### **Ideation Phase**

**Brainstorm & Idea Prioritization Template**

**Date:** 26 June 2025  
**Team ID:** LTVIP2025TMID32032  
**Project Name:** Sustainable Smart City Assistant Using IBM Granite LLM  
**Maximum Marks:** 4 Marks

Brainstorming provides a free and open environment that encourages everyone within a team to participate in the creative thinking process that leads to problem solving. Prioritizing volume over value, out-of-the-box ideas are welcome and built upon, and all participants are encouraged to collaborate, helping each other develop a rich amount of creative solutions.

Use this template in your own brainstorming sessions so your team can unleash their imagination and start shaping concepts even if you're not sitting in the same room.

**Reference:** <https://www.mural.co/templates/brainstorm-and-idea-prioritization>

### **Step 1: Team Gathering, Collaboration, and Select the Problem Statement**

**Team Members:**

* Jaliparthi Lavanya (Team Leader)
* Goli Prabhas
* Gajjala Tejaswini
* Gude Sri Swarna Latha

**Selected Problem Statement:**  
How might we build an AI-powered assistant that supports urban sustainability, governance, and citizen engagement by leveraging IBM Watsonx Granite LLM for summarization, anomaly detection, eco-advice, KPI forecasting, and smart city interaction?

### **Step 2: Brainstorm, Idea Listing, and Grouping**

**Brainstormed Ideas:**

* Enable uploading of city policy documents for instant summarization using Granite LLM.
* Implement a chat assistant for citizens to ask sustainability and city governance questions.
* Integrate KPI forecasting for resources like water, energy, and air quality using ML.
* Provide an Eco Tips generator to deliver actionable environmental suggestions.
* Develop anomaly detection for KPIs to identify unusual patterns in city operations.
* Integrate Pinecone vector search for efficient policy retrieval and semantic search.
* Build a feedback submission module for citizens to report issues like water leaks.
* Generate detailed city-wise sustainability reports combining AI insights and data.
* Provide an interactive dashboard showing real-time KPIs and assistant features.

### **Step 3: Idea Prioritization**

**Top Priority Ideas for Implementation:**

1. Policy Document Upload & Summarization using IBM Granite LLM
2. AI Chat Assistant for Sustainability and City Governance Queries
3. KPI Forecasting for Water, Energy, and Environmental Metrics
4. Anomaly Detection in Resource Usage to Detect Irregularities

**Secondary Priority Ideas:**

* Eco Tips Generator for Citizens and Schools
* Pinecone-Powered Policy Semantic Search
* Feedback Module for Citizen-Reported Issues
* Sustainability Report Generation

These ideas were selected based on feasibility, social impact, and the ability to showcase the real-world power of IBM Watsonx Granite LLM and AI in enhancing smart city operations and sustainability efforts.