**Project Planning Phase**

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

|  |  |
| --- | --- |
| Date | 15 February 2025 |
| Team ID | LTVIP2025TMID60699 |
| Project Name | Sustainable Smart City Assistant Using IBM Granite LLM |
| Maximum Marks | 5 Marks |

**Product Backlog & Sprint Schedule**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Sprint** | **Functional Requirement (Epic)** | **User Story No.** | **User Story / Task** | **Story Points** | **Priority** |
| **Sprint-1** | **Dashboard** | **USN-1** | **As a user, I can view real-time metrics like AQI, water, energy, and traffic levels.** | **3** | **High** |
| **Sprint-1** |  | **USN-2** | **As a user, I can switch between city data and themes easily.** | **2** | **Medium** |
| **Sprint-2** | **Forecasting** | **USN-3** | **As a user, I can view short-term forecasts for AQI, water usage, and traffic.** | **3** | **High** |
| **Sprint-2** |  | **USN-4** | **Forecasts are displayed in an easy-to-understand format.** | **2** | **Medium** |
| **Sprint-3** | **Anomaly Detection** | **USN-5** | **As a user, I am notified of abnormal spikes in AQI, energy, or water consumption.** | **3** | **High** |
| **Sprint-3** |  | **USN-6** | **Anomalies are marked clearly on graphs.** | **2** | **Medium** |
| **Sprint-4** | **Chat Assistant** | **USN-7** | **As a user, I can ask city-related or eco-friendly questions in a chat interface.** | **3** | **Medium** |
| **Sprint-4** | **Summarizer** | **USN-8** | **As a user, I receive a weekly summary of my city’s environmental health.** | **2** | **Medium** |
| **Sprint-5** | **Eco Tips** | **USN-9** | **As a user, I get useful eco tips based on my location and city conditions.** | **2** | **Medium** |
| **Sprint-5** | **Smart Alerts** | **USN-10** | **I only receive important alerts and warnings (not spam).** | **2** | **High** |

**Project Tracker, Velocity & Sprint Info**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Sprint** | **Total Story Points** | **Duration** | **Sprint Start Date** | **Sprint End Date (Planned)** | **Story Points Completed** | **Sprint Release Date** |
| **Sprint-1** | **5** | **5 days** | **01 Jul 2025** | **05 Jul 2025** | **5** | **05 Jul 2025** |
| **Sprint-2** | **5** | **5 days** | **07 Jul 2025** | **11 Jul 2025** | **5** | **11 Jul 2025** |
| **Sprint-3** | **5** | **5 days** | **13 Jul 2025** | **17 Jul 2025** | **5** | **17 Jul 2025** |
| **Sprint-4** | **5** | **5 days** | **19 Jul 2025** | **23 Jul 2025** | **5** | **23 Jul 2025** |
| **Sprint-5** | **4** | **5 days** | **25 Jul 2025** | **29 Jul 2025** | **4** | **29 Jul 2025** |

**Velocity**

**The team completes around 5 story points per 5-day sprint.  
Average Velocity = 5 story points ÷ 5 days = 1 point/day**

**Burndown Summary**

|  |  |
| --- | --- |
| **Sprint** | **Story Points Remaining** |
| **Start** | **24** |
| **Sprint-1** | **19** |
| **Sprint-2** | **14** |
| **Sprint-3** | **9** |
| **Sprint-4** | **4** |
| **Sprint-5** | **0** |

**This reflects smooth and consistent progress toward completion.**