# Project Planning Document – Sustainable Smart City Assistant Using IBM Granite LLM

Date: 26 June 2025

Team ID: LTVIP2025TMID32000

Project Name: Sustainable Smart City Assistant Using IBM Granite LLM

## Product Backlog, Sprint Schedule, and Estimation

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Sprint** | **Epic** | **User Story Number** | **User Story / Task** | **Story Points** | **Priority** | **Team Members** |
| Sprint-1 | Project Initialization | USN-1 | Set up Streamlit environment and base application structure | 2 | High | All |
| Sprint-1 | IBM Watsonx Integration | USN-2 | Integrate IBM Watsonx Granite LLM and test API response | 2 | High | Goli Prabhas, Gajjala Tejaswini, Gude Sri Swarna Latha |
| Sprint-2 | Document Summarization | USN-3 | Upload policy documents and generate AI-powered summaries using Granite LLM | 3 | High | Goli Prabhas, Jaliparthi Lavanya, Gajjala Tejaswini |
| Sprint-2 | Eco Tips Generator | USN-4 | Generate actionable eco-friendly tips based on user input | 4 | High | Goli Prabhas, Gajjala Tejaswini, Gude Sri Swarna Latha |
| Sprint-3 | KPI Forecasting Module | USN-5 | Upload KPI dataset and forecast future resource usage | 5 | High | Goli Prabhas, Jaliparthi Lavanya, Gajjala Tejaswini |
| Sprint-3 | Anomaly Detection | USN-6 | Detect anomalies in resource consumption data | 3 | Medium | Gajjala Tejaswini, Goli Prabhas, Gude Sri Swarna Latha |
| Sprint-4 | Chat Assistant | USN-7 | Build conversational assistant for citizen queries related to sustainability | 3 | Medium | Goli Prabhas, Gajjala Tejaswini, Gude Sri Swarna Latha |
| Sprint-4 | UI Enhancement & Deployment | USN-8 | Polish UI and deploy final application on Streamlit Cloud or Virtual Machine | 4 | High | All |

## Project Tracker, Velocity & Burndown Chart

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Sprint** | **Total Story Points** | **Sprint Start Date** | **Sprint End Date** | **Story Points Completed** | **Sprint Release Date** |
| Sprint-1 | 4 | 01 July 2025 | 06 July 2025 | 4 | 06 July 2025 |
| Sprint-2 | 7 | 07 July 2025 | 12 July 2025 | 7 | 12 July 2025 |
| Sprint-3 | 8 | 13 July 2025 | 18 July 2025 | 7 | 18 July 2025 |
| Sprint-4 | 7 | 19 July 2025 | 24 July 2025 | 6 | 24 July 2025 |

**Average Velocity:** (4+7+7+6)/4=6 story points per sprint

**Figure:** Sprint-wise Burndown Chart (To be generated during actual project execution)

