

## **Project Design Phase**

### **Problem – Solution Fit**

<b>Date</b>	<b>03 June 2025</b>
<b>Team ID</b>	LTVIP2025TMID31087
<b>Project Name</b>	Sustainable Smart City Assistant Using IBM Granite LLM
<b>Maximum Marks</b>	2 Marks

#### **Problem – Solution Fit Analysis**

<b>Aspect</b>	<b>Details</b>
<b>Customer Problem</b>	Urban citizens face challenges in reporting civic issues, accessing ecoadvice, understanding government policies, and tracking city resources.
<b>Why it Matters</b>	These issues lead to low engagement in sustainability programs, delays in city maintenance, poor awareness of personal impact, and inefficient resource use.
<b>Current Behaviors</b>	Citizens rely on manual reporting, ignore lengthy policy documents, lack access to real-time analytics, and struggle to get actionable ecoguidance.
<b>Our Solution</b>	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.
<b>How It Fits</b>	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.
<b>User Adoption Strategy</b>	Encourage use in community awareness drives, integrate with municipal apps/websites, and promote through schools and local campaigns to build engagement and trust.

