# Project Design Phase

## Problem – Solution Fit Template

Date: 26 June 2025

Team ID: LTVIP2025TMID32000

Project Name: Sustainable Smart City Assistant Using IBM Granite LLM

Maximum Marks: 2 Marks

Problem – Solution Fit Template:  
  
The Problem-Solution Fit simply means that you have found a problem with your customer and that the solution you have realized for it actually solves the customer’s problem. It helps entrepreneurs, marketers and corporate innovators identify behavioral patterns and recognize what would work and why.

## Purpose:

The Sustainable Smart City Assistant is designed to solve inefficiencies in urban policy handling, citizen feedback management, and environmental planning. It targets municipal planners, city officials, and citizens seeking an AI-powered assistant for better governance, decision-making, and sustainability engagement.  
  
By integrating IBM Watsonx Granite LLM, Pinecone vector search, and a modular Streamlit-FastAPI system, this assistant delivers instant policy summaries, KPI forecasts, anomaly detection, eco suggestions, and AI-driven chat experiences. The platform automates data interpretation, reporting, and citizen interactions—streamlining urban workflows and improving responsiveness.

• Solve complex problems in a way that fits the state of your users and city planners  
• Accelerate adoption by leveraging familiar interfaces like dashboards and chatbots  
• Improve strategic communication through AI-generated reports and summaries  
• Enhance city engagement by resolving critical and frequent pain points (e.g., feedback delays, manual policy analysis, unpredictable utility trends)  
• Understand and improve real-time city operations with actionable analytics

## References:

https://www.ideahackers.network/problem-solution-fit-canvas/

https://medium.com/@epicantus/problem-solution-fit-canvas-aa3dd59cb4fe