

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)

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

As a cashier, I can generate						
Sprint- Billing and						
3	Payment	USN-5 Mahendra	invoices and manage	4	Medium	N. Durga
			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	Completed (as on	Date (Planned)	
	Points		Date	Planned End Date)	Date (Actual)	
Sprint-			01 NOV			

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

