

Garage Management System (GMS)

Category: Salesforce Developer

Solution Architecture

Overview:

The solution is designed using Salesforce platform components ensuring scalability, performance, and data integrity.

Architecture Layers:

1. User Interface Layer – Lightning Web Components (LWC)
2. Business Logic Layer – Apex Classes and Triggers
3. Data Layer – Salesforce Custom Objects (Customer, Vehicle, Service Request, Invoice, Technician)
4. Automation Layer – Salesforce Flows, Process Builder, Validation Rules
5. Analytics Layer – Reports and Dashboards

Data Relationships:

Customer (1) → Vehicle (M)

Vehicle (1) → Service Request (M)

Service Request (M) → Technician (M)

Service Request (1) → Invoice (1)

Security:

- Role-based access control
- Field-level security
- Authentication via Salesforce Security Model

Deployment:

Deployed via Salesforce Developer Org using Change Sets or SFDX.