# Ideation Phase

## Brainstorm & Idea Prioritization Template

Date: 26 June 2025

Team ID: LTVIP2025TMID32000

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:

- K Sai Charan (Team Leader)

- Inkollu Sai Bhanu Koushik

- Gunisetti Rakesh

- Gousia Begum

Selected Problem Statement:

How might we build an AI-powered platform that supports urban sustainability, policy summarization, real-time citizen interaction, eco-awareness, and anomaly detection using IBM Watsonx Granite LLM, Streamlit, FastAPI, and vector search engines like Pinecone?

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

Brainstormed Ideas:

- AI Chat Assistant for citizen queries on sustainability

- Upload city policy documents and summarize using Watsonx

- Use Pinecone for semantic policy search via vector embeddings

- Upload KPI data for forecasting via ML models

- Eco Tips module to generate sustainable lifestyle suggestions

- Feedback module for citizen complaints with auto-categorization

- Anomaly detection on energy/water data to spot irregularities

- Auto-generate city sustainability reports using Watsonx prompts

- Streamlit UI with real-time dashboard and navigation

## Step-3: Idea Prioritization

Top Priority Ideas for Implementation:

1. Policy Summarization using Watsonx Granite LLM

2. Semantic Policy Search via Pinecone Vector Embedding

3. Citizen Feedback with Category Tagging

4. KPI Forecasting with ML Models

Secondary Priority Ideas:

- Eco Tips Generator from prompt keywords

- Real-time AI Chat Assistant

- Anomaly Detection for resource usage alerts

- Report Generator for city-level sustainability summaries

These ideas were selected based on feasibility, impact, integration with IBM Watsonx Granite, and their potential to significantly enhance smart city governance, engagement, and sustainability planning.