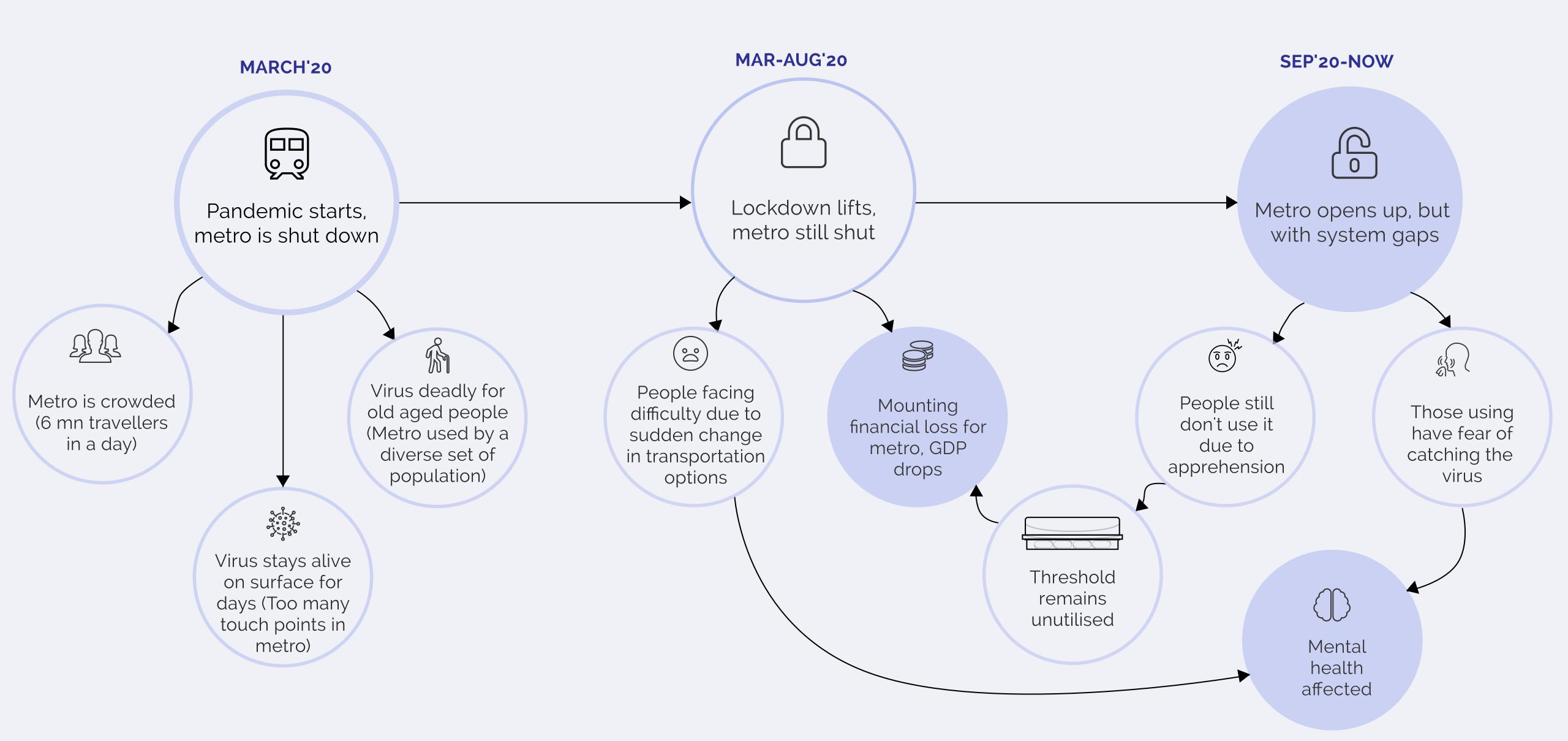


### Metro in COVID-19: A timeline

Problem Statement: Faulty reopening of DMRC services, which is unable to build trust in commuters, and hence continues facing financial loss.



# Primary Research: What does the user say?

I **interviewed 6 people** from the urban landscape- 3 who have been travelling regularly ever since the metro has reopened, and 3 who have either never travelled even once or have travelled 1-2 times but didn't continue to further.

Some notable quotes and observations have been given below:

"I haven't travelled at all through metro. My friend told me that the metro authorities are not strict at all, which is why even some people get relaxed."

Lack of two-way accountability

"There's no point of **Aarogya Setu** as a pre-emptive measure since no authority checks it."

"I check it daily for my own safety."

Willingness of people to care for own security, especially in face of system fails.

There are two routes that I can use, either by changing on Rajouri or on Rajiv Chowk. I get off at Rajouri first, and if the crowd is less I go through that. If the crowd is a lot, I go via Rajiv Chowk even though it is more time consuming.

People prefer safety over time taken

The main problem of social distancing occurs inside the train.

Some coaches are too crowded, some are too empty"

**Unequal distribution of coach traffic** 

"I have travelled only a few times in the past month, and it has been **completely empty**, until it reaches Peera Garhi (6pm, rush hours) and a **huge crowd** comes in"

"It **felt safe** before Peera Garhi even though other rules weren't being followed, but after that once everyone entered at once, the **threat of catching COVID suddenly felt real**."

There are times when the metro is either underutilising its threshold (number of people that can travel), or stretching it out too much.

## Persona + User Journey

Points of intervention

**Design Directions** 



#### Ms. Ritu Kumar, 43 years old

Office goer, travels daily by metro in fixed rush hours. Has accustomed herself to the onset of panic at seeing crowd, with people disregarding rules and precautions.

1. Waits outside metro as threshold of station reached



escalators, social

dist. followed

4. Uses

2. Enters once guard allows, thermal scan +



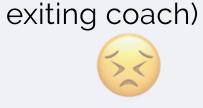
hand sanitizer



5. Moves towards ladies' coach (less empty and safe)

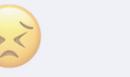


7. Exits metro on a crowded station (no



social dist. when

8. Similar experience on return journey



3. Security check + RFID gate



6. Metro travel: Masks worn, but less social dist. as no space



Checks Aarogya Setu at night to make sure no threat



Need Statement: To manage passenger use of Delhi Metro better so as to prevent spread of COVID-19, build trust, and increase travel footfall



Mr. Hritik Sharma, 20 years old

College student, travelling for the first time via metro to meet up with friend. Travelled at 11am in empty metro (after initial rush hour,) but in evening saw the metro crowd and panicked

1. Enters station as no rush, thermal scan + hand sanitizer at gate



2. Has to recharge card using cash as does TVM not working



3. Security check + RFID gate



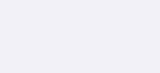
4. Uses stairs for platform, boards train from nearest coach



5. Metro travel: Moves to side coach as it is more empty, masks worn



6. Exits mero easily, as no rush at that time.



8. Coaches jam packed, no social dist. followed

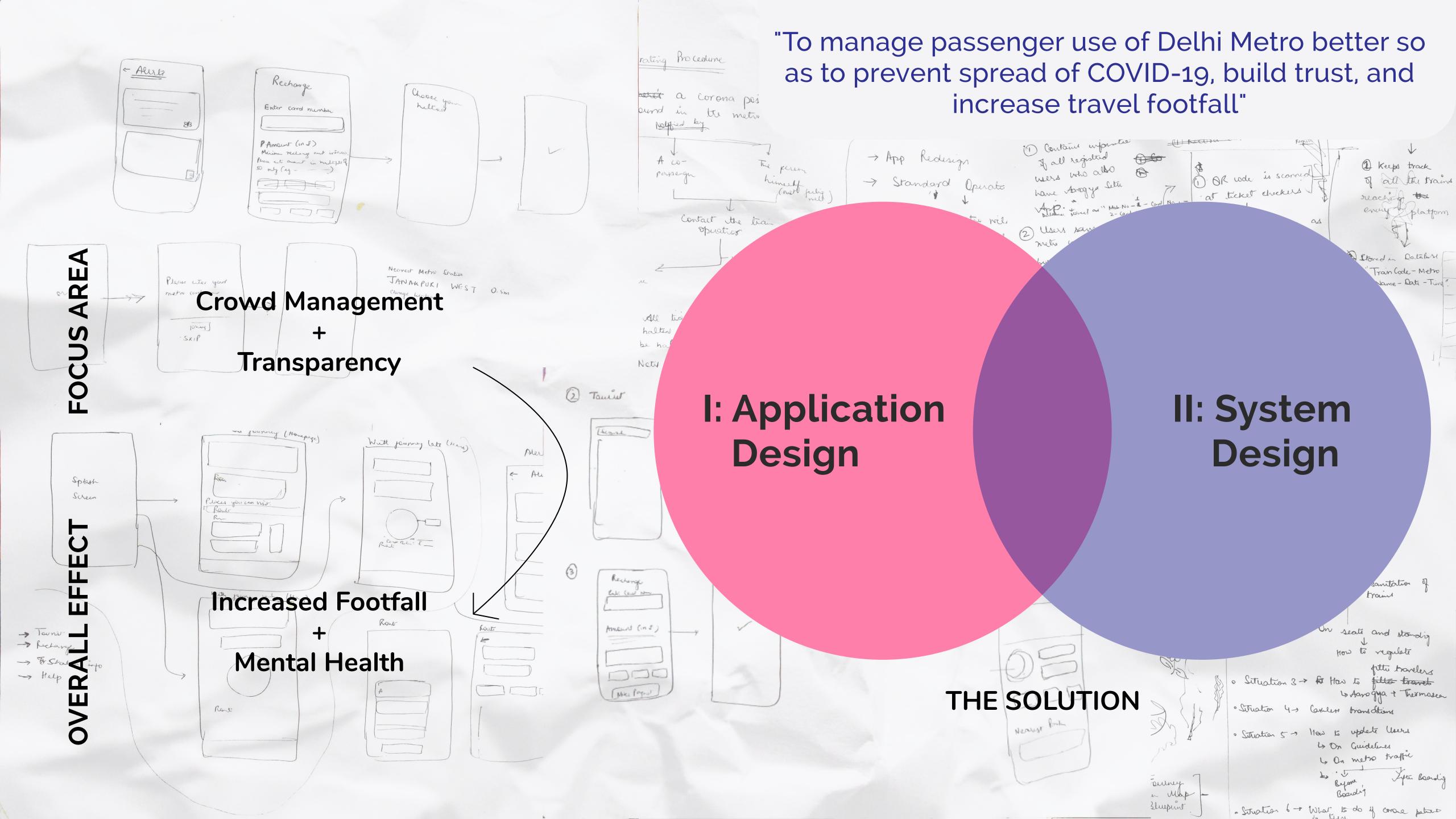


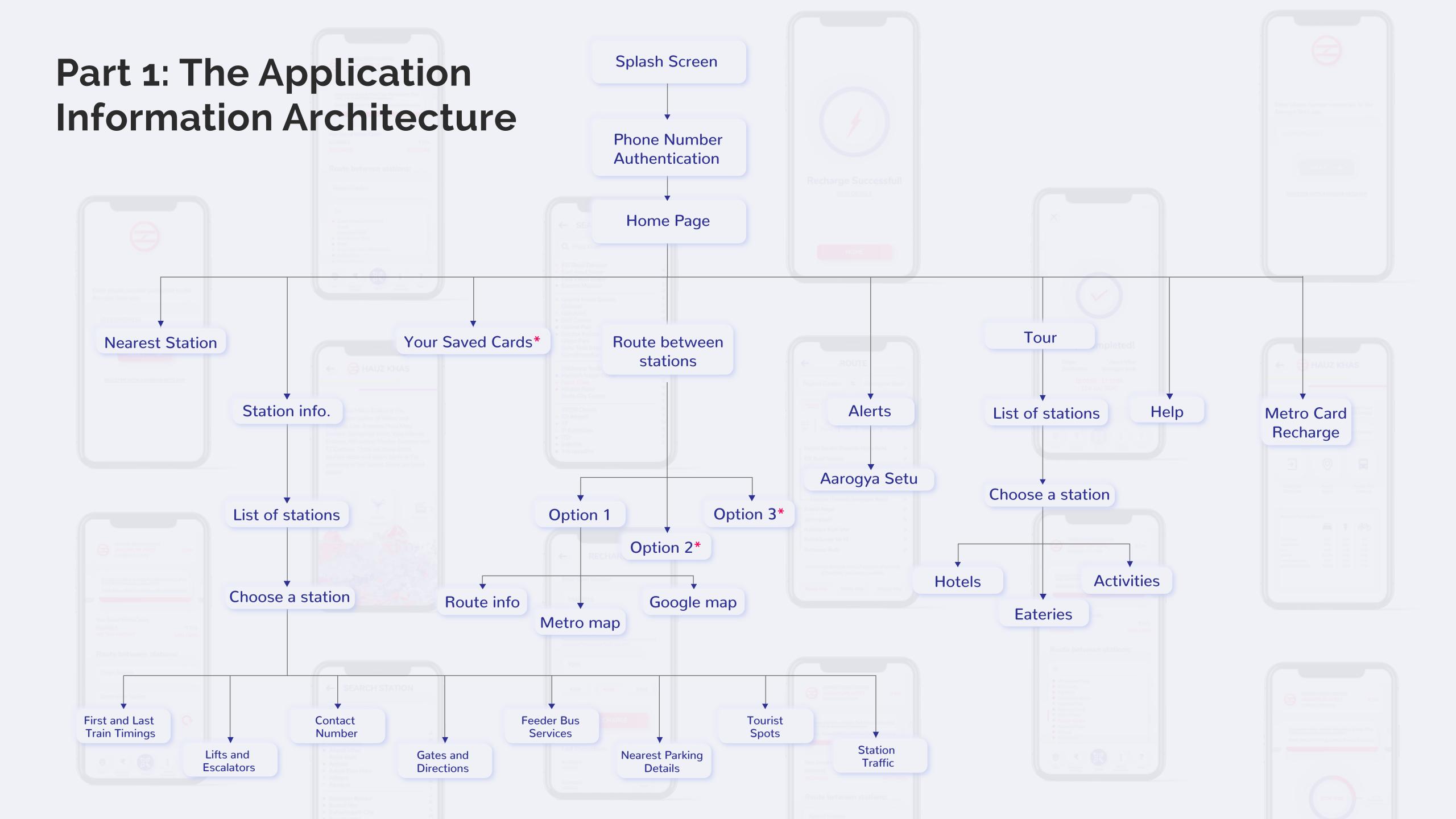
9. Plans to try 2nd route of travel next time, or to never use metro again



7. Return during rush hour, has to wait outside station until rush minimises









+919205659218

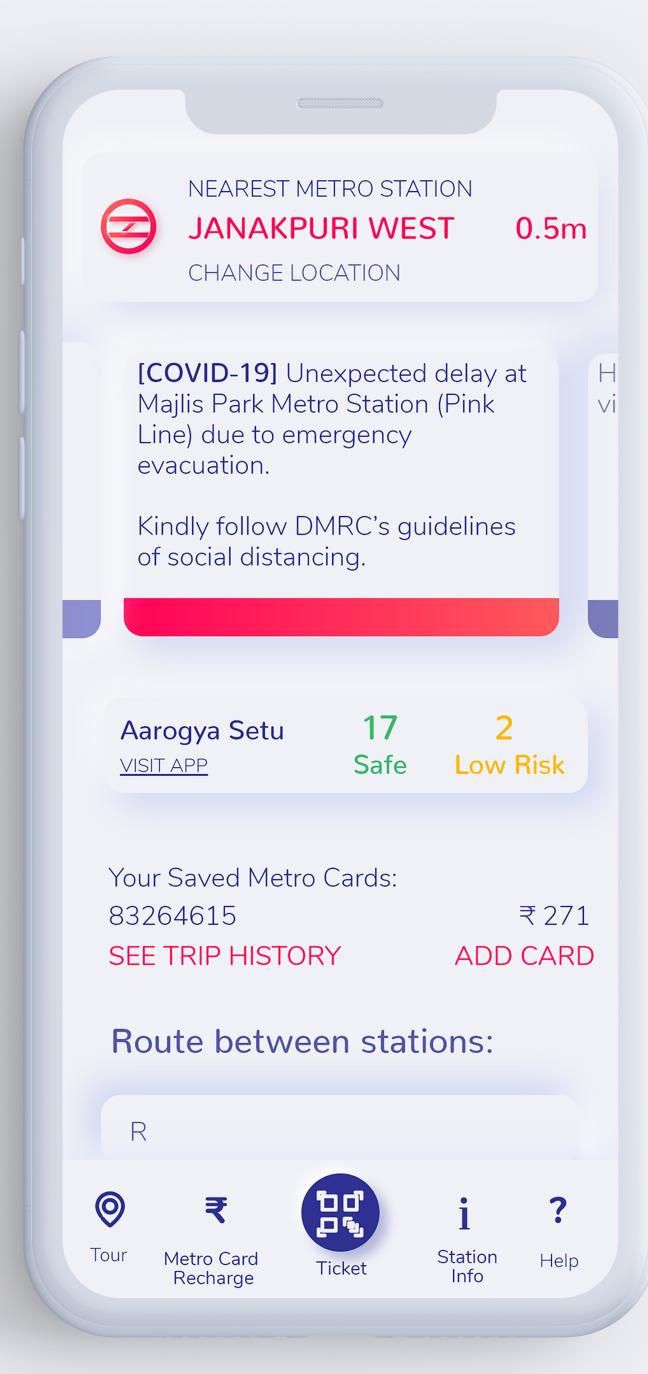
Register Later



Register with Aarogya Setu App

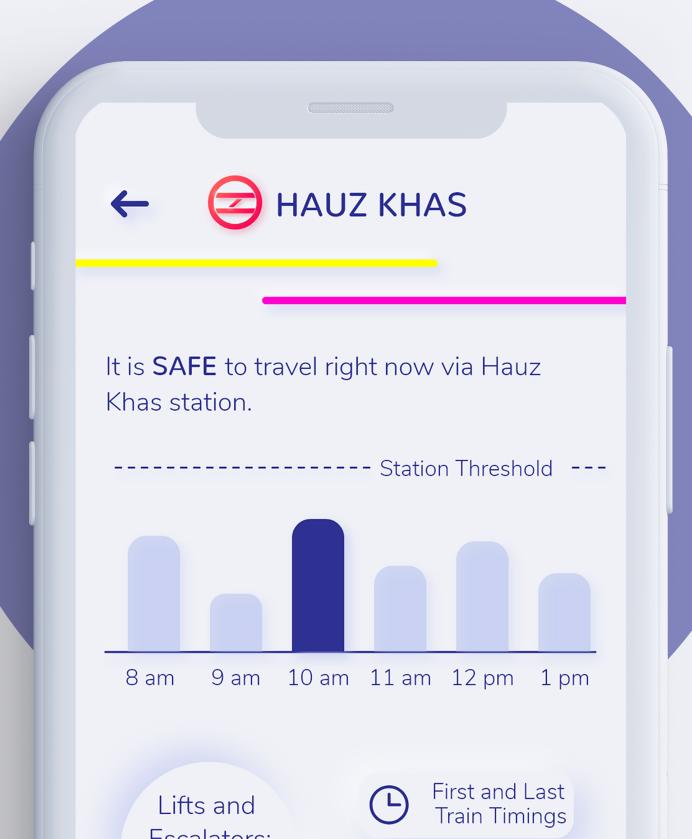
#### AAROGYA SETU LINK UP

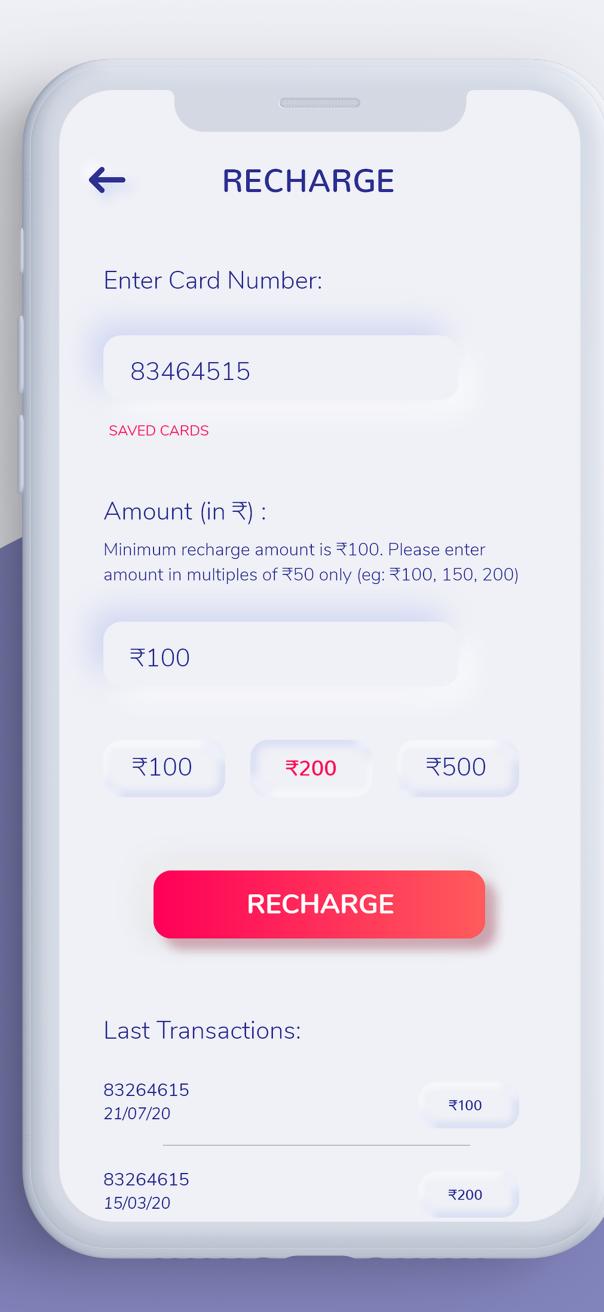
Link with Aaorgya Account on the Onboarding of the DMRC Application itself, and then be able to view the Aarogya Setu Tag of passengers (who have done the same) around you.



#### STATION THRESHOLD AND ALERTS

Find out crucial information such as recent COVID cases in metro, or the station threshold to know best time to travel via metro. The threshold is achieved when 50% passengers are inside station. More passengers cannot enter until crowd disperses.





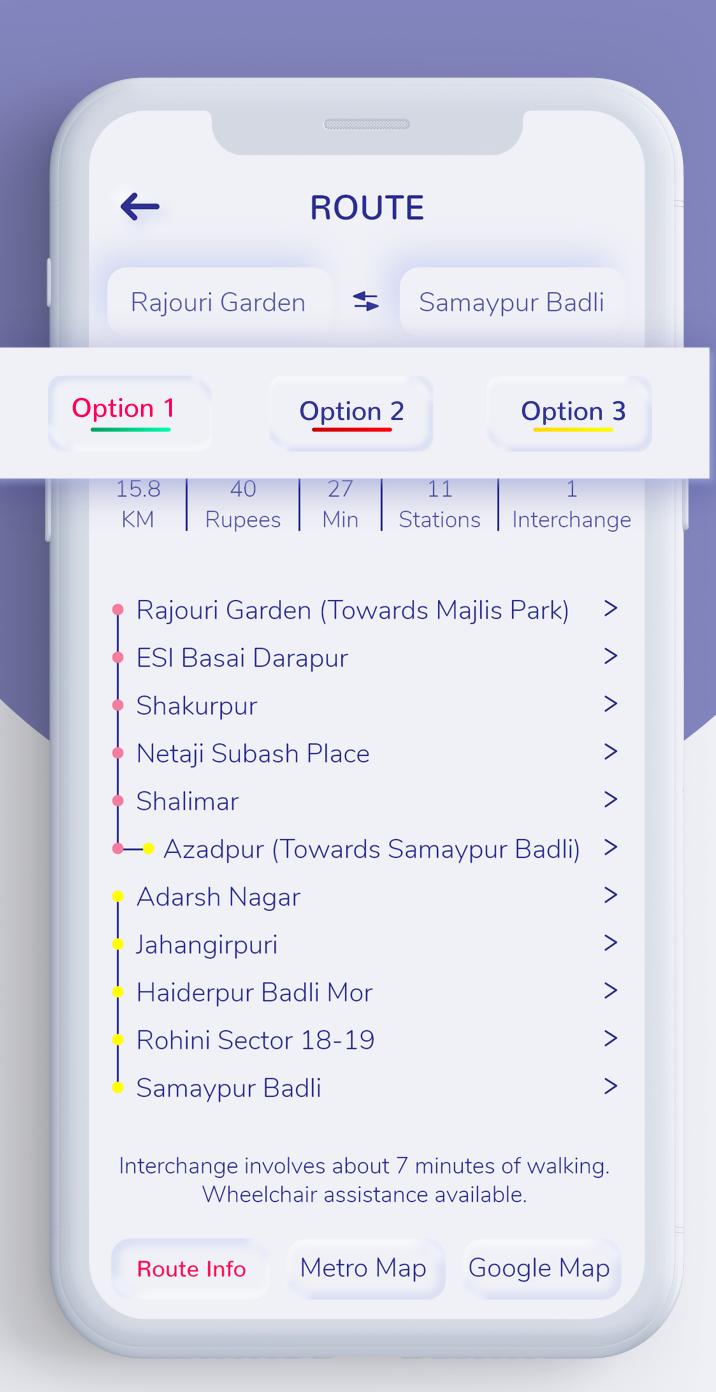
#### RECHARGE METRO CARD

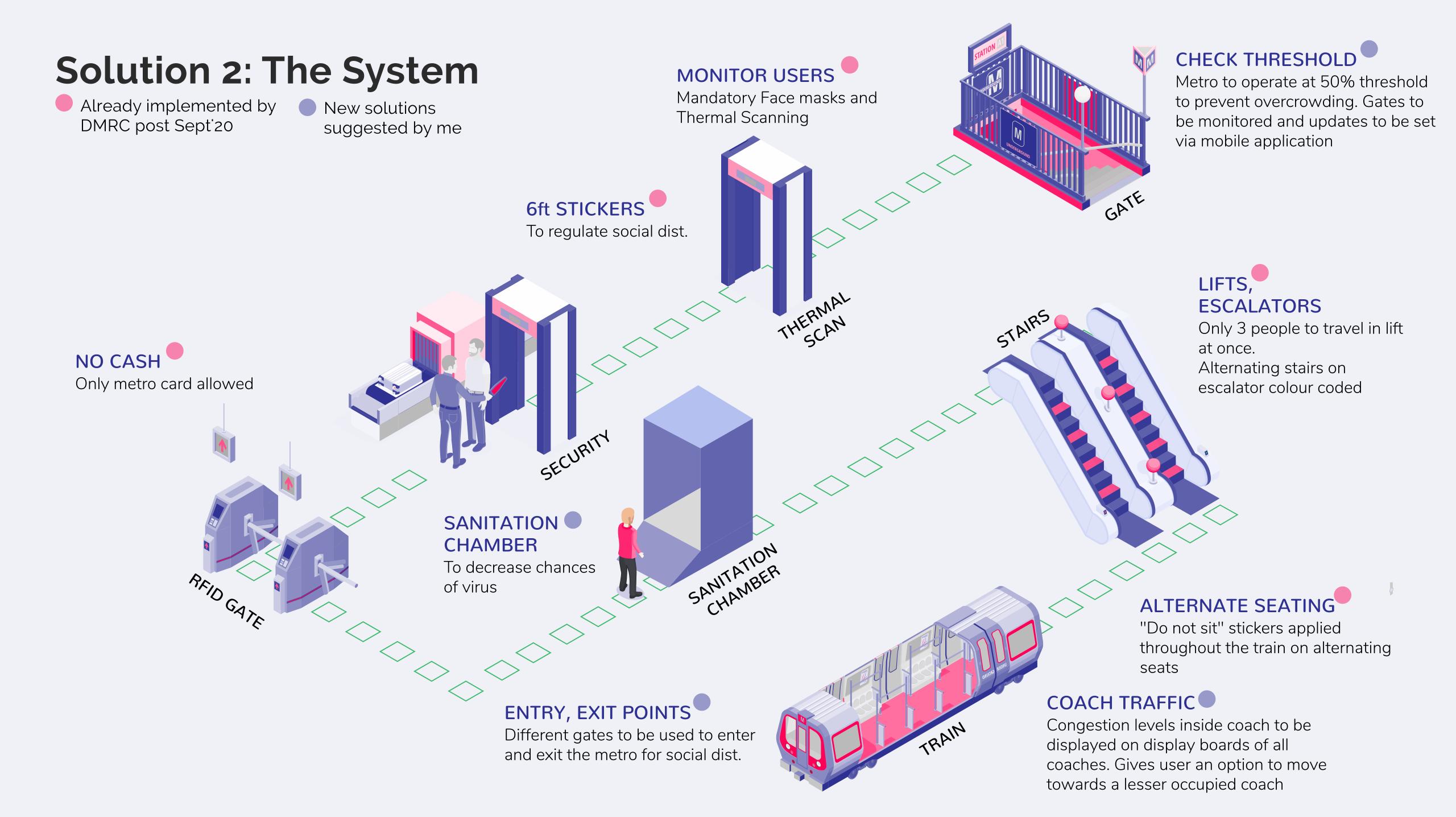
A streamlined redesign of recharging metro card from app so as to simplify the process and discourage cash transactions and TVMs (since virus could transfer through cash as well)

#### **CHOOSE ROUTE AS PER CROWD**

Choose which route to take (if options available) based on the level of crowd. Indicator of crowd level shown by colour:

Green- Safe, no crowd Yellow: Low risk, low crowd Red: High risk, huge crowd





# Impact: Potential to scale up

The best part?

Even after the pandemic officially ends, the application and system can be used to even out traffic across all lines, and provide a better travelling experience to users.

10,00,000

Daily ridership since Sept'20 unlock

Until COVID persists

30,00,000

Daily ridership under new system (50% of pre-covid ridership) When COVID ends

60,00,000+

Daily ridership under new system (More than Precovid ridership as routes optimised properly)





