

Project Design Phase Problem – Solution Fit Template

Date	06 NOV 2025
Team ID	NM2025TMID04446
Project Name	Garage Management System
Maximum Marks	4 Marks

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

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-1	Customer & Vehicle Registration Service Category	USN-1	As an admin, I can register new customers and their vehicles in the system. As a garage manager, I can add and manage different	3	High	N. Durga Mahendra
Sprint-1		USN-2	Management repair, wash, maintenance). As a manager, I can assign	2	High	R. S. S. service categories (e.g., Manoj
Sprint-2	Job Assignment	USN-3	As a manager, I can assign jobs to mechanics based on 3 skill and availability.	3	High	N. Gowtham
Sprint-2	Inventory Tracking	USN-4	As an admin, I can update and monitor spare parts inventory.	4	High	O. Sravani
Sprint-3	Billing and Payment	USN-5 Mahendra	As a cashier, I can generate invoices and manage	4	Medium	N. Durga

			payments after services.			
			As a customer, I can receive			
			SMS or email notifications			
		USN-6		3	Medium	R. Kiran
3	System	about service status and				
		completion.				
			As a manager, I can generate			
		USN-7		2	Low	O. Sravani
		daily/weekly reports and				
4	Feedback	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		
	Points		Date	Date (Planned)	Planned End Date)	Date (Actual)
Sprint-1	15	6 Days	01 NOV 2025	06 NOV 2025	15	06 NOV 2025
Sprint-2	18	6 Days	07 NOV 2025	12 NOV 2025	18	12 NOV 2025
Sprint-3	20	6 Days	13 NOV 2025	18 NOV 2025	19	18 NOV 2025
Sprint-4	15	6 Days	19 NOV 2025	24 NOV 2025	15	24 NOV 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/project-management/estimation>

