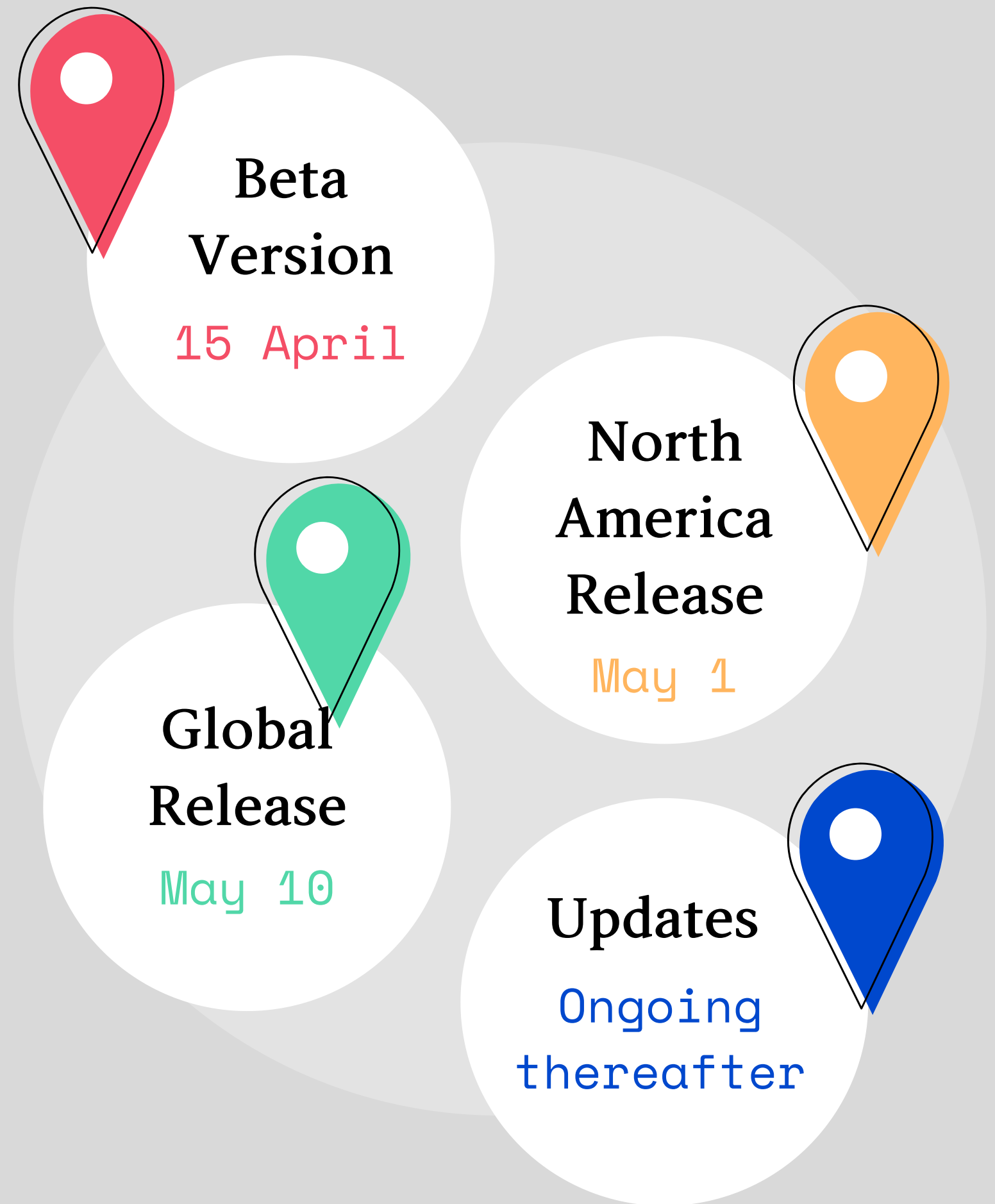Physician,
Bluewater Health,
Sarnia, ON

Sugandha Sharma
PhD Candidate,
Brain and Cognitive Sciences,
Masachussetts Institute of
Technology

Roadmap

We want to focus on proactive preventive care while numerous other people focus on reactive post infection care.

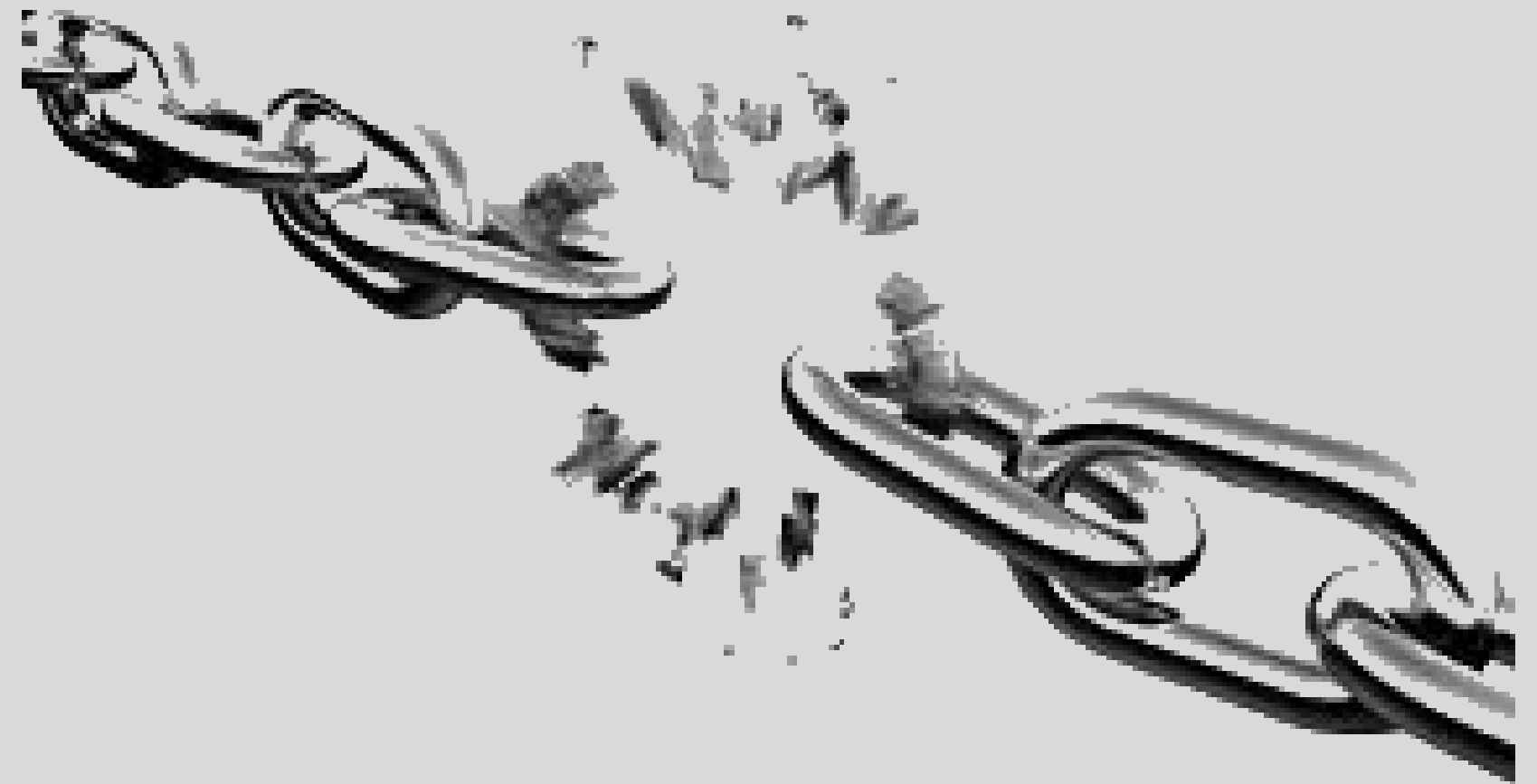Together we are sure, we will be able to break the COVID19 chain.

Beta Version
15 April

North America Release
May 1

Global Release
May 10

Updates
Ongoing thereafter

Contact us

226-224-6875

breakthecovidchain@gmail.com

www.break-the-chain.github.io

We will break the COVID chain!