# Ideation Phase

## Brainstorm & Idea Prioritization Template

| Date | 22 June s2025 |
|---|---|
| Team ID | LTVIP2025TMID37462 |
| Project Name | Sustainable Smart-city Ai assistant using IBM Granite LLM |
| Maximum Marks | 4 Marks |

**Brainstorm & Idea Prioritization Template**

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

Problem Statement Selected:
How might we build an intelligent assistant to promote sustainable living in smart cities by offering actionable eco tips, forecasting sustainability KPIs, providing tailored reports, and enabling interactive communication with citizens?

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

Problem Statement Selected:
How might we build an intelligent assistant to promote sustainable living in smart cities by offering actionable eco tips, forecasting sustainability KPIs, providing tailored reports, and enabling interactive communication with citizens?

Team Discussion Points:
- Increase citizen awareness of sustainable practices.
- Make environmental data understandable and interactive.
- Provide real-time assistance to urban residents through AI.
- Bridge the gap between municipal sustainability goals and public engagement.

# Brainstorm & idea prioritiza-tion

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

- 🕐 **10 minutes** to prepare
- 🪑 **1 hour** to collaborate
- 👥 **2-8 people** recommended

### PROBLEM
**How might we empower urban cit²ams to adapt sustainable practices using an AI based assistant that**

A little bit of preparation goes a long way. Here's how we prepped for the *CityP'AIRtner* ideation session:

☑ **Team Gathering**
Our AI & Smart City team (SC. AI,025) met to define roles and prepare relevant background on smart city challenges and sustainability gaps.

☑ **Set the Goal**
Build an intelligent assistant that helps. citizens of smart cities adopt sustainable lifestyles through actionable insights and AI-powered interaction.

☑ **Learn Haw to Use the Facilitation Tools**
We explored tools like Miro, Mural, and brainstorming sheets to organize our thoughts. The session was facilitated using whiteboards and collaborative docs.

### Key Rules of Brainstorming
To run a smooth and productive sesion

- ✓ Stay in topic
- ⊕ Encourage wild ideas
- ✓ Onfer linfement

## Step-2: Brainstorm, Idea Listing and Grouping
Raw Ideas Generated:

- A web-based assistant to interact using natural language.
- Feature for personalized eco tips based on city context.
- KPI dashboard for metrics like air quality, energy usage.
- Forecasting future trends for emissions, waste, etc.
- Sustainability report generation based on user input.
- Chat Assistant using IBM Granite for smart responses.
- Intuitive UI with city-themed visuals.
- LocalTunnel or Ngrok for easy public deployment.
- Sidebar navigation with logo and informative widgets.

Grouped Ideas:

| Category | Ideas |
|---|---|
| Awareness Tools | Eco tips, sustainability education through chat |
| Data Visualization | KPI dashboard, forecasting tools |
| Interactivity | Chat assistant, report generation, symptom-style smart input |
| Deployment & Access | VSCode backend, FastAPI + Streamlit/HTML frontend |
| Styling & UX | Smart city theme, logos, dynamic sidebar, image assets |

## Step-3: Idea Prioritization

Evaluation Based on: Impact, Feasibility, Uniqueness, User Engagement

| Idea | Impact | Feasibility | Priority |
|---|---|---|---|
| Smart City Chat Assistant with AI | High | Medium | High |
| Eco Tips Section | High | High | High |
| KPI Forecasting | Medium | Medium | Medium |
| Sustainability Report Generator | High | Medium | High |
| IBM Granite LLM Integration | High | Medium | High |
| City-themed UI & Branding | Medium | High | Medium |
| Real-time Deployment using LocalTunnel | Medium | High | Medium |

Final Prioritized Feature Set for MVP:
1. AI Chat Assistant using IBM Granite.
2. Eco Tips Dashboard.
3. KPI Forecasting for selected smart cities.
4. Sustainability Report Generator.
5. Themed user interface for enhanced interaction.
6. Seamless deployment via vscode + FastAPI.