

Ideation Phase

Brainstorm & Idea Prioritization

Template

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

Garage Management System Template:

This guided project demonstrates how to design and implement a Garage Management System (GMS) that helps automate and organize daily garage operations. The system focuses on managing customer details, vehicle information, service records, billing, and inventory in a single integrated platform.

The GMS ensures efficient workflow between mechanics, service advisors, and customers by maintaining real-time updates on vehicle service status and inventory availability. It reduces manual paperwork, prevents scheduling conflicts, and improves overall service quality.

The workflow also includes test scenarios such as adding new customer records, assigning vehicles for servicing, and generating invoices. This ensures that every module of the system—customer management, vehicle tracking, and service scheduling—works smoothly together. The system ultimately helps garage owners improve productivity, maintain accurate records, and deliver better customer satisfaction.

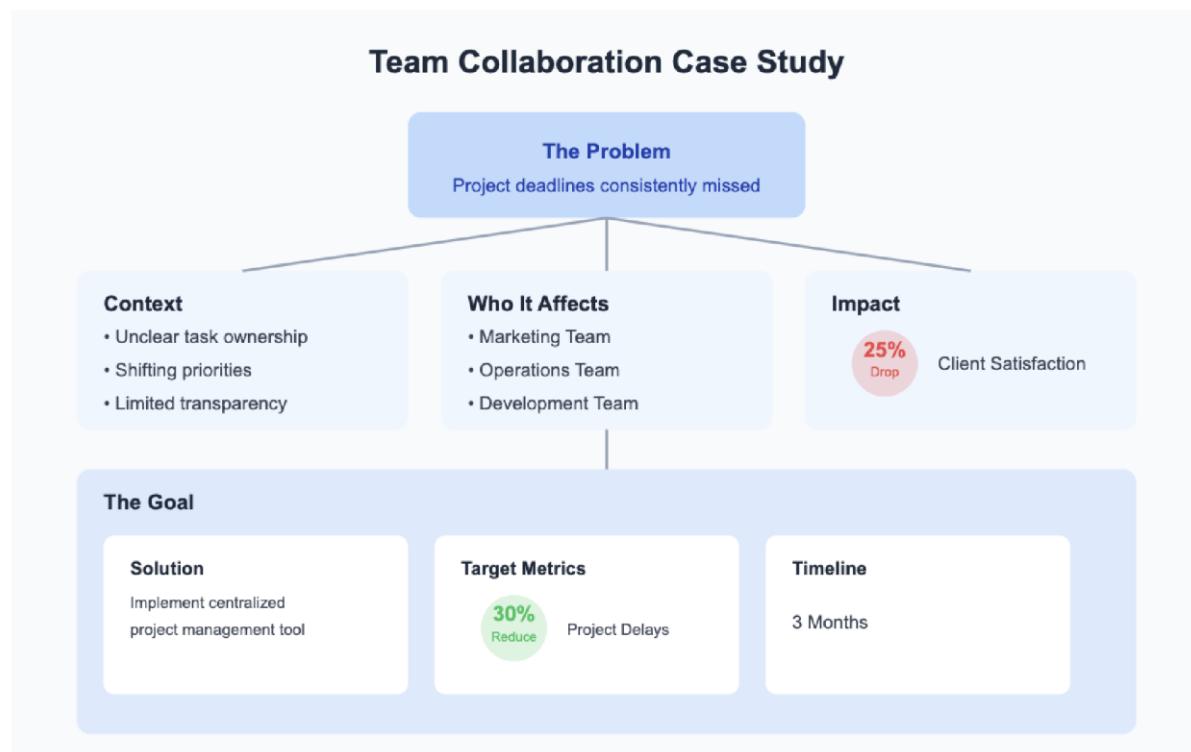
The screenshot shows the SH GARAGE MANAGEMENT SYSTEM dashboard. On the left, there's a sidebar with navigation links for Dashboard, Repair Orders, Counter Sale, Inventory, Accounts, Reports, Employee, Vendor, Item Master, Users, Reset Password, Manage Profile, Settings, and Logout. A Google Play button is also present. The main area has a header with 'GARAGE MENU' and 'SH GARAGE MANAGEMENT SYSTEM'. It displays various metrics: Created (17), In Progress (3), Completed (94), Payment Due (\$49147.48), Total Expense (0.00), and Total Income (0.00). Below these are sections for 'ONGOING REPAIRS ORDERS' and a detailed table of invoices. The table columns include Status, Invoice Number, Invoice Date, Vehicle Number, Brand - Model, Customer Name, Total Amount, Paid Amount, Due Amount, and Action. The table shows 20 entries, with the last entry being INV134 from 21 Oct 2020 for a Hyundai HD 68 with a total amount of \$3381.53.

Status	Invoice Number	Invoice Date	Vehicle Number	Brand - Model	Customer Name	Total Amount	Paid Amount	Due Amount	Action
Created	INV103	20 Nov 2019	MH858585	Alfa Romeo-147 3 Doors	Shabbir	0	0	0	View
Created	INV104	20 Nov 2019	JLR001	Audi-A4	Shabbir	0	0	0	View
Created	INV105	21 Nov 2019	MH25652652	Audi-A4	Mohammad Ali	0	0	0	View
Created	INV106	22 Nov 2019	JFJIFGJF	Acura-Mdx	Shabbir	0	0	0	View
Created	INV107	22 Nov 2019	GJ1556955	Honda-City ZX	ShabbirHasan	0	0	0	View
In Progress	INV108	23 Nov 2019	MH4545652	Audi-A4	ShabbirHasan	1789.75	0	1789.75	View
Created	INV110	23 Nov 2019	MH56AF6565	Audi-A6	Google User	0	0	0	View
Created	INV112	23 Nov 2019	MH656562	Honda-City	Abbas Ali	0	0	0	View
Created	INV114	23 Nov 2019	MH85855	Acura-Mdx	Shabbir	0	0	0	View
In Progress	INV134	21 Oct 2020	MH01AE1010	Hyundai-HD 68	Dhruva	3381.53	0	3381.53	View

Step-1: Team Gathering, Collaboration, and Selecting the Problem Statement :

The team collaborated to identify common issues faced in garage operations such as inefficient record management, loss of service data, and poor customer follow-up. After group discussions and idea comparison, the team selected the Garage Management System as the primary problem statement to address these inefficiencies using a structured digital solution.

Reference: <https://www.mural.co/templates/brainstorm-and-idea-prioritization>



Step-2: Brainstorm, Idea Listing, and Grouping :

Brainstorm: Team members freely contributed ideas on improving garage operations — from online booking systems and service tracking to automated billing and reminders.

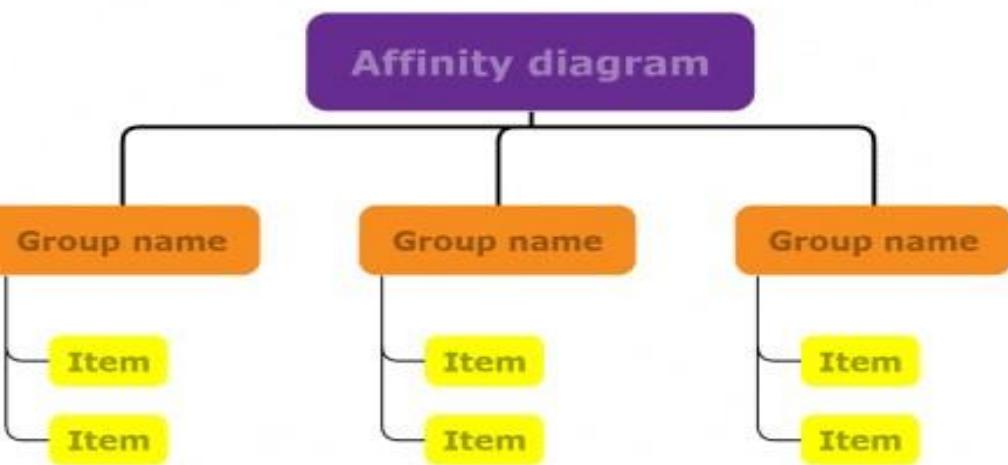
Idea Listing: All proposed ideas were documented, including:

- Vehicle service history tracking
- Digital invoicing system
- Mechanic performance monitoring
- Real-time service status updates
- Customer feedback integration

Grouping: Ideas were grouped under key modules:

- Customer Management
- Service Scheduling
- Inventory Control
- Billing & Payment
- Reports & Analytics

Action Planning: Each module was assigned to team members with clear goals and deadlines for implementation and testing.



Step-3: Idea Prioritization :

Idea prioritization helps break down the Garage Management System into focused, manageable modules. The main goal is to ensure all vehicle and customer records are centralized, making garage operations transparent and efficient. Prioritizing features such as service scheduling and digital billing ensures that critical functionalities are developed first.

The screenshot shows the 'Garage Management System Menu' window. At the top, there are five buttons: 'Add Vehicle', 'Update Vehicle Status', 'Make Action', 'Print By Vehicle Status', and 'View Full Vehicle Details'. Below the menu bar is a search form with various dropdowns and input fields for vehicle details like Plate Number, Type, Model, License Type, Engine Type, Engine Capacity, Number of wheels, Wheels' Manufacturer, Wheels' Air Pressure, Number Of Doors, Color, Status, Fuel Type, Client Name, and Client Phone. A large 'Submit' button is located at the bottom right of the form area.

By prioritizing ideas effectively, the team can:

- Streamline workflow between mechanics and customers
- Improve data integrity and tracking accuracy
- Enhance user experience through automation