

Project Design Phase

Problem – Solution Fit Template

Date	07 NOV 2025
Team ID	NM2025TMID08995
Project Name	Garage Management System
Maximum Marks	4 Marks

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

Sprint Requirement	Functional	User	Story	Team	
	Story	User Story / Task	Priority	Points	Members
Sprint-1	(Epic) Number	Customer & Vehicle Registration Service	As an admin, I can register vehicles in the system.	3	N. Durga
	Category	USN-1	new customers and their service categories (e.g., Manoj Management repair, wash, maintenance).	High	Mahendra
Sprint-1	Job Assignment	USN-2	As a manager, I can assign jobs to mechanics based on skill and availability.	2	R. S. S.
Sprint-2	Inventory Tracking	USN-3	As an admin, I can update spare parts inventory.	3	Gowtham
		USN-4	and monitor spare parts inventory.	4	O. Sravani

As a cashier, I can generate

Sprint- Billing and

N. Durga

3 Payment USN-5 Mahendra invoices and manage 4 Medium
payments after services.

As a customer, I can receive

Sprint- Notification

SMS or email notifications

3 System USN-6 about service status and 3 Medium R. Kiran
completion.

As a manager, I can generate

Sprint- Reports &

4 Feedback USN-7 daily/weekly reports and 2 Low O. Sravani
view customer feedback.

Project Tracker, Velocity & Burndown Chart (4 Marks)

Total	Sprint	Story Points	Sprint End	Sprint Release
Sprint	Story Duration	Start Date	Completed (as on Date (Planned))	
	Points	Date	Planned End Date	Date (Actual)
Sprint-		01 NOV		

	15	6 Days	06 NOV 2025	15	06 NOV 2025
1			2025		
Sprint-			07 NOV		
2	18	6 Days	12 NOV 2025	18	12 NOV 2025
			2025		
Sprint-			13 NOV		
3	20	6 Days	18 NOV 2025	19	18 NOV 2025
			2025		
Sprint-			19 NOV		
4	15	6 Days	24 NOV 2025	15	24 NOV 2025
			2025		

Velocity Calculation

Average Velocity = (Total Story Points Completed) / (Total Duration in Days)
= (67 Story Points) / (24 Days) = **2.79 Points/Day**

Burndown Chart

A **Burndown Chart** represents the work remaining versus time across sprints. In this project, tasks such as registration, job management, billing, and reporting are tracked to ensure continuous progress. It helps the team maintain timely delivery and identify workflow bottlenecks.

References:

- <https://www.visual-paradigm.com/scrum/what-is-agile-software-development>
- <https://www.atlassian.com/agile/tutorials/burndown-charts>
- <https://www.atlassian.com/agile/tutorials/sprints>
- <https://www.atlassian.com/agile/projectmanagement/estimation>

