**Ideation Phase**

**Brainstorm & Idea Prioritization Template**

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| Date | 25 June 2025 |
| Team ID | LTVIP2025TMID31613 |
| Project Name | Garage Management System |
| Maximum Marks |  |

🧠 **Brainstorming Matter for Garage Management System**

1. **Stakeholders** 
   * Garage Owners

* + Mechanics/Technicians

* + Customers

* + Suppliers/Vendors

* + Service Advisors

1. **Problems to Solve** 
   * Manual tracking of service records

* + Missed appointments or inefficient booking

* + Lack of inventory control

* + Poor customer communication

* + Unclear billing/invoicing

* + No reminders for recurring services

1. **Core Features to Consider** 
   * **Customer Management**

* + 1. Add, view, update customer details

○ Vehicle history and preferences

* + **Job/Work Order Management**

* + 1. Create new jobs, assign to mechanics

○ Status tracking (Pending, In Progress, Completed)

* + **Appointment & Booking System**

* + 1. Schedule service

○ Reminders (SMS/Email)

* + **Inventory Management**

* + 1. Track spare parts and tools

○ Auto-replenish alerts

* + **Billing & Invoicing**

* + 1. Generate bills with labor + parts

○ Print/export options

○ Payment tracking

* + **Reports & Analytics**

* + 1. Revenue reports

○ Mechanic performance

○ Most serviced vehicle types

* + **Mobile Compatibility**

* + 1. Customer app for booking & tracking

○ Mechanic app for job updates

1. **Nice-to-Have Features** 
   * Loyalty points or discounts

* + GPS integration for pickup/delivery

* + Digital vehicle health card

* + Chat support or helpdesk

* + Feedback system

1. **Technology Stack Ideas** 
   * Backend: Node.js / Django / Laravel

* + Frontend: React / Angular / Vue

* + Database: PostgreSQL / MongoDB / MySQL

* + Mobile: Flutter / React Native

* + Notifications: Twilio / Firebase

* + Hosting: AWS / Azure