

## Project Planning Phase

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

Date	27 OCTOBER 2025
Team ID	NM2025TMID05681
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	Staff Management	GMS-1	As an admin, I can create staff profiles (mechanics, service advisors) for system setup.	2	High	Barjushfathima P
Sprint-1	Vehicle Registration	GMS-2	As a service advisor, I can register a customer's vehicle with details for servicing.	3	High	Atchaya B
Sprint-1	Service Categories Setup	GMS-3	As an admin, I can configure different service types (e.g., oil change, engine repair).	2	Medium	Manjula R
Sprint-2	Job Assignment	GMS-4	As a supervisor, I want to assign a mechanic to a vehicle service job.	3	High	Selvapriya A
Sprint-2	Deletion Restriction Rule	GMS-5	As a system admin, I want to restrict deletion of staff assigned to ongoing services.	5	High	Atchaya B

Sprint-2	Testing	GMS-6	As a tester, I should verify that staff assigned to active jobs cannot be deleted.	3	High	Atchaya B
Sprint-2	Testing	GMS-7	As a tester, I should verify that unassigned staff can be deleted successfully.	2	Medium	Manjula R
Sprint-3	Service Completion Workflow	GMS-8	As a mechanic, I want to update job status once service is completed.	3	Medium	Barjushfathima P
Sprint-3	Billing & Invoice Generation	GMS-9	As a cashier, I can generate an invoice after service completion.	4	Medium	Selvapriya A
Sprint-3	Documentation	GMS-10	As a developer, I want to document architecture, modules, and testing for submission.	3	Low	Manjula R

#### Project Tracker, Velocity & Burndown Chart: (4 Marks)

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	18	6 Days	1 November 2025	06 November 2025	18	05 November 2025
Sprint-2	20	6 Days	07 November 2025	12 November 2025	20	12 November 2025

Sprint-3	20	6 Days	13 November 2025	18 November 2025	19	18 November 2025
Sprint-4	20	6 Days	19 November 2025	25 November 2025	20	25 November 2025

## Velocity

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

Total: 16 points over 9 days → **Velocity = 1.78 points/day**

### Burndown Chart:

A burn down chart is a graphical representation of work left to do versus time. It is often used in agile software development methodologies such as Scrum. However, burn down charts can be applied to any project containing measurable progress over time.

<https://www.visual-paradigm.com/scrum/scrum-burndown-chart/>

<https://www.atlassian.com/agile/tutorials/burndown-charts>

Reference: <https://www.atlassian.com/agile/project-management>

<https://www.atlassian.com/agile/tutorials/how-to-do-scrum-with-jira-software>      <https://www.atlassian.com/agile/tutorials/epics>

<https://www.atlassian.com/agile/tutorials/sprint>

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<https://www.atlassian.com/agile/project-management/estimation>

<https://www.atlassian.com/agile/tutorials/burndown-charts>