Ideation Phase: Brainstorm & Idea Prioritization Template

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| Date | 27 June 2025 |
| Team ID | LTVIP2025TMID21127 |
| Project Name | Sustainable Smart City Assistant |
| 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.  
  
This document outlines our ideation process and idea prioritization for the project.

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

Our team met to explore pressing issues in urban sustainability. After discussing various domains such as energy, waste management, and citizen services, we selected the following problem statement:  
  
\*\*How can AI be used to improve urban sustainability, citizen engagement, and smart city policy analysis?\*\*

# Step 2: Brainstorm, Idea Listing and Grouping

During our brainstorming session, the team generated the following ideas:

- Auto-summarization of city policies using AI

- Semantic search in legal/policy documents

- Citizen portal to report issues (e.g., water leaks, lights)

- AI-generated eco-friendly tips

- Voice/text chatbot for sustainability education

- KPI forecasting for water and energy usage

- Anomaly detection in utility consumption patterns

- Mobile-friendly app for urban feedback collection

The ideas were grouped into three categories:  
1. Policy Assistant  
2. Citizen Engagement  
3. City Analytics

# Step 3: Idea Prioritization

The team used a simple matrix (Impact vs Effort) to prioritize the brainstormed ideas.

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| --- | --- | --- |
| Idea | Impact | Effort |
| Auto-summarization of policies | High | Medium |
| Semantic search | High | High |
| Citizen issue reporting | High | Low |
| Eco-friendly tips | Medium | Low |
| Chatbot for sustainability | High | Medium |
| KPI forecasting | High | Medium |
| Anomaly detection | Medium | High |
| Mobile-friendly feedback app | Medium | Medium |

The top priorities chosen for implementation were:  
- Policy summarization  
- Semantic search  
- Citizen reporting tool  
- KPI forecasting  
- Chatbot for sustainability queries