Team ID: PNT2022TMID28956

• **For metropolitan cities** • **Cities with highest number of population**	• **Due to lack of awareness to keep city clean and hygine** • **Keeping the city unclean lead to many unknow disease**	• **Smart dustbin with this technology can send the level off dustbin frequently to the corporation through the web application**
• **Build a web application to detect the level of the dustbin.** • **Send the truck to respective area to clean the dustbin .** • **Frequent monitoring using sensors very useful**	• **Lack of responsibility between the peoples about keeping city clean.** • **Despite their desire ,they are unable to contact the corporation officer at needed time**	• **Level of dustbin using the sensors can detected and status will be shared to corporation they send the truck and clean the dustbin.** • **The main concept is to keep city clean and hygiene.**

1. CUSTOMER SEGMENT(S)

CS

- Someone in need of plasma.
- Someone who donates plasma.

6. CUSTOMER CONSTRAINTS

- Due to lack of awareness regarding plasma donation.
- Accessing the unauthorized center may lead to insecurity.

5. AVAILABLE SOLUTIONS

- Users of this application have the option to post a request for plasma donation or a need.
- A user can be a giver as well as a borrower.

2. JOBS-TO-BE-DONE / PROBLEMS

- Build a web application with higher user experience.
- Step by step instructions will be given to donors before and after donation.
- Help desk will be provided for answering the queries.

9. PROBLEM ROOT CAUSE

RC

- Unreliable communication between the donor and the recipient.
- Lack of awareness about plasma donation.
- Despite their desire, they are unable to contact the proper supplier for plasma donations.

7. BEHAVIOUR

BE

- The donor of a right person in need for the donation.
- The main concept of the application is to find the right donor by the recipient needs.

		8. CHANNELS of BEHAVIOUR **CH**
TR 3. TRIGGERS	**SL** 10. YOUR SOLUTION	
• **A reduction in the number of waste collections needed by up to 80% resulting in less manpower,emissions,fuel use and traffic congestion** • **A reduction in the number of waste bins needed**	• **SMART DUSTBIN using Arduino is an IOT based project. Here we are using Arduino for code execution, for sensing we used ultrasonic sensor which will open lid and wait for few moments. It will bring drastic changes in term of cleanliness with the help of technology.**	**Online** 8.1 OFFLINE The sensors detects the dustbin level and send message to corporation **Offline** The corporation team sends the truck to clean the filled dustbin respectively