**Project Design Phase**

**Problem – Solution Fit Template**

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| **Date** | **16 june 2025** |
| **Team ID** | **LTVIP2025TMID32074** |
| **Project Name** | **Sustainable Smart City using IBM Granite** |
| **Maximum Marks** | **2 Marks** |

**Problem – Solution Fit Template**

**The Problem–Solution Fit in this project means we identified key challenges citizens and city planners face in managing smart and sustainable urban systems — and developed an AI-based assistant that provides quick, intelligent support to solve these challenges.**

**Our solution — built using IBM Granite 3.3-2B via Hugging Face API — responds to citizen queries, recommends policies, and promotes eco-friendly practices, bridging the gap between public needs and smart city planning.**

**Purpose of Problem–Solution Fit in Our Project:**

**Solve real smart city challenges like waste management, water conservation, and public reporting through an intelligent, conversational AI system.  
 Accelerate adoption by offering a user-friendly, natural language interface that aligns with how people already ask for help.  
 Sharpen communication by providing clear, relevant, and helpful responses tailored to specific sustainability issues.  
 Increase engagement by offering helpful responses to frequent concerns like pollution, urban planning, or resource usage.  
 Understand current citizen pain points through test prompts and feedback to continuously improve the model’s helpfulness.**