# Project Planning Phase

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

| Date | 2$^{nd}$ November 2025 |
|---|---|
| **Team ID** | NM2025TMID02975 |
| **Project Name** | Garage Management System |
| **Maximum Marks** | 5 Marks |

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

Use the below template to create product backlog and sprint schedule.

| Sprint | Functional Requirement (Epic) | User Story Number | User Story / Task | Story Points | Priority | Team Members |
|---|---|---|---|---|---|---|
| Sprint-1 | User Management | USH-1 | As an admin, I can create mechanic and customer profiles for the garage system. | 2 | High | R. Hariharan |
| Sprint-1 | Vehicle Management | USH-2 | As a customer, I can register my vehicle details to book repair or service appointments. | 4 | High | T. Thirukumaran |
| Sprint-2 | Service Booking | USH-3 | As a customer, I want to schedule a service or repair appointment with preferred date and mechanic. | 3 | High | S. Kavi Bharath |
| Sprint-2 | Billing | USH-4 | As an admin, I should view service cost and generate digital invoices for completed jobs. | 4 | High | S. Jawahar |
| Sprint-3 | Feedback | USH-5 | As a customer, I can give feedback and rate the service for future improvement. | 2 | Medium | S. Jawahar |
| Sprint-3 | Reports & Documentation | USH-6 | As an admin, I can generate monthly reports on completed services, revenue, and mechanic performance. | 2 | Medium | T. Thirukumaran |

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

| Sprint | Total Story Points | Duration | Sprint Start Date | Sprint End Date (Planned) | Story Points Completed (as of Planned End Date) | Sprint Release Date (Actual) |
|---|---|---|---|---|---|---|
| Sprint-1 | 20 | 2 Days | 24 Oct 2025 | 25 Oct 2025 | 20 | 25 Oct 2025 |
| Sprint-2 | 20 | 2 Days | 26 Oct 2025 | 27 Oct 2025 | 20 | 27 Oct 2025 |
| Sprint-3 | 20 | 3 Days | 28 Oct 2025 | 30 Oct 2025 | 19 | 30 Oct 2025 |
| Sprint-4 | 20 | 3 Days | 31 Oct 2025 | 2 Nov 2025 | 20 | 2 Nov 2025 |

**Velocity**

Average velocity = (Total Story Points Completed) ÷ (Total Duration in Days)

Total: 79 points over 10 days → **Velocity = 7.9 points/day**

**Burndown Chart**

A burndown chart is a graphical representation of work left to do versus time.
It is often used in agile software development methodologies such as Scrum.
Burndown charts can be applied to any project to measure progress over time.

**References**

- https://www.visual-paradigm.com/scrum/scrum-burndown-chart/
- https://www.atlassian.com/agile/tutorials/burndown-charts
- https://www.atlassian.com/agile/project-management
- https://www.atlassian.com/agile/tutorials/how-do-scrum-with-jira-software
- https://www.atlassian.com/agile/tutorials/velocity
- https://www.atlassian.com/agile/tutorials/sprints
- https://www.atlassian.com/agile/project-management/estimation
- https://www.atlassian.com/agile/tutorials/burndown-charts