

Project Design Phase-I

Problem Solution Fit

Team ID	PNT2022TMID32785
Project Name	Smart Waste Management System For Metropolitan Cities

Define CS, fit into CC

1. CUSTOMER SEGMENT(S)

CS

The customer here is the people who lives around the public garbage bins and domestic animals and the person who collects the waste particularly the person with health issues.

6. CUSTOMER CONSTRAINTS

CC

- People may feel disgusted to clean the garbage by themselves
- When the garbage or wastes spills out of the bins
- Bad odor resulting from the waste.

5. AVAILABLE SOLUTIONS

AS

- Can create a software for monitoring wastages
- Household wastes are incinerated in the backyard or nearby.
- Environmental racism

Explore AS, differentiate

2. JOBS-TO-BE-DONE / PROBLEMS J&P

- Notifying the garbage collector about the overflow of trash containers to empty the garbage container frequently.
- Making the environment clean and eco-friendly.
- Preventing people from respiratory diseases.

9. PROBLEM ROOT CAUSE RC

- No proper monitorization of the fill level of garbage in the bins kept for public disposal of waste.
- People's lethargicness and irresponsibility.

7. BEHAVIOUR BE

- Monitoring of waste level by using some technologies and software to dispose it in the correct time.

3. TRIGGERS TR

- Since wastes are collected and disposed properly at a right time, people will be aware of the act and triggered to put the waste only in the trash container.

4. EMOTIONS: BEFORE / AFTER EM

- **BEFORE** : Frustration, fear of health issues like shin diseases and respiratory infections.
- **AFTER** : Satisfaction, Calm state of mind, cleanliness, Eco-friendly

10. YOUR SOLUTION SL

- Proper monitoring of garbage level using sensors to avoid overflow of wastes
- Frequent collection of wastes by the waste collectors by the proper channel of communication.

8.CHANNELS of BEHAVIOUR CH

Online:

- Advertise or spread news over social media on keeping the environment clean.

Offline:

- People who actually cares about the sanitization of environment conduct awareness campaign as volunteers, rally.
- Conduction of awareness programs.
- Inclusion of this issue in the schools books to create awareness and making the upcoming young generation with responsibilities and concern towards the society and its

			wealth.	
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