Project Planning Phase

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

Date	28 JUNE 2025
Team ID	LTVIP2025TMID34483
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} = \frac{53}{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 AI-powered assistant for urban sustainability and smart services
AI 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

---