Agile Sprint Planning

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| Date | 18 jun 2025 |
| Team ID | LTVIP2025TMID32673 |
| Project Name | Sustainable Smart City Assistant AI by using IBM granite LLM |
| Max marks | 5 marks |

**Product Backlog, Sprint Schedule, and Estimation (4 Marks)**

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| --- | --- | --- | --- | --- | --- | --- |
| Sprint | Functional Requirement (Epic) | User Story Number | User Story / Task | Story Points | Priority | Team Members |
| Sprint-1 | Data Integration | USN-1 | As a developer, I can collect and load smart city data (traffic, energy, waste). | 3 | High | Data Engineering Team |
| Sprint-1 | Data Preprocessing | USN-2 | As a data scientist, I can clean and preprocess the data for training. | 3 | High | AI Team |
| Sprint-1 | Model Design | USN-3 | As an AI lead, I can define an AI model for citizen engagement & resource usage. | 2 | Medium | AI Team |
| Sprint-1 | Dashboard Setup | USN-4 | As a developer, I can create HTML UI for displaying insights. | 2 | Medium | UI/UX Devs |
| Sprint-2 | Model Training & Testing | USN-5 | As a data scientist, I can train the ML model and test performance. | 5 | High | AI Team |
| Sprint-2 | Integration | USN-6 | As a dev, I can integrate the model with the frontend dashboard. | 3 | High | Full Stack Team |
| Sprint-2 | Deployment | USN-7 | As an engineer, I can deploy the assistant via Flask to a server. | 5 | High | DevOps Team |
| Sprint-2 | Feedback Logging | USN-8 | As a user, I can give feedback to the city authority through chatbot. | 2 | Medium | Backend Devs |

**Project Tracker, Velocity & Burndown Chart (4 Marks)**

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| --- | --- | --- | --- | --- | --- |
| Sprint | Total Story Points | Sprint Start Date | Sprint End Date (Planned) | Story Points Completed | Sprint Release Date |
| Sprint-1 | 10 | 15 jun 2025 | 21 jun 2025 | 10 | 27 jun 2025 |
| Sprint-2 | 15 | 21 jun 2025 | 27 jun 2025 | 15 | 27jun 2025 |

**Velocity Calculation**

Total Story Points: 25

Total Sprints: 2

Velocity = 25 ÷ 2 = 12.5 story points per sprint

Daily Average Velocity = 12.5 ÷ 6 = 2.08 story points/day

**Suggested Burndown Chart Data**

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| --- | --- | --- |
| Day | Planned SP Remaining | Actual SP Remaining |
| Day 1 | 25 | 25 |
| Day 2 | 20 | 22 |
| Day 3 | 15 | 18 |
| Day 4 | 10 | 13 |
| Day 5 | 5 | 5 |