

Project Design Phase-II Technology Stack (Architecture & Stack)

Date	02 NOVEMBER 2025
Team ID	NM2025TMID05082
Project Name	Garage Management System
Maximum Marks	4 Marks

Technical Architecture:

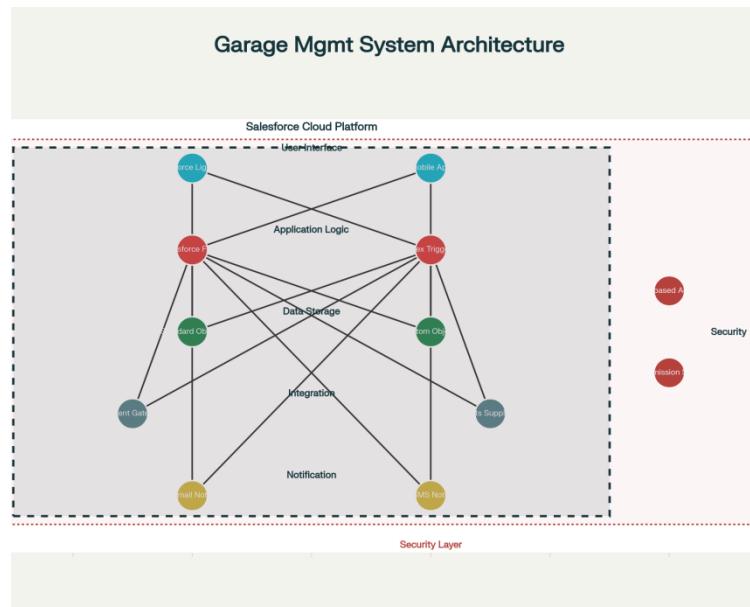


Table-1 : Components & Technologies:

S.No	Component	Description	Technology / Salesforce Tools
1	User Interface	Staff and customers interact via web and mobile interfaces	Salesforce Lightning Web Components, Salesforce Mobile App
2	Application Logic-1	Manages vehicle registration, service requests, assignment	Salesforce Flow Builder, Apex Triggers
3	Application Logic-2	Tracks service status updates and billing processes	Apex Classes, Salesforce Process Builder
4	Notification	Sends alerts and notifications to customers and staff	Salesforce Email Alerts, Salesforce Notification Builder, SMS Integration
5	Database	Stores vehicle, customer, service, technician, and billing data	Salesforce Custom Objects, Standard Objects (Account, Contact)
6	Cloud Database	Managed Salesforce cloud platform for reliable storage	Salesforce Cloud Database
7	File Storage	Stores service reports, invoices, and log files	Salesforce Files and Attachments
8	External API-1	Integrates with payment gateways for processing payments	Salesforce REST API, External Services
9	External API-2	Integrates with parts suppliers or inventory systems	Salesforce Connect, External APIs
10	Machine Learning	(Optional) Uses to predict service needs or customer churn	Salesforce Einstein Analytics or AI
11	Infrastructure	Cloud hosting with SaaS scalability and security	Salesforce Cloud Platform (SaaS)

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology / Salesforce Features
1	Open-Source Frameworks	Not applicable; Salesforce is a proprietary platform	-
2	Security Implementations	Role-based access control, field-level security, permission sets	Salesforce Profiles, Permission Sets, Field-Level Security (FLS)
3	Scalable Architecture	Cloud-native SaaS architecture, automatically scalable	Salesforce Multi-tenant Cloud Architecture
4	Availability	High availability with geographically distributed data centers	Salesforce Cloud with Load Balancing
5	Performance	Optimized with asynchronous processing, caching, indexes	Salesforce Apex Asynchronous Methods, Database Indexing