**Ideation Phase**

**Brainstorm & Idea Prioritization Template**

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| Date | 27 June 2025 |
| Team ID | LTVIP2025TMID30146 |
| Project Name | Garage management system |
| Maximum Marks | 4 Marks |

**Step 1: Team Gathering, Collaboration, and Select the Problem Statement**

**Objective:**To create an AI-powered Garage Management System that integrates with Salesforce and leverages the IBM Granite model to assist mechanics, service advisors, and customers in:

* Troubleshooting vehicle issues
* Managing service bookings
* Tracking parts inventory
* Providing maintenance schedules and cost estimates

The application will be deployed using Gradio for the AI interface and optionally embedded in Salesforce via Lightning Web Components (LWC).

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

| Category | Ideas |
| --- | --- |
| Vehicle Issue Analysis | AI-powered troubleshooting assistant (symptom → possible issue) |
| Maintenance Advisory | Suggest preventive maintenance schedules based on mileage/age |
| Service Booking | AI-assisted booking and rescheduling system |
| Parts Management | Inventory checker, alternative parts suggestions |
| Customer Communication | AI chatbot for FAQs and service status updates |
| Documentation | Auto-generate service invoices and job cards |
| Accessibility | Multi-language support for customer communication |
| Integration | Salesforce CRM integration for customer history and sales follow-ups |

**Step 3: Idea Prioritization**

| # | Idea | Impact | Feasibility | Notes |
| --- | --- | --- | --- | --- |
| 1 | AI Vehicle Troubleshooting | Very High | High | Uses IBM Granite model for diagnosing issues |
| 2 | Maintenance Scheduler | High | High | Uses mileage-based rules and AI prompts |
| 3 | Parts Inventory Checker | High | Medium | Requires integration with parts database |
| 4 | Invoice & Job Card Generator | Medium | High | Simple template-based output |
| 5 | AI Customer Chatbot | Very High | Medium | Tone and accuracy control needed |
| 6 | Multi-language Support | High | Medium | Needs translation API or bilingual model |
| 7 | Service Booking Automation | Medium | High | Works with Salesforce calendar and objects |
| 8 | Alternative Parts Suggestions | Medium | Medium | Data from manufacturer catalog needed |