

Project Design Phase

Solution Architecture

Date	01 November 2025
Team ID	NM2025TMID03998
Project Name	CRM Application for Jewel Management
Maximum Marks	4 Marks

Solution Architecture:

Goals of the Architecture:

- Provide a centralized system for jewellery customer and sales management.
- Maintain data accuracy across customer, product, and transaction modules.
- Simplify business operations by automating key tasks like billing and communication.
- Offer insights through analytics for better business decision-making.

Key Components:

- **Customer Module:** Stores customer details, purchase history, and loyalty information.
- **Product Module:** Maintains jewellery item details including type, purity, price, and availability.
- **Sales & Billing Module:** Manages sales transactions, invoices, and payment records.
- **Analytics Module:** Generates reports on sales performance and customer engagement.
- **Admin Dashboard:** Provides control over all modules and generates visual insights.

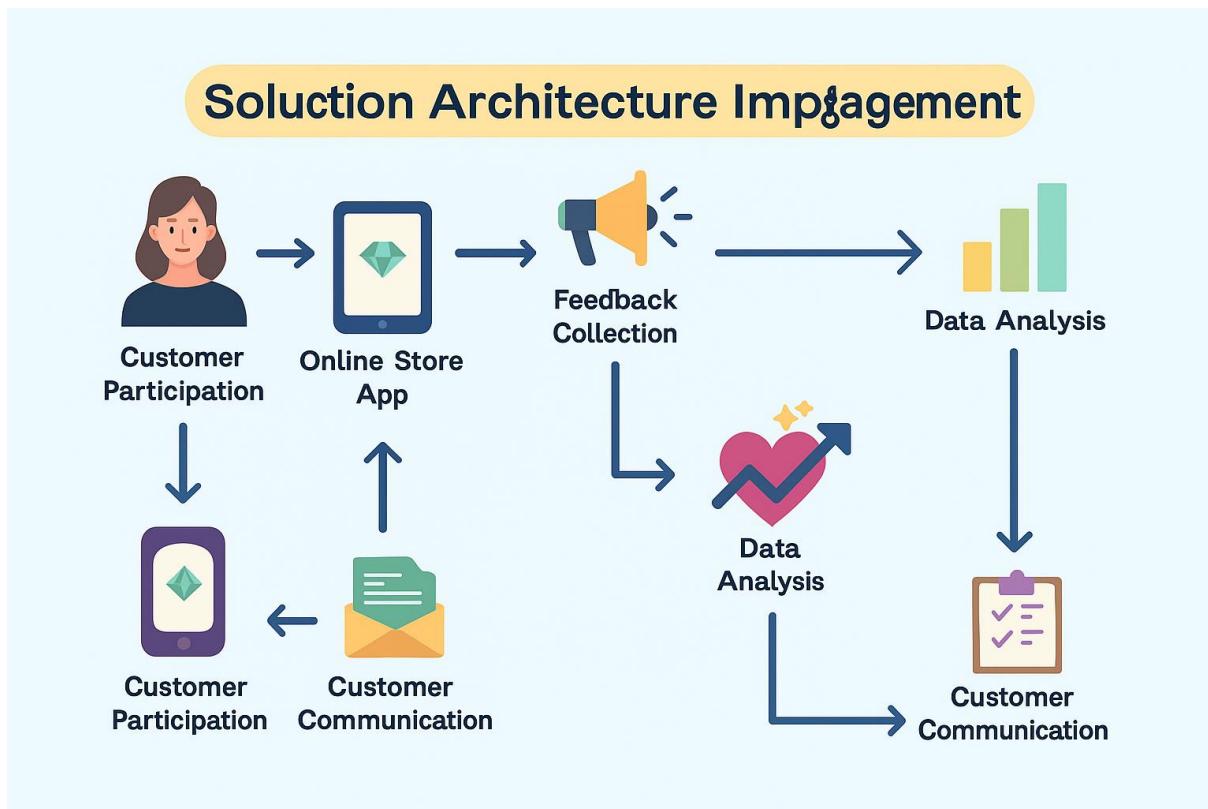
Development Phases:

1. Design customer and product data structure.
2. Implement modules for sales, billing, and reporting.
3. Integrate features for notifications and promotions.
4. Test all modules to ensure smooth operation and accurate data flow.

Solution Architecture Description:

The CRM Application for Jewellery Management is designed to streamline jewellery store operations by unifying customer, product, and sales data in a single platform. The architecture ensures smooth communication between all modules — allowing automatic data updates when sales occur and generating insights for business growth. It enhances efficiency, reduces manual errors, and ensures reliable customer relationship handling. The system's modular structure makes it easy to extend with future features like supplier management or online ordering.

Example - Solution Architecture Diagram:



Reference:

<https://aws.amazon.com/architecture/>

<https://aws.amazon.com/blogs/industries/architecture-and-design-considerations/>