

Salesforce Sync-Stock

Salesforce Project: Real-Time Inventory and Order Management System

Real-Time Inventory and Order Management: For a small e-commerce or retail business, build a system to manage products, orders and inventory. When a customer places an order from an Experience Cloud site, the system should update the available stock count instantly to prevent overselling. This can be achieved with a combination of Flows and Apex Triggers that run on order creation. You could also have a dashboard for the business owner that reflects sales and inventory levels in real-time.

Phase 1: Problem Understanding & Industry Analysis

- **Requirement Gathering:**
 - **Goal:** Define the system's core functions.
 - **Points:**
 - Track all products with available stock counts.
 - Enable order creation that links to product inventory.
 - Prevent overselling by instantly updating stock when an order is submitted.
 - Generate real-time reports and dashboards reflecting sales and inventory levels.
- **Stakeholder Analysis:**
 - **Goal:** Identify key users and their needs.
 - **Points:**
 - Business Owner (needs dashboard for insights).
 - Sales Team (creates/manages orders).
 - Customers (place orders via Experience Cloud).
 - Inventory Manager (monitors stock levels).
- **Business Process Mapping:**
 - **Goal:** Visualize the process flow.
 - **Points:**
 - Customer places order on site → Order record is created → Flow triggers Apex to check and deduct stock → Dashboard updates.
- **Industry-specific Use Case Analysis:**
 - **Goal:** Consider specific challenges.
 - **Points:**
 - E-commerce requires immediate, reliable stock updates to avoid disappointing customers with out-of-stock messages post-purchase. We need to handle high-volume, concurrent transactions.
- **AppExchange Exploration:**
 - **Goal:** Research pre-built solutions.
 - Look for "inventory management" or "order management" apps. Evaluate if a custom solution is more cost-effective and flexible.