Group 3

Product Inventory Management System

Description

An inventory management system is a software tool or a system for managing, tracking and optimizing a business's inventory, stock level, placing orders and inventory related tasks such as ordering, replenishment and fulfillment. These systems will help companies minimize stockout, reduce excessive inventory, optimize storage space and improve overall efficiency and profitability.
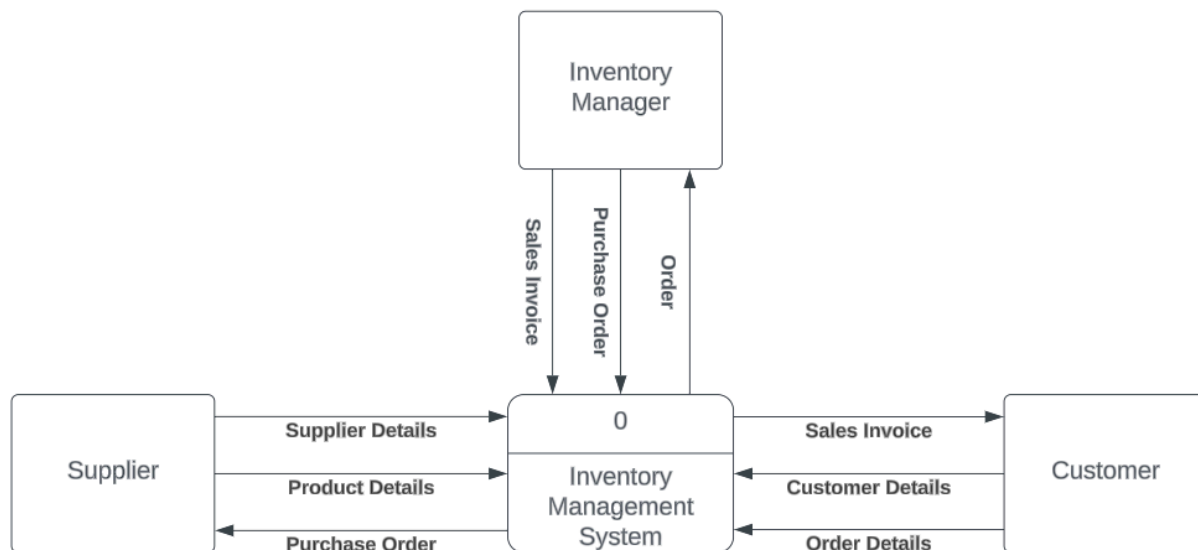

Figure 1: Data Flow Diagram 1

In this Data Flow Diagram Level 0 or Context Diagram, a simple or overview of the whole system.
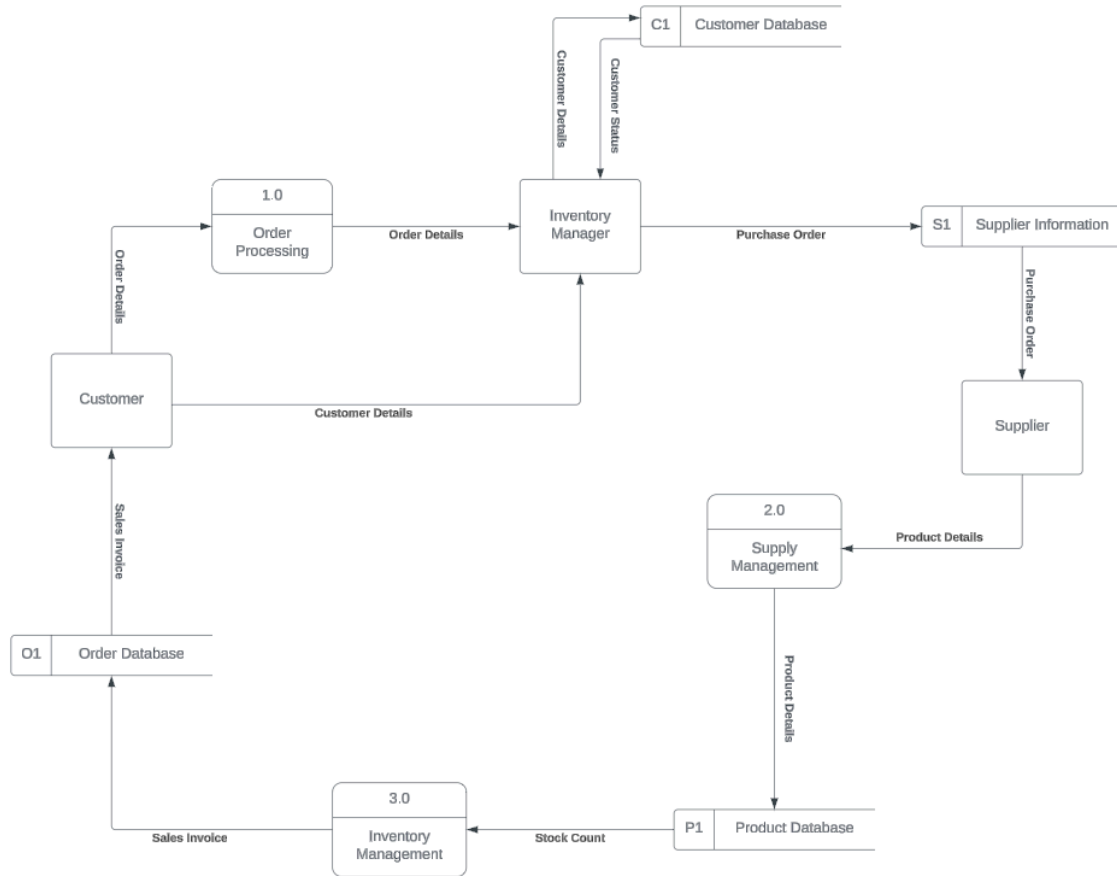
Figure 2: Data Flow Diagram 1

In this diagram, it shows the breakdown of the Inventory Management System process shown in the context diagram above. It contains three processes, three external entities, and four data stores.
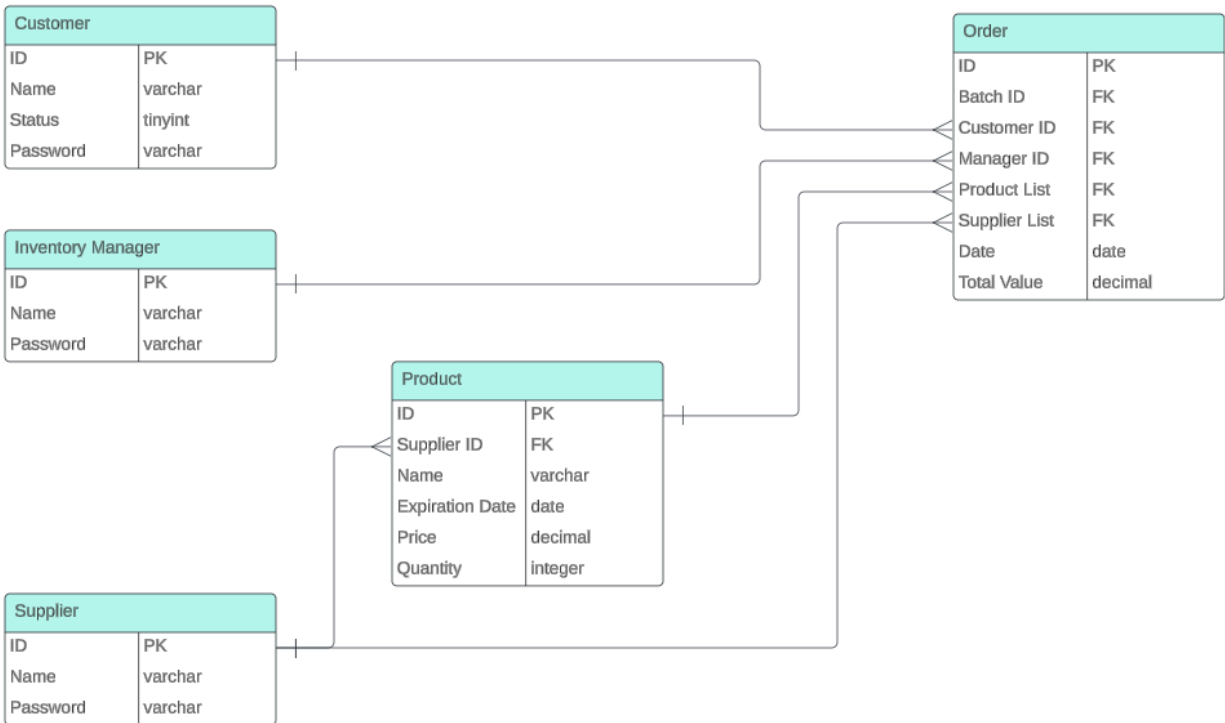
Figure 3: Entity Relationship Diagram
  This diagram shows the relationship between all tables in the database of our Inventory Management System.

Features
1. Dashboard
  1.1 Sales Revenue
  1.2 Customer Count Report
  1.3 Stock Report
  1.4 Total Purchase Order Created per Day
  1.5 Transactions History
  1.6 Batch Expiry Alert
2. Purchase
  2.1 Create Purchase Order
  2.2 View Purchase History
3. Inventory
  3.1 Stock Count (Low Stock Alert)
  3.2 Batch Tracking (Production Date, Expiration Date, Bath ID/Number)
  3.3 Add/Edit/Delete Product
4. Supplier
  4.1 Manage Supplier