

Ideation Phase

Define the Problem Statements

Date	11 .05. 2023
Team ID	NM2023TMID19394
Project Name	Smartcity waste management with connected trashcans
Maximum Marks	

Customer Problem Statement Template:

I am	Describe customer with 3-4 key characteristics - who are they?	Describe the customer and their attributes here
I'm trying to	List their outcome or "job" the care about - what are they trying to achieve?	List the thing they are trying to achieve here
but	Describe what problems or barriers stand in the way - what bothers them most?	Describe the problems or barriers that get in the way here
because	Enter the "root cause" of why the problem or barrier exists - what needs to be solved?	Describe the reason the problems or barriers exist
which makes me feel	Describe the emotions from the customer's point of view - how does it impact them emotionally?	Describe the emotions the result from experiencing the problems or barriers

Example:

I am a traveler	I'm trying to book flights on my phone	But it takes a long time	Because The website is not responsive and doesn't have a mobile version	Which makes me feel Frustrated
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Problem Statement (PS)	I am (Customer)	I'm trying to	But	Because	Which makes me feel
PS-1	Citizens	Create a more pleasant and sustainable urban environment.	The lack of proper waste disposal infrastructure, insufficient waste collection frequency, and inadequate public participation exacerbate the	By keeping streets cleaner, improving the efficiency of waste collection, incentivizing public participation, using data-	the aim of this project is to develop and implement a Smartcity waste Management System with connected trashcans

			situation.	driven decision-making, and providing transparency, the project can help create a more pleasant and sustainable urban environment.	that can overcome these challenges and improve the overall waste management system in the city.
PS-2	Municipalities, local government	Growing cities	Overflowing trash cans, littered streets, and unhealthy living conditions. This leads to several issues, including environmental pollution, health hazards,	several challenges that need to be addressed to implement the proposed system effectively	These include designing and implementing a reliable and robust IoT system, integrating the system with the existing waste management infrastructure , developing an effective public participation strategy, and ensuring data privacy and security.