Project Design Phase

Proposed Solution

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

Proposed Solution Details

S.No.	Parameter	Description
1	Problem Statement (Problem to be solved)	Urban citizens struggle to report civic issues, understand complex policy documents, access personalized eco-advice, and monitor city resource usage effectively.
2	Idea / Solution Description	An AI-powered assistant built using IBM Granite LLM and Gradio interface that provides waste sorting help, energy analysis, feedback collection, policy summarization, anomaly detection, KPI forecasting, and sustainability Q&A.
3	Novelty / Uniqueness	Combines multiple smart city sustainability services into one unified AI solution with natural language processing, real-time analytics, and citizen-friendly UI.
4	Social Impact / Customer Satisfaction	Enhances citizen participation, environmental awareness, and governance transparency while simplifying eco-friendly actions for daily life.
5	Business Model (Revenue Model)	Freemium model for public use; extended API services for municipalities, urban planners, and educational institutions via licensing or subscription.
6	Scalability of the Solution	Easily deployable in different cities with minimal modifications; supports additional features and datasets; scalable via cloud platforms and API integrations.