

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

Sprint- Notification	3	System	USN-6 about service status and completion.	As a customer, I can receive SMS or email notifications	3 Medium R. Kiran
Sprint- Reports & Feedback	4	Feedback	USN-7 As a manager, I can generate daily/weekly reports and view customer feedback.	2	Low O. Sravani

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

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

