

Project Design Phase

Problem – Solution Fit

Date	03 June 2025
Team ID	LTVIP2025TMID30991
Project Name	Sustainable Smart City Assistant Using IBM Granite LLM
Maximum Marks	2 Marks

Problem – Solution Fit Analysis

Aspect	Details
Customer Problem	Urban citizens face challenges in reporting civic issues, accessing eco-advice, understanding government policies, and tracking city resources.
Why it Matters	These issues lead to low engagement in sustainability programs, delays in city maintenance, poor awareness of personal impact, and inefficient resource use.
Current Behaviors	Citizens rely on manual reporting, ignore lengthy policy documents, lack access to real-time analytics, and struggle to get actionable eco-guidance.
Our Solution	An AI-powered assistant that enables smart waste sorting, energy habit analysis, feedback logging, policy summarization, anomaly detection, forecasting, and eco-advice – all in one accessible platform.
How It Fits	The assistant uses IBM Granite LLM to simplify content, generate responses, and interact via a clean Gradio UI, aligning with how modern users consume information and interact with services.
User Adoption Strategy	Encourage use in community awareness drives, integrate with municipal apps/websites, and promote through schools and local campaigns to build engagement and trust.