

# TYL PYTHON HACKATHON

▣ Harsh Dhiman

▣ Subbi Reddy

▣ Jigyasa

▣ Hrushikesh



- During the lockdown , common people and government of India has seen that outbreak of COVID-19 managed better, there are no signs of it going away . Health experts have been urging the Government to test more people .This however has its own challenges. Asking people to travel to testing facilities may expose to the disease all the more and there may be constraints as to how many such facilities can be set up. Hence Government is thinking of coming up with a scheme of mobile vans



# CRITERIA FOR SELECTION OF 3 VANS

- ▣ (1) The vans should avoid containment zones/hotspots completely.
- ▣ (2) They should be located to areas where people with co-morbidities are more and they need to be tested first.
- ▣ (3) Otherwise they should randomly test people to get an assessment of the problem.
- ▣ (4) Your application should detect as many cases before they develop symptoms
- ▣ (5) The Vans will be in different ward each day generally but can remain in the same ward as well.



# PROBLEM & SOLUTION

## ▣ Problem:

- Get the details of different ward's people of bangalore city and there status.

## Solution:

Provide an interface to receive inputs from Aarogya-Setu App on details of people in each ward which contains unique\_ID, gender, age, co-morbidities, symptom and nearest contact information and display the collected inputs.



# PROBLEM & SOLUTION

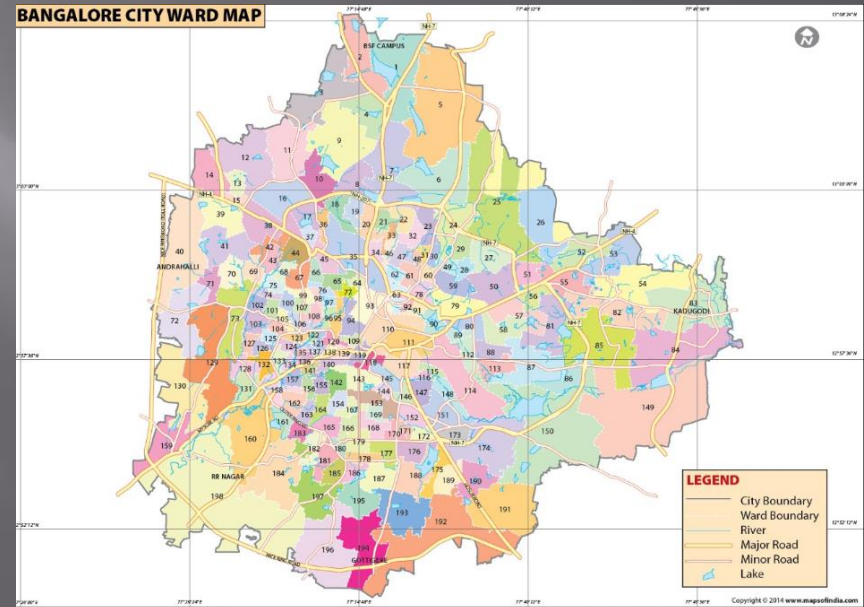
## ▣ Problem:

- Based on the above data design the algorithm to decide on which 3 wards the Vans will be stationed, in line with the criteria above.

## Solution:

We count number of patients in each ward and sort it in descending order so that we can get top 3 wards which has highest number of patients in it.

Unique\_id is given to every member who had registered for test for the further communication.





# OUTPUT SCREEN

COVID-19

Country

INDIA

State

KARNATAKA

City

BANGALORE

Output Screen

GENDER----AGE----Corona\_Symptoms----Other\_Symptoms----Locality

<<<<Persons having symptoms of corona viruses>>>>

Female 59 (Genital warts) fever Kempegowda 1

Other 55 (Genital warts) (chest pain or pressure) (Jagajeevanagaram Nagar) 2

Male 24 (Blood pressure) conjunctivitis (Yeshwanthpur ) 3

Other 15 Parkinsons (chest pain or pressure) Byrasandra 4

Female 54 Cirrhosis diarrhoea (Kuvempu Nagar) 5

Male 45 Tuberculosis (loss of taste or smell) Bilekahalli 6

Male 42 (Kidney stones) diarrhoea Mallasandra 7

Male 71 Diabetes tiredness (Sudama Nagar) 8

Female 25 Tuberculosis (chest pain or pressure) Doddabommasandra 9

Male 38 (Brain tumor) (aches and pains) (Kodigehalli ) 10

Male 45 (Genital warts) headache (Radhakrishna Temple) 12

Male 66 Chickenpox conjunctivitis (KR Market) 13

Male 62 Thyroid (loss of speech or movement) (Yeshwanthpur ) 14

Female 86 Migraine (difficulty breathing or shortness of breath) (Radhakrishna Temple ) 16

Female 69 Cancer (loss of speech or movement) Padarayanapura 19

Male 74 Coma (loss of speech or movement) (Yeshwanthpur ) 20

Other 29 (Bone cancer) fever Byatarayanapura 21

Female 55 (Bone cancer) tiredness (Vasanth Nagar) 22

Male 74 hiv (a rash on skin or discolouration of fingers or toes) (Jagajeevanagaram Nagar) 23

Other 80 Tuberculosis diarrhoea Thanisandra 24

Male 36 Appendicitis (loss of speech or movement) Byatarayanapura 26

Male 32 Parkinsons headache (Kodigehalli ) 27

Other 41 (Hepatitis B) tiredness Jakkur 28

Female 48 (Heart attack) headache Byatarayanapura 29

Male 30 (Genital herpes) tiredness (Yeshwanthpur ) 31

Other 79 Migraine conjunctivitis (Chalavadi palya) 34

Female 73 Cirrhosis (chest pain or pressure) Shettyhalli 35

Female 28 (Genital warts) fever (Kuvempu Nagar) 36

Other 44 Parkinsons (difficulty breathing or shortness of breath) (Hampi Nagar) 37

Male 34 Appendicitis (loss of taste or smell) (Kuvempu Nagar) 39

Male 51 Cystitis fever Chowdeshwari 40

Female 89 (Cardiac arrest) fever (T-Dasarahalli ) 41

Other 46 Migraine (a rash on skin or discolouration of fingers or toes) Jakkur 42

Female 16 (Brain tumor) (loss of speech or movement) (Chalavadi palya) 44

Male 25 (Respiratory illness) (loss of speech or movement) (Kuvempu Nagar) 45

Male 40 Flu conjunctivitis Thanisandra 47

Female 23 Appendicitis (loss of taste or smell) (Yeshwanthpur ) 48

Female 89 Flu (dry cough) Keresandra 50

Other 77 Pancreatitis fever (Yeshwanthpur ) 51

Male 45 (Bone cancer) (loss of taste or smell) Hosahalli 52

Other 34 Cancer NONE Byatarayanapura 53

Male 57 Diabetes headache Bilekahalli 54

Male 90 (Hepatitis B) (a rash on skin or discolouration of fingers or toes) Byatarayanapura 55

Female 38 Pneumoniae (loss of speech or movement) (Yelahanka Satellite Town) 56

Other 66 (Cardiac arrest) (loss of taste or smell) (Radhakrishna Temple ) 57

Male 81 Chickenpox (sore throat) (KR Market) 59

WARD

30: Yeshwanthpur

26: Pulikeshi Nagar

25: Vasanth Nagar

24: Chalavadi palya

23: Rajarajeshwari Nagar

22: T-Dasarahalli

21: Sudama Nagar

20: KR Market

19: Hebbal

18: Padarayanapura

17: Keresandra

16: Hongasandra

14: Bilekahalli

10: Hampi Nagar

0: Shakambari Nagar

"Yeshwanthpur", "Pulikeshi Nagar", "Vasanth Nagar" these 3 ward were van will 81 no. of patient

ALERT MESSAGE TO SEND ON THIS UNINIQUE-ID TO WARDS

UNICODE WARDS

3: Yeshwanthpur

14: Yeshwanthpur

20: Yeshwanthpur

22: Vasanth Nagar

31: Yeshwanthpur

48: Yeshwanthpur

51: Yeshwanthpur

69: Pulikeshi Nagar

84: Pulikeshi Nagar

131: Yeshwanthpur

133: Vasanth Nagar

138: Vasanth Nagar

153: Yeshwanthpur

175: Vasanth Nagar

178: Pulikeshi Nagar

185: Yeshwanthpur

206: Vasanth Nagar

220: Vasanth Nagar

238: Pulikeshi Nagar

252: Pulikeshi Nagar

253: Pulikeshi Nagar

255: Pulikeshi Nagar

290: Vasanth Nagar

START