Ideation Phase

Define the Problem Statements

Date	31 May 2025
Team ID	LTVIP2025TMID60699
Project Name	Sustainable Smart City Assistant Using IBM
	Granite LLM
Maximum Marks	2 Marks

Customer Problem Statement Template – Sustainable Smart City Assistant

Creating a clear and empathetic problem statement helps us truly understand our city users' needs. Our Sustainable Smart City Assistant project focuses on building meaningful, intelligent, and localized experiences that empower individuals to live more sustainably within their urban environments.

A well-defined customer problem statement ensures that we build solutions that genuinely address the environmental, informational, and lifestyle challenges faced by our target users. It also strengthens our ability to empathize with diverse users — from everyday commuters to environmentally conscious citizens — helping us view the smart city through their eyes.

By crafting these statements, we framed real pain points such as lack of access to live environmental data, absence of personalized eco-guidance, limited language support, and confusing dashboards. These insights guided our key features: real-time AQI and water tracking, smart notifications, visual eco-score dashboards, localized eco-tips, city selector, and AI-powered summaries.

l 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:

Problem	I am	I'm trying to	But	Because	Which
Statement	(Customer)				makes me
					feel
PS-1	a city	monitor air	I can't	existing apps are	frustrated and
	resident	and water	find a	technical,	unaware of
	concerned	quality in real	simple	outdated, or	my city's
	about	time	tool for	unclear	actual
	pollution		live,		conditions
			trusted		
			data		
PS-2	an eco-	take	I get only	most apps lack	demotivated
	conscious	meaningful	generic	personalized,	and
	individual	daily steps to	tips that	local	overwhelmed
		live	don't fit	recommendations	
		sustainably	my city or		
			habits		
PS-3	a busy	plan my daily	I don't	no apps show	guilty and
	commuter	travel with the	know	local eco-friendly	confused
		environment	which	travel insights	about my
		in mind	options		impact
			are		
			greener		
PS-4	someone	track my	apps give	dashboards are	disconnected
	who likes	sustainability	raw	cluttered or non-	from
	data but not	in a clear	numbers,	existent	progress and
	complexity	visual way	not		discouraged
			actionable		
			visuals		

PS-5	a working	get notified	I get	alerts are not	annoyed and
	professional	only when	spammed	smart or	less likely to
	with limited	something	or miss	personalized	engage
	time	relevant	important		
		happens	updates		
PS-6	a non-	use a smart	most apps	localization is	excluded
	English	sustainability	don't	ignored in design	from digital
	speaking	tool in my	support		eco-tools
	user	own language	my		
			language		
PS-7	an urban	access	I lose	most apps don't	helpless and
	dweller	environmental	access	support offline	disconnected
	without	tools on the	when	usage	in poor
	constant	go	offline		network
	internet				areas
PS-8	a person	understand	I can't	the data isn't	confused and
	interested in	how my city	make	summarized or	uninformed
	learning	is performing	sense of	simplified	about urban
	more		scattered		health
			reports		