# GARAGE MANAGEMENT SYSTEM

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## Garage Management System

## 1. Project Overview

This project focuses on the development of a "Garage Management System"

using Salesforce. The solution addresses the challenges of organizing, managing, and streamlining operations in a garage or auto service center. The goal is to deliver a unified system that enhances operational efficiency, improves customer satisfaction, and provides real-time data-driven insights for decision-making.

Through this project, the aim is to:

Centralize vehicle service records.
Streamline booking and service processes.

Enable efficient inventory and workforce management.

Provide an improved customer interaction and feedback

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Business Goals:

- 1. Improve the efficiency of garage operations by at least 30%.
- 2. Increase customer retention by offering better service and engagement.
- 3. Reduce errors in inventory and billing through automation.

## Specific Outcomes:

A user-friendly booking portal integrated into Salesforce. Real-time service tracking and updates for customers. Inventory management tools for parts and supplies. Dashboards for operational and financial reporting.

- 3. Salesforce Key Features and Concepts Utilized
  - 1. Salesforce Objects

oCustom objects for Vehicles, Services, and Inventory.

oStandard objects for Accounts, Contacts, and Cases to manage customer data.

#### 2. Process Automation

oFlows for service booking and approval processes.

oWorkflow Rules and Apex Triggers for inventory updates.

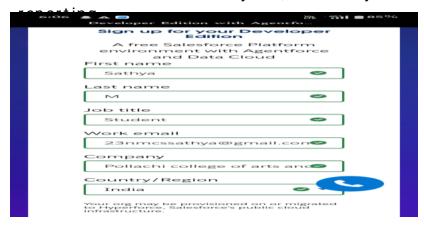
# 3. Customer Engagement Tools

oCommunities to enable customer self-service for booking and tracking.

oEmail and SMS integrations for notifications.

## 4. Reporting and Analytics

oD ashboards for service analytics, inventory tracking, and financial



#### 4. Detailed Steps to Solution Design

#### 1. Data Model Design:

oCustom objects: Vehicles, Service History, Inventory.

oRelationships between objects: A Vehicle can have multiple service records linked to a Contact or Account.

#### 2. User Interface:

oLightning App for Garage Management with custom pages for booking,

service history, and inventory.

oMobile app design for technicians to update statuses on the go.

## 3. Business Logic:

oAutomations for customer reminders, inventory updates, and service approvals.

oValidation rules to ensure data accuracy (e.g., service date must be in

the future).

## 5. Testing and Validation

Unit Testing:

oApex Classes and Triggers tested with >90% code coverage.

User Interface Testing:

oValidated UI components across desktop and mobile platforms.

oTested workflows for booking, inventory updates, and reporting. Integration Testing:

oValidated integrations with external systems like payment gateways and

SMS services.





- 6. Key Scenarios Addressed by Salesforce in the Implementation Project
  - 1. Customer Booking:

oCustomers can book services online and receive automated reminders.

2. Inventory Management:

oReal-time updates to inventory upon part usage during services.

3. Service Tracking:

oTechnicians can update service status, and customers receive live updates.

4. Feedback Collection:

oCustomers can provide feedback directly linked to service records for

continuous improvement.

#### 7.Conclusion

The Garage Management System built on Salesforce enhances the operational efficiency of garages through process automation, improves customer experience with real-time updates, and provides actionable insights via dashboards and reports. This scalable and robust system aligns with modern business needs and can adapt to future demands.