

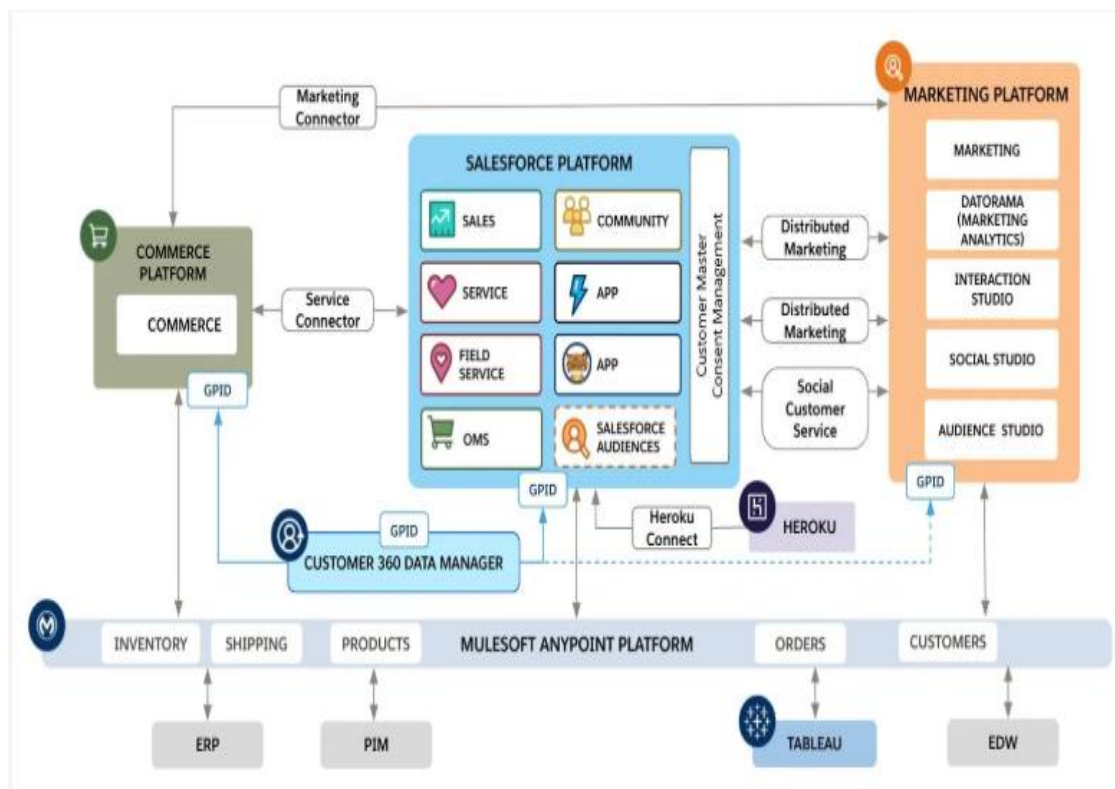
## Project Design Phase-II Technology Stack (Architecture & Stack)

Date	5 November
Team ID	NM2025TMID00401
Project Name	Garage management system
Maximum mark	4 Marks

### Technical Architecture:

The Garage management include the architectural diagram as below and the information as per the table1 & table 2 .

**Example:** Order processing during pandemics for offline mode



**Table-1 : Components & Technologies:**

S.No	Component	Description	Technology
1	<b>Frontend (User Interface)</b>	Interface for garage staff and admin users to manage vehicles, customers, and service records.	Salesforce Lightning Experience, Lightning Web Components (LWC)
2	<b>Backend (Business Logic)</b>	Handles business rules such as job creation, billing, and inventory management.	Salesforce Apex Classes, Triggers, Flows
3	<b>Database / Data Layer</b>	Stores customer, vehicle, job, and invoice data securely within Salesforce.	Salesforce Objects (Custom & Standard), SOQL
4	<b>Integration Layer</b>	Connects Salesforce with external systems like payment gateways or accounting software.	Salesforce REST & SOAP APIs, MuleSoft
5	<b>Reporting &amp; Analytics</b>	Provides reports and dashboards for performance monitoring and decision-making.	Salesforce Reports, Dashboards, Einstein Analytics

**Table-2: Application Characteristics:**

S.No	Application Characteristic	Description	Technology
1	<b>Scalability</b>	The application can easily support growing numbers of customers, vehicles, and service transactions without impacting performance.	Salesforce Cloud Platform, Multi-Tenant Architecture
2	<b>Security</b>	Protects sensitive customer and service data using secure authentication, authorization, and encryption mechanisms.	Salesforce Shield, Role-Based Access Control (RBAC), OAuth 2.0
3	<b>Performance</b>	Ensures fast response times for operations like service record retrieval, job card creation, and billing.	Salesforce Lightning Framework, Apex Optimization
4	<b>Reliability</b>	Provides consistent system availability and fault tolerance to ensure continuous garage operations.	Salesforce Platform Services (99.9% SLA)
5	<b>Maintainability</b>	Enables admins to modify workflows, rules, and reports without code changes for easy maintenance.	Salesforce Flow Builder, DevOps Center, Metadata API