## Ideation Phase Brainstorm & Idea Prioritization Template

Date	31 January 2025	
Team ID	LTVIP2025TMID29266	
Project Name	Sustainable Smart City Assistant using IBM Granite LLM	
Maximum Marks	4 Marks	

#### **Team Members & Roles**

Name Role

Singuluri Chandra Sagar Team Leader, LLM Integration &

Deployment

Sesetti Mohana Krishna Gradio UI Developer & Model Testing

Tibirisetti Satish KPI Forecasting & Anomaly Detection

Sangani Kasu Raju Citizen Feedback & Eco Tips Module

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

#### **Problem Statement:**

To develop a Sustainable Smart City Assistant that utilizes Generative AI through IBM Granite LLMs to support citizens and administrators with policy understanding, feedback reporting, eco-friendly tips, KPI forecasting, and anomaly detection.

#### Motivation:

Urban areas face a rising need for accessible information, sustainable living practices, and proactive governance. Our assistant provides AI-driven solutions to bridge the gap between smart city data and user action.

## Step 2: Brainstorming, Idea Listing, and Grouping

#### Initial Ideas:

- Summarize lengthy policy documents using LLM
- Create a chatbot assistant for queries

- Accept and categorize citizen feedback
- Forecast KPIs like energy, pollution, traffic
- Provide AI-generated eco tips
- Detect anomalies from city sensor data
- Deploy using Gradio on Hugging Face

### Grouped into Modules:

- 1. Policy Module Summarization using Granite
- 2. Chat Module LLM-powered assistant
- 3. Feedback Module Gradio form + tagging
- 4. Forecast Module Basic predictive simulation
- 5. Eco Tips Generator Prompt-based LLM tips
- 6. Anomaly Detection Alert system
- 7. Deployment/UI Gradio-based interface

## **Step 3: Idea Prioritization (Final Version)**

Feature / Module	Importance	Feasibility	Notes
Policy Summarization	High	High	Implemented using IBM Granite LLM
Chat Assistant	High	High	LLM-powered Q&A chatbot using IBM Granite
Citizen Feedback Reporting	Medium	High	Gradio form with backend processing
KPI Forecasting	High	Medium	Used simulated data for forecasting
Eco Tips Generator	Medium	High	Prompt-based tips using LLM
Anomaly Detection	High	Medium	Alerts based on simulated deviations
Gradio Interface (Frontend)	High	High	Deployed on Hugging Face using Gradio