**Project Planning Phase**

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

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| --- | --- |
| Date | 27 June 2025 |
| Team ID | LTVIP2025TMID30146 |
| Project Name | Garage management system |
| Maximum Marks | 5 Marks |

**Product Backlog, Sprint Schedule, and Estimation**

| Sprint | Functional Requirement (Epic) | User Story Number | User Story / Task | Story Points | Priority | Team Members |
| --- | --- | --- | --- | --- | --- | --- |
| Sprint-1 | Data Collection | USN-1 | As a developer, I want to collect vehicle service logs, issues, and parts inventory data for AI reference. | 2 | High | Pavithra |
| Sprint-1 | Data Preprocessing | USN-2 | As a developer, I want to clean and preprocess the data to handle missing values. | 3 | High | Pavithra |
| Sprint-1 | Data Preprocessing | USN-3 | As a developer, I want to encode categorical values such as vehicle type, part name, and service category. | 2 | Medium | Pavithra |
| Sprint-2 | Model Integration | USN-4 | As a user, I want the system to provide AI-based troubleshooting using IBM Granite prompts. | 5 | High | Pavithra |
| Sprint-2 | Testing | USN-5 | As a tester, I want to verify the AI model’s responses for different vehicle-related inputs. | 3 | High | Pavithra |
| Sprint-2 | Frontend | USN-6 | As a user, I want to access the AI assistant via a Gradio UI with booking and inventory tabs. | 3 | High | Pavithra |
| Sprint-2 | Deployment | USN-7 | As a developer, I want to deploy the Gradio app and integrate it with Salesforce. | 5 | High | Pavithra |

Project Tracker, Velocity & Burndown Chart

| Sprint | Total Story Points | Duration | Sprint Start Date | Sprint End Date (Planned) | Story Points Completed | Sprint Release Date |
| --- | --- | --- | --- | --- | --- | --- |
| Sprint-1 | 8 | 5 Days | 17 Aug 2025 | 21 Aug 2025 | 8 | 21 Aug 2025 |
| Sprint-2 | 16 | 5 Days | 22 Aug 2025 | 26 Aug 2025 | 16 | 26 Aug 2025 |

**Velocity Calculation**

Velocity = Total Story Points Completed / Number of Sprints

= (8 + 16) / 2

= 12 Story Points / Sprint

Team Velocity: 12 Story Points per Sprint