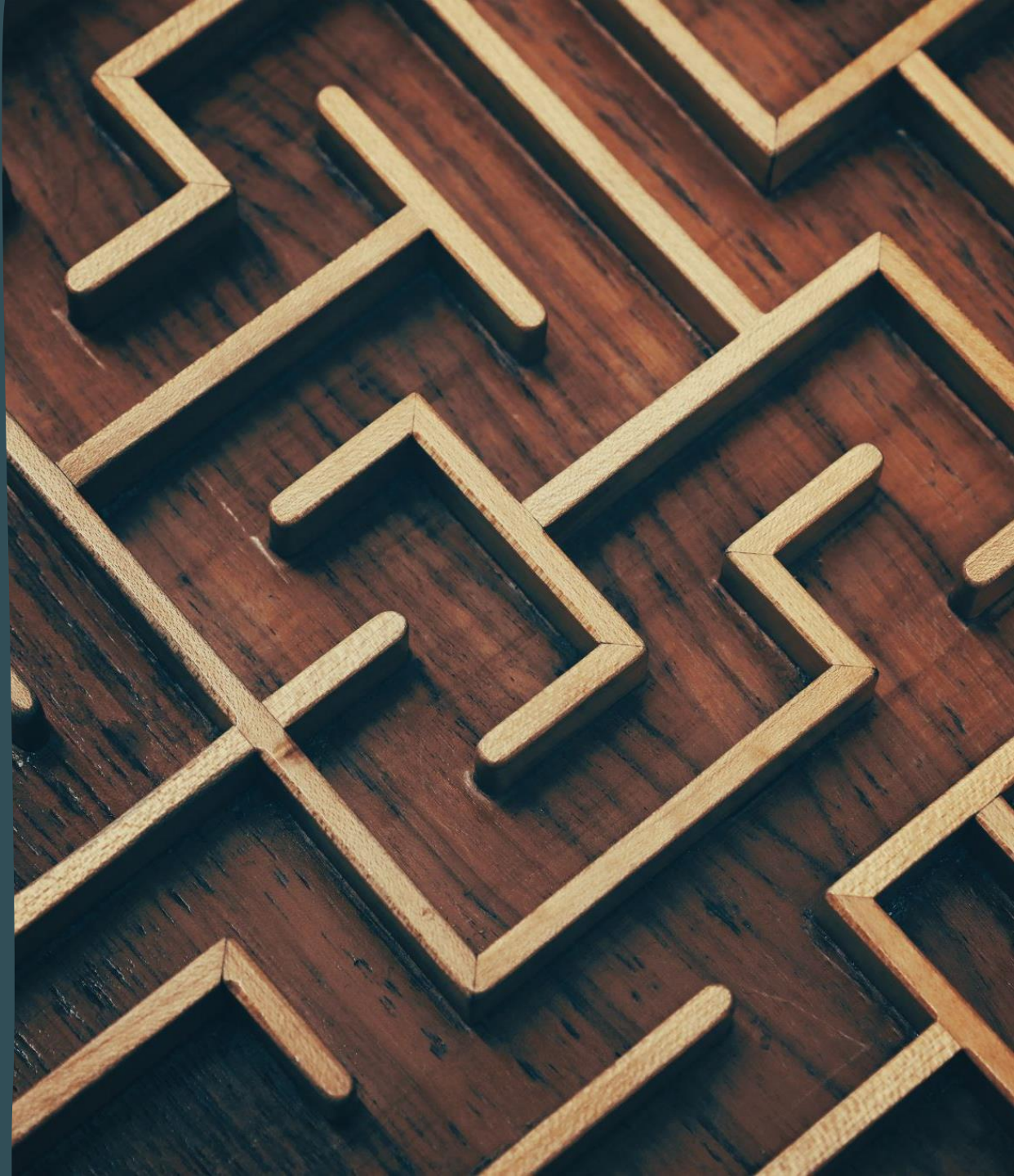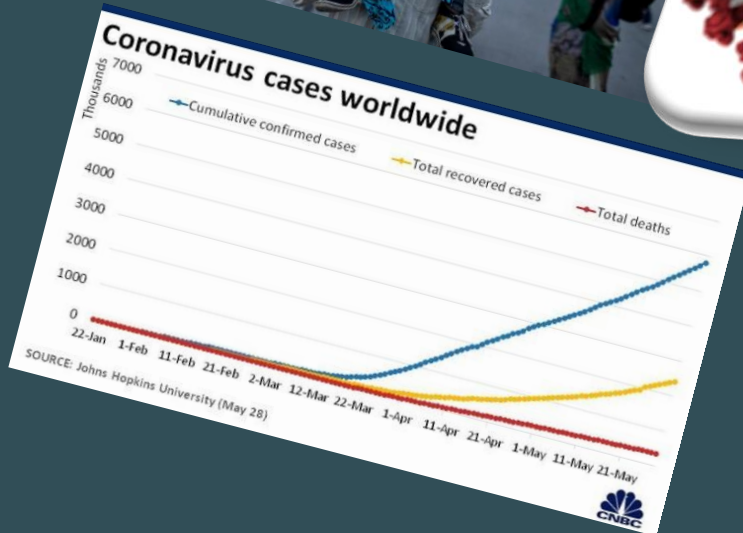# PLASM-O-PHERESIS

Team codeBlooded

Everything was fine until someone ate a Bat.

Then what happened?

Coronavirus cases worldwide

SOURCE: Johns Hopkins University (May 28)
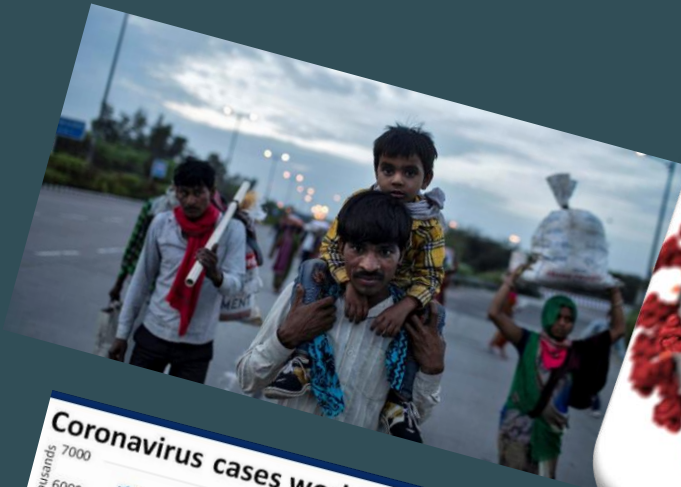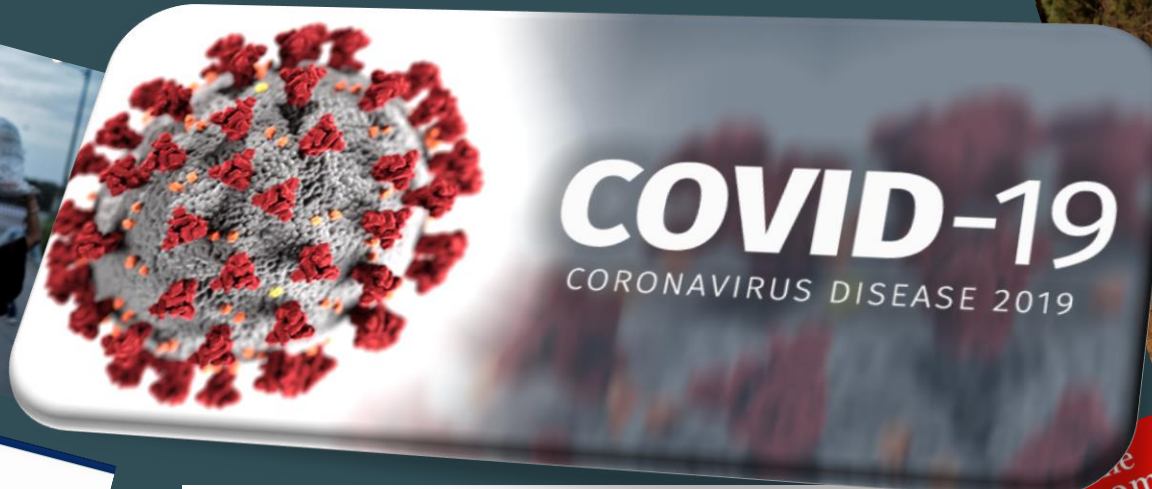
The top five global concerns

55%	Coronavirus (Covid-19)
42%	Unemployment
31%	Poverty and social inequality
25%	Healthcare
24%	Financial/Political corruption
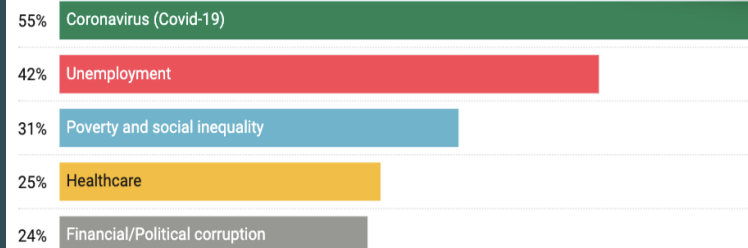
Research among adults aged 16-64 in 27 participating countries. c. 19,000 per month. (May 2020).

Source: Global Advisor • Get the data • Created with Datawrapper

COVID-19: AMERICA'S HIGH DEATH TOLL

In the midst of all tension and stress and confusion, we found a ray of hope.

Plasma Treatment

But, there was another problem.

Where to find plasma donors?

Then, we got our first plasma bank...

With more plasma banks opening in cities, the issue "seemed" to be resolving but wasn't much effective.

- The major cities of various states were coming up to open plasma banks to receive plasma but the rural area was left out.

- Moreover, the number of cities having plasma banks were still on fingertips.

Then we came up with "plasm-o-pheresis"

- plasm-o-pheresis is an online portal assigned to some specific healthcare centers and hospitals of urban cities and rural areas to overcome the difficulty to find a plasma donor.

- plasm-o-pheresis also saves the effort and investment to setup a plasma bank.

- Now, with a few clicks, you can save your time to find a plasma donor and saves lives of hundreds of thousands.

Story of Suresh, father of Mukesh

- Suresh is an over optimistic guy.

- He never wore masks in public and didn't follow the social distancing norms.

- Then, he suffered through the symptoms of covid.

After 2 days, Suresh was tested covid positive and was hospitalized.

- Suresh was very critical and doctors recommended plasma treatment.

- But, Suresh used to live in Mirzapur, a remote village in UP where finding plasma donors was next to impossible.

- Then, someone advised the hospital staff to use plasm-o-pheresis to find nearest plasma donors.

After following some procedures, the healthcare center got access to plasm-o-pheresis

- Suresh found an active plasma donor in just 6 hours and his life was saved.

plasm-O-pheresis

- "plasm-O-pheresis" is a portal which keeps the database of all the active plasma donors in the neighboring area.

- It helps in saving time for all the critical patients needing plasma for their covid-19 treatment and save their lives.

- "plasm-O-pheresis" can help the healthcare in rural areas as well due to the low low necessity of foundation and low complexity of the technology.

Social impact analysis with Covid-19.

- plasm-o-pheresis enables hospitals and health care centers in rural as well as in urban areas to maintain an active database of all the plasma donors.

- At the time of plasma requirement, rather than putting social media queries, hospital staff can find the plasma donor using their database only and save a lot of time.

- plasm-o-pheresis is more useful for rural areas where infrastructure and funds for plasma banks are not possible.

Technology Stack Used

- Frontend –

    - HTML, CSS, JS

    - Bootstrap

- Backend –

    - Node.js

    - MongoDB

    - Express

    - Ejs

Insight of how "plasm-O-pheresis" works
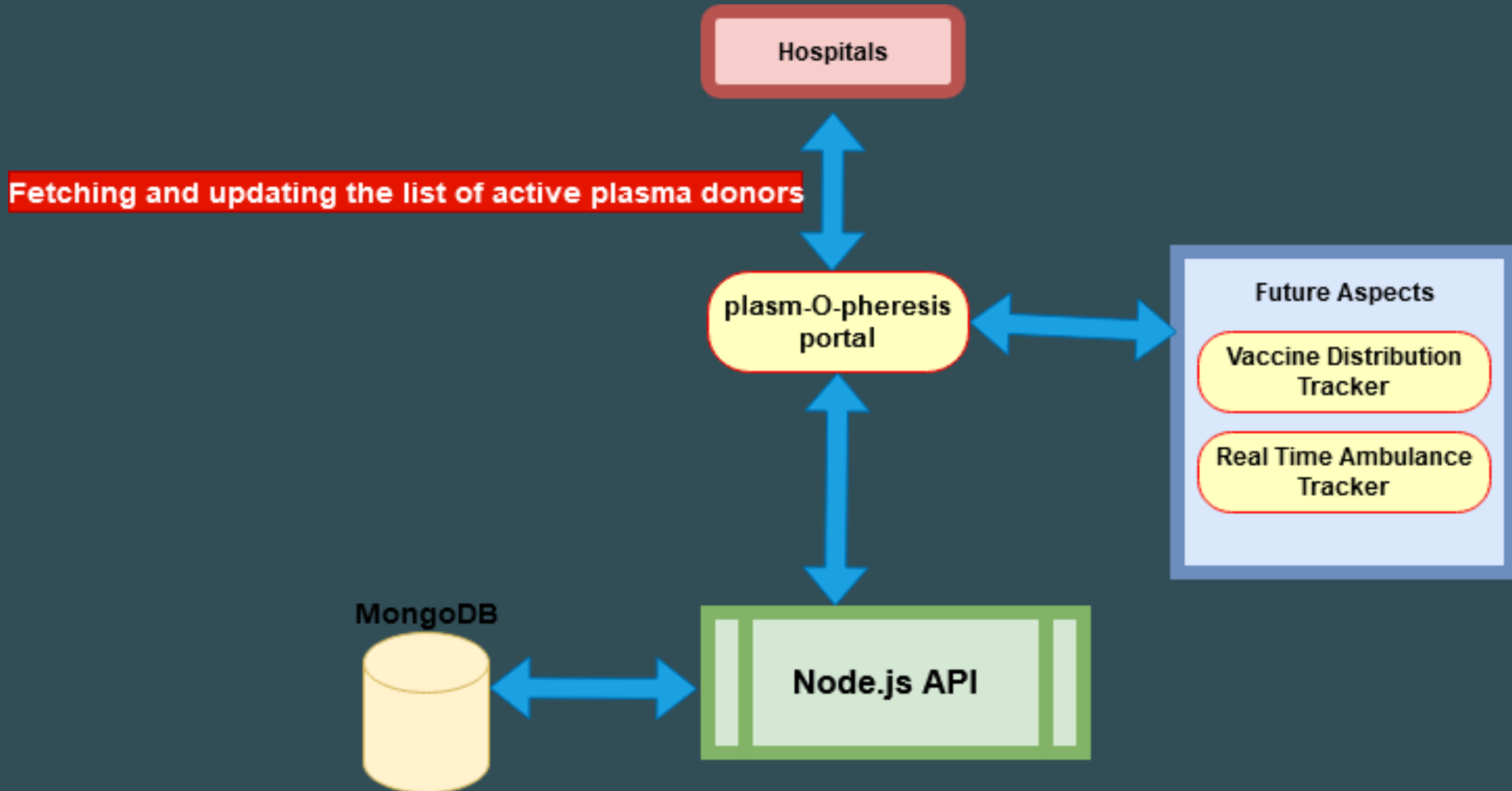
About us

Project Title– "plasm-O-pheresis"

Team – Team codeBlooded

Led by– Shivam Shekhar

Contributors – Shubhra Agarwal, Ankit Das

Theme – Health Technology in Rural Areas

thank you!