**Ideation Phase**

**Define the Problem Statements**

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| Date | 20 June 2025 |
| Team ID | LTVIP2025TMID29572 |
| Project Name | Sustainable Smart City Assistant |
| Maximum Marks | 2 Marks |

## Customer Problem Statement By Functionality:

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| **Problem Statement (PS-1)** |  |
| **I am** | A citizen living in a rapidly growing urban area |
| **I’m trying to** | Live sustainably and contribute positively to my city’s development |
| **But** | I face challenges like inefficient recycling, rising pollution, and uneven access to city resources |
| **Because** | I lack access to real-time environmental data and city comparison tools |
| **Which makes me feel** | Disconnected, uninformed, and unable to make meaningful, eco-conscious decisions |

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| **Problem Statement (PS-2)** |  |
| **I am** | A resident trying to dispose of household waste responsibly |
| **I’m trying to** | Find the correct way to recycle different types of waste |
| **But** | I often don’t know which materials go into which bins. |
| **Because** | There is no easily accessible tool that gives personalized recycling suggestions |
| **Which makes me feel** | Confused and discouraged from recycling correctly |

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| **Problem Statement (PS-3)** |  |
| **I am** | A curious citizen interested in urban innovation |
| **I’m trying to** | Visualize what a sustainable future city could look like |
| **But** | I have no way to generate visuals or models based on my ideas or text inputs |
| **Because** | There are no tools that use AI to convert my imagination into visual representations |
| **Which makes me feel** | Limited in creativity and less engaged in future city planning |

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| **Problem Statement (PS-4)** |  |
| **I am** | A researcher or city planner |
| **I’m trying to** | Understand how my city compares to others in terms of sustainability |
| **But** | There’s no platform that provides side-by-side comparisons of urban health indicators |
| **Because** | Data is scattered and difficult to interpret without technical tools |
| **Which makes me feel** | Frustrated and uncertain about prioritizing improvements |