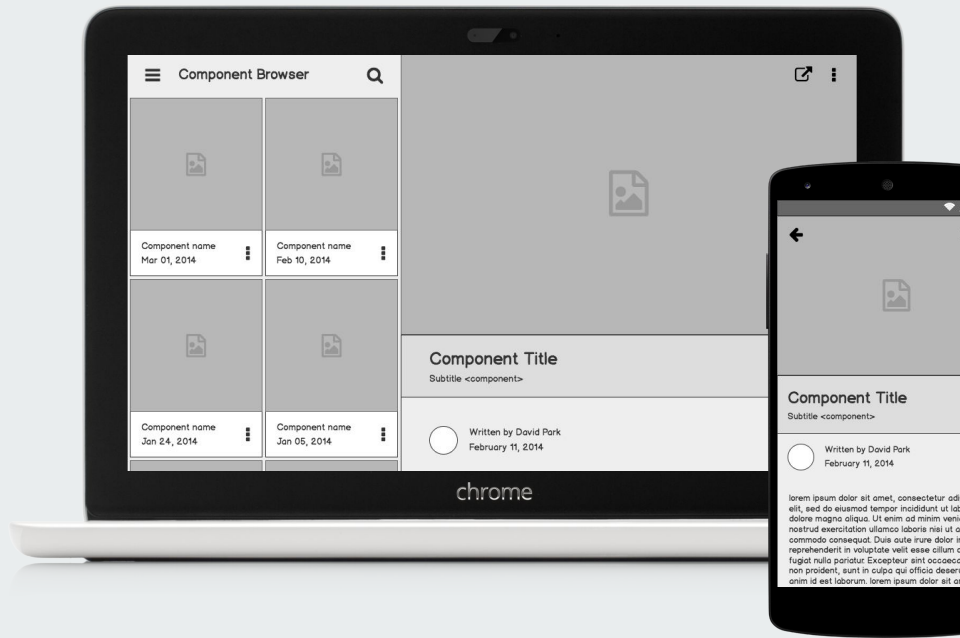




Public Transport Post COVID



Outline

The Problem

Solution Proposal

Wireframes

Next Steps



The Problem



Problem statement

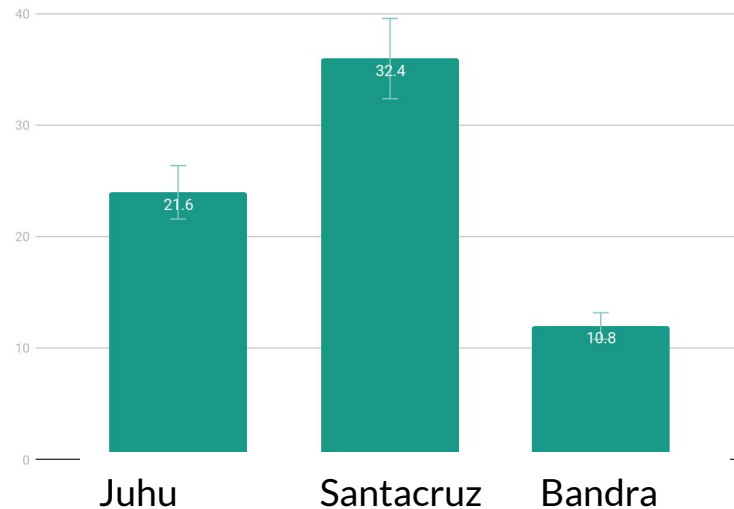
Since cases in Mumbai are increasing rapidly and with BEST transport functioning in the city, it has become difficult to cope up with fighting the virus, people need to travel, and public transport is the lifeline of the Mumbai.



Our Prototype Route

We have done research and found a bus route that is both, used by people and affected by COVID19

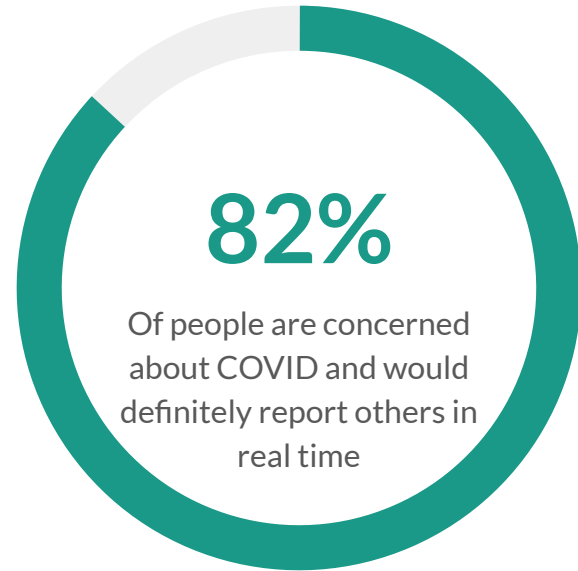
Net Promotor Score





Crowdsourcing data is difficult

Relying on human reports for too long is not feasible



Solution Proposal



Solution description

We will collect reports on mask and coughs, etc calculating the risk factor which is allowing users to be aware of the situation inside the bus before entering.

Data is sensitive and will be stored on blockchain, computer vision will be used to train our ML model and in the future reports will not be necessary.



Wireframes

Live Risk Factors along the GPS route of the BUS

Public Transit Management Post Covid-19

Reports

Map

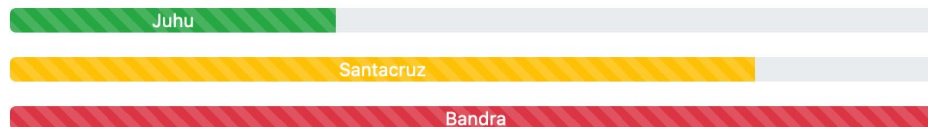
About



Bus Route Risk Factors



Individual Bus Stop Risk Factors



#	Location	Reported Cough	Not Wearing Mask
1	Juhu	2: 🧑	5: 🧑
2	Santacruz	1: 🧑	3: 🧑
3	Bandra	2: 🧑	3: 🧑

Report



Report (Cough | No Mask)



Inside Bus

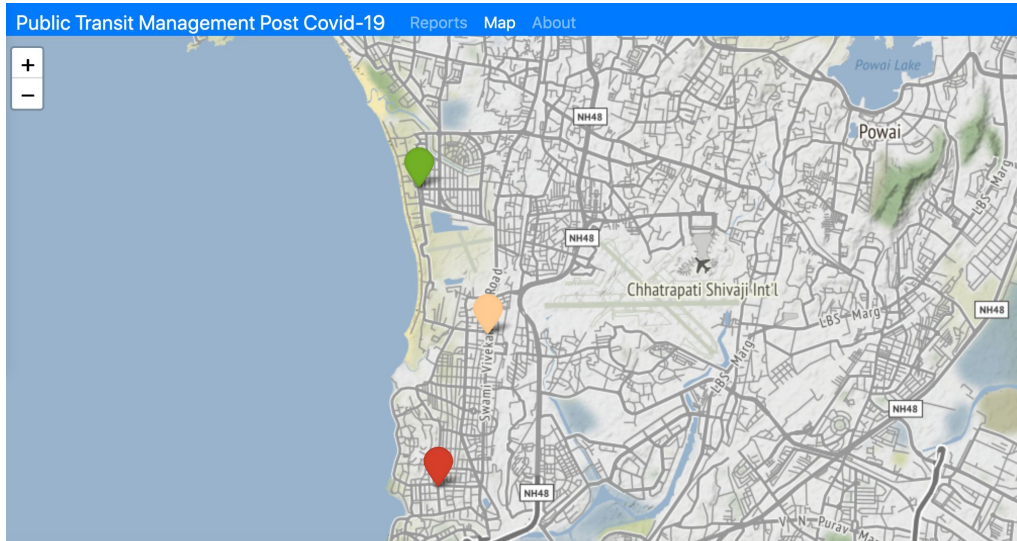


Bus Stop

Confirm Report

Type of report





A live GPS map along with risk factor at each stop

Contract



BYTECODE  

```
{
  "linkReferences": {},
  "object": "608060405234801561001057600080fd5b506102d7806100206060
  "opcodes": "PUSH1 0x80 PUSH1 0x40 MSTORE CALLVALUE DUP1 ISZERO F
  "sourceMap": "25:181:0:-;;;8:9:-1;5:2;;;30:1;27;20:12;5:2;25:18
}
```

ABI  

▼ 0:

- ▶ constant: false
- ▶ inputs:
- ▶ name: sendHash
- ▶ outputs:
- ▶ payable: false
- ▶ stateMutability: nonpayable
- ▶ type: function

▼ 1:

- ▶ constant: true
- ▶ inputs:
- ▶ name: getHash
- ▶ outputs:
- ▶ payable: false
- ▶ stateMutability: view
- ▶ type: function



Ethereum smart contract

What is our aim?

Transport - the need of the hour

Public transport is the backbone of the Indian Economy, with countless blue collar workers relying on the buses and trains to feed their families, we are two determined engineering students who feel that the loss to the economy is too significant to ignore and wish to develop a solution to start public transport in Mumbai

India's economy is ailing from more than Covid-19

According to the International Monetary Fund, India will be the large economy worst hit by the Covid-19

will contract by 4.5%. Just a few weeks ago, it had been predicting 2% growth for the year.

[Learn More](#) →

Coronavirus: A comprehensive guide for Indian citizens

India has reported three positive cases of a new coronavirus that has killed close to 2,800 people, mostly in neighbouring China -- where it was first detected -- and infected thousands more on every continent except Antarctica. All the three Indian patients have been discharged.

[Learn More](#) →

India starts using Remdesivir in emergency cases of COVID-19.

As the number of deadly coronavirus cases rise steeply in the country, officials yesterday allowed the

[Learn More](#) →

Coronavirus | Is the lockdown helping India?

The story so far: It has been over three weeks since Prime Minister Narendra Modi announced the world's biggest lockdown, in India, to fight COVID-19, the pandemic that has claimed over 1.5 lakh lives worldwide. Epidemiologists have said that the impact of the lockdown in slowing down infections would take at least three weeks to show.

[Learn More](#) →

Some interesting news chosen by our algorithm according to your location and nature(reporting frequency etc

[Donate to PM Cares Fund](#)



Next Steps

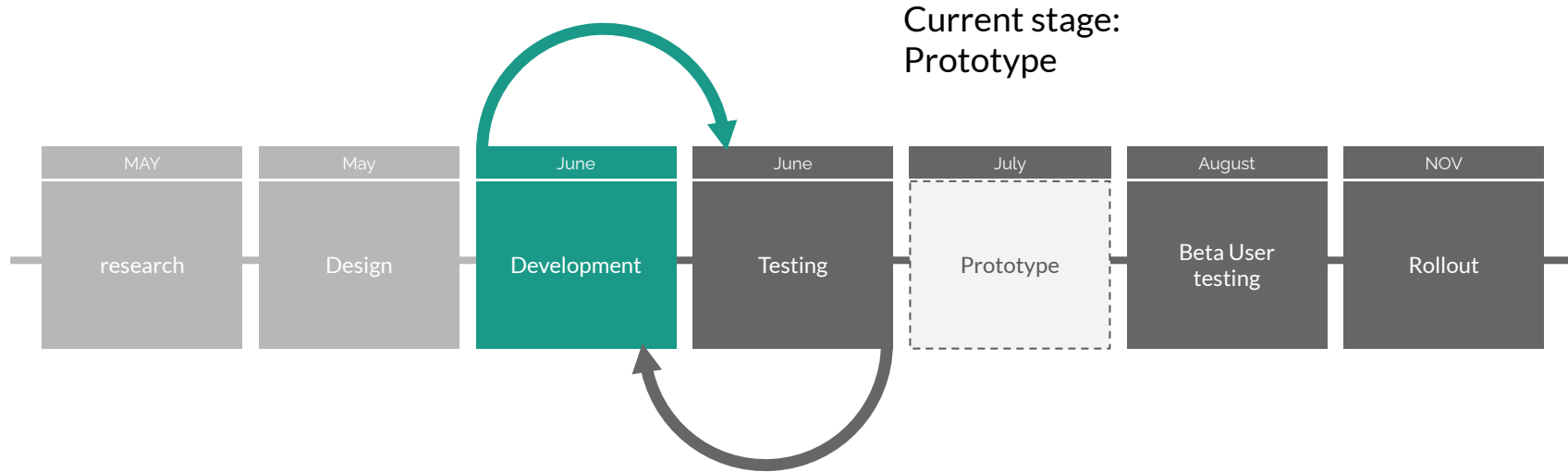


Future Scope

- Integrate Computer Vision to help train our ML model with the manual user reports
- Live GPS updates with a better risk factor calculation
- Complete integration of data on blockchain -> currently we stored the has of reports on the ethereum ropsten test network successfully with IPFS
- Adding a chatbot to have extra data which can be used with a lower weight for our ML model



Timeline



Thank You :D

