## Project Planning Phase Project Planning Template (Product Backlog, Sprint Planning, Stories, Story points)

Date	28 JUNE 2025
Team ID	LTVIP2025TMID60817
Project Name	Sustainable smart city assistant using IBM Granite LLM
Maximum Marks	5 Marks

## **✓** Project Tracker: Sustainable Smart City Assistant (IBM Granite LLM)

Sprint	Total Story Points	Duration	Sprint Start Date	Sprint End Date (Planned)	Story Points Completed (as on Planned End Date)	Sprint Release Date (Actual)
Sprint- 1	20	6 Days	24 Oct 2022	29 Oct 2022	20	29 Oct 2022
Sprint- 2	20	6 Days	31 Oct 2022	05 Nov 2022	18 (LLM fine-tuning incomplete)	06 Nov 2022 (1-day delay)
Sprint- 3	20	6 Days	07 Nov 2022	12 Nov 2022	15 (UI/UX backlog tasks)	13 Nov 2022
Sprint- 4	20	6 Days	14 Nov 2022	19 Nov 2022	TBD	TBD

## **✓** Velocity Calculation

Velocity=Total Completed Story PointsNumber of Completed Sprints\text{Velocity} = \frac{\text{Total Completed Story Points}}{\text{Number of Completed Sprints}}\velocity=Number of Completed SprintsTotal Completed Story Points \velocity=20(Sprint1)+18(Sprint2)+15(Sprint3)3=533≈17.67 SP/sprint\text{Velocity} = \frac{20 (Sprint 1) + 18 (Sprint 2) + 15 (Sprint 3)}{3} \approx 17.67 \text{SP/sprint}\velocity=320(Sprint1)+18(Sprint2)+15(Sprint3)=353≈17.67 SP/sprint

**✓** Average Velocity per Day (10-day Sprint Duration Basis)

If we imagine a 10-day sprint, then:

Average Velocity (AV)=17.676≈2.945 story points/day\text{Average Velocity (AV)} = \frac{17.67}{6} \approx 2.945 \text{ story points/day}Average Velocity (AV)=617.67≈2.945 story points/day

So, team completes on average ~2.95 story points per day.

**✓** Burndown Chart (Sprint-3 Example)

Sprint-3 Plan: 20 Story Points Over 6 Days

Day Planned Remaining SP Actual Remaining SP

Day 0 20 20

Day 1 16.67 18

Day 2 13.34 16

Day 3 10 12

Day 4 6.67 9

Day 5 3.34 5

Day 6 0 5

Note: 5 SP left incomplete; will roll over to Sprint-4.

You can visualize this chart using Excel or tools like Jira, Visual Paradigm, or even draw a simple XY chart where:

• X-axis: Days (0-6)

- Y-axis: Remaining Story Points
- Show Planned vs Actual as two lines.

## ✓ Summary for Sustainable Smart City Assistant Using IBM Granite LLM

**Component** Details

Purpose Build Al-powered assistant for urban sustainability and smart services

Al Core IBM Granite LLM for natural language understanding

Sprints Planned 4 Sprints, each 6 days

Current Velocity ~17.67 SP/Sprint

Average Velocity (AV) ~2.95 SP/Day

Tracking Tools Jira, Excel, or Visual Paradigm for burndown visualization