**Project Design Phase**

**Proposed Solution Template**

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| Date | 17 june 2025 |
| Team ID | LTVIP2025TMID32074 |
| Project Name | Sustainable Smart City using IBM Granite |
| Maximum Marks | 2 Marks |

**Proposed Solution Template:**

Project team shall fill the following information in the proposed solution template.

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| **S.No.** | **Parameter** | **Description** |
|  | Problem Statement (Problem to be solved) | Urban citizens and administrators lack a unified, interactive platform to access eco-friendly insights, city health metrics, and policy summaries—leading to low awareness and inefficient sustainability efforts. |
|  | Idea / Solution description | We propose an AI-powered Smart City Assistant built using Hugging Face models. The solution offers modules like eco-tips, policy summarization, city health dashboards, anomaly detection, and a conversational chatbot. Built with a FastAPI backend and a Streamlit frontend, it delivers real-time insights through a user-friendly interface. |
|  | Novelty / Uniqueness | Unlike static dashboards or isolated tools, our assistant uses NLP and inference APIs to provide real-time, personalized responses. It unifies multiple smart city services into one platform with chat-based interaction. |
|  | Social Impact / Customer Satisfaction | Empowers citizens to adopt sustainable practices, simplifies decision-making for city administrators, and enhances public engagement. This promotes environmental responsibility and improves urban quality of life. |
|  | Business Model (Revenue Model) | The solution can be offered as a SaaS platform for municipalities and educational institutions. Additional revenue streams may include subscription models for advanced analytics and partner APIs. |
|  | Scalability of the Solution | Designed modularly with APIs and cloud integration, the platform can scale across cities and regions. New models and features can be added with minimal changes to core infrastructure. |