

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

Date	28 June 2025
Team ID	LTVIP2025TMID29321
Project Name	Garbage Management System
Maximum Marks	4 Marks

### Technical Architecture:

The Deliverable shall 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 (for GMS)**

S.No	Component	Description	Technology
1	User Interface	Interface for manager and sales team (Desktop and Mobile)	Salesforce Lightning (Web), Salesforce Mobile App
2	Application Logic-1	Handles customer creation, appointment booking, and dashboard operations	Salesforce Flows, Process Builder
3	Application Logic-2	Service records and work order management logic	Apex Classes, Triggers
4	Application Logic-3	Complaint feedback classification and notification handling	Flow Builder + Email Alerts
5	Database	Customer details, appointment schedules, billing and service records	Salesforce Standard & Custom Objects
6	Cloud Database	Live record storage and real-time updates	Salesforce Platform Database
7	File Storage	Stores service invoices, customer uploads, and feedback screenshots	Salesforce Files / Attachments
8	External API-1	Optional GPS vehicle integration	Google Maps API (if required)
9	External API-2	Optional identity verification	Aadhaar eKYC API (UIDAI) – external if integrated
10	Automation	Automating reminders, status updates, escalations	Salesforce Flow, Approval Process
11	Infrastructure (Server / Cloud)	Runs within Salesforce cloud infrastructure	Salesforce Platform

### Application Characteristics

S.No	Characteristics	Description	Technology
1	Open-Source Frameworks	Use of Salesforce standard platform tools and optional open-source LWCs	Salesforce Lightning Platform, Open Source LWC, Apex
2	Security Implementations	Role-based access control, field-level security, encrypted data, login security	Profiles, Permission Sets, Field-Level Security, Shield Platform Encryption
3	Scalable Architecture	Built using Salesforce's multitenant cloud and modular App structure	Salesforce Multi-Tenant Cloud Architecture, AppExchange Integration
4	Availability	Highly available with Salesforce infrastructure SLA and redundant data centers	Salesforce Platform Infrastructure, High Availability Zones
5	Performance	Fast load times, optimized queries, page caching, governor limits considered	Lightning App Optimizer, Query Planning, Indexed Fields, Apex Best Practices