Sustainable Smart City Assistant- Agile Scrum-

Date	30 June 2025
Team ID	LTVIP2025TMID29114
Project Name	Sustainable Smartcity Assistant Using IBM Granite LLM
Maximum Marks	

oriented

Sprint, Epic, Story, and Story Point Definitions – Sustainable Smart City Assistant

- **Sprint:** A fixed time-boxed development cycle (e.g., 2–5 days) during which the Smart City Assistant team delivers a functional increment (e.g., policy summarizer, feedback analyzer, KPI module).
- **Epic:** A large, user-centric feature that spans multiple stories and possibly sprints. Examples include:
    - "Policy Summarization Module"
    - "Citizen Feedback Analysis"
    - "KPI Forecasting Dashboard"
- **Story:** A specific task or sub-feature under an Epic. Examples include:
    - "Integrate IBM Granite LLM API"
    - "Build user role-based login system"
    - "Visualize KPI trends using Plotly"
- **Story Point:** An estimation unit (Fibonacci series: 1, 2, 3, 5, 8…) used to measure the complexity, effort, and time needed to complete a story.

Effort Level Story Points

Very Easy 1

Easy 2

Moderate 3–5

Difficult 8+

Sprint 1: User Roles & Policy Summarization (2 Days)

Epic: Role Management & Onboarding

- Role Selection for Citizen/Admin – 1
- User Authentication Setup – 2

Epic: Policy Summarization Module

- Create UI for Policy Upload/Display – 2
- Integrate IBM Granite LLM for summarization – 3

Sprint 1 Total Story Points = 8

Sprint 2: Feedback System & Eco Module (2 Days)

Epic: Citizen Feedback Analyzer

- Design Feedback Form UI – 2
- Implement NLP Analysis on Feedback – 3
- Visualize Feedback Sentiment in Dashboard – 2

Epic: Eco Tips Generator

- Generate Contextual Eco Tips using AI – 3
- Schedule Daily Tips per Role/City Zone – 2

Epic: Anomaly Detection

- Connect to Sample City KPI Dataset – 3
- Implement Threshold-Based Anomaly Alerts – 3

Sprint 2 Total Story Points = 18

Velocity Calculation:

- **Total Story Points =** Sprint 1 (8) + Sprint 2 (18) = **26**
- **Number of Sprints =** 2
- **Velocity =** 26 ÷ 2 = **13 Story Points per Sprint**