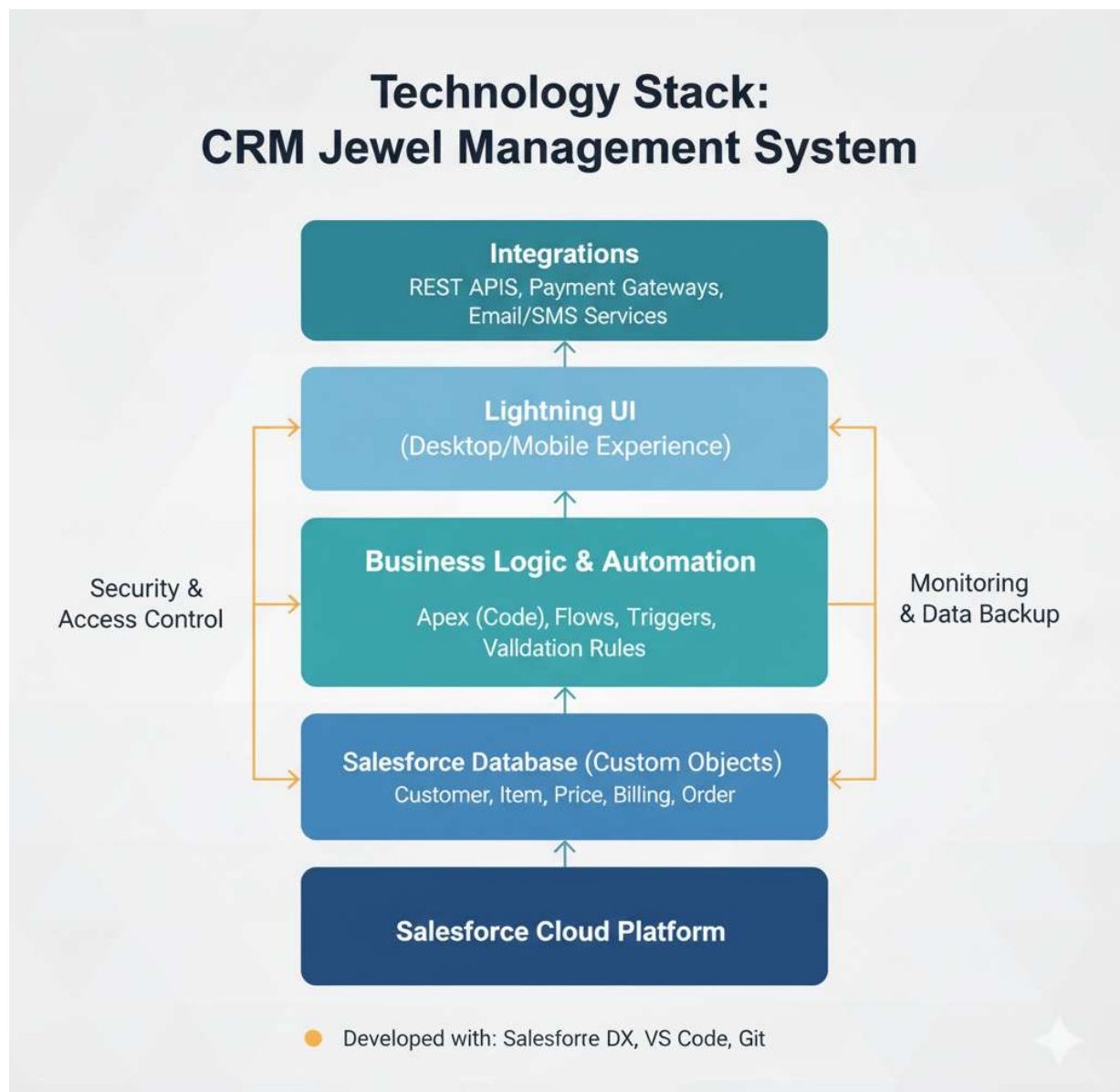


Project Design Phase-II

Technology Stack (Architecture & Stack)

Technical Architecture

The CRM Jewel Management System uses a three-tier architecture — user interface, logic layer, and database. It is hosted on the Salesforce Cloud, ensuring security, speed, and scalability for jewellery business management.



Key Features:

- Built on Salesforce Platform (SaaS)
- Web-based interface for admin and staff
- Centralized database for jewellery, customers, and billing
- Automated billing and email notifications
- Optional integration with payment and SMS APIs

Main Components:

1. User Interface (UI):
Staff manage jewellery, customers, and billing through a web dashboard (built using Salesforce Lightning Web Components).
2. Customer Management:
Handles customer registration, updates, and purchase tracking using Apex classes and Salesforce Flows.
3. Item & Inventory Management:
Maintains jewellery details, purity, quantity, and auto-updates during billing.
4. Billing & Notifications:
Generates bills automatically and sends emails or SMS alerts to customers.
5. Database:
Stores all jewellery, customer, and billing records securely in the Salesforce Object Database.
6. Cloud Infrastructure:
Hosted entirely on the Salesforce Cloud with 99.9% uptime and secure data handling.
7. External Integrations (Optional):
Supports payment gateways like Razorpay or PayPal and message APIs like Twilio.

8. Future Add-on:

Can include AI/ML for predicting best-selling jewellery or customer behavior using Salesforce Einstein.

System Characteristics:

- Security: Role-based access and encrypted data.
- Scalability: Can handle growing customers, items, and transactions.
- Performance: Fast operations using optimized Salesforce automation.
- Maintainability: Easy updates through modular design.
- Reliability: Consistent data and minimal downtime.
- Integration: REST APIs for linking with external tools.