

# Group 2

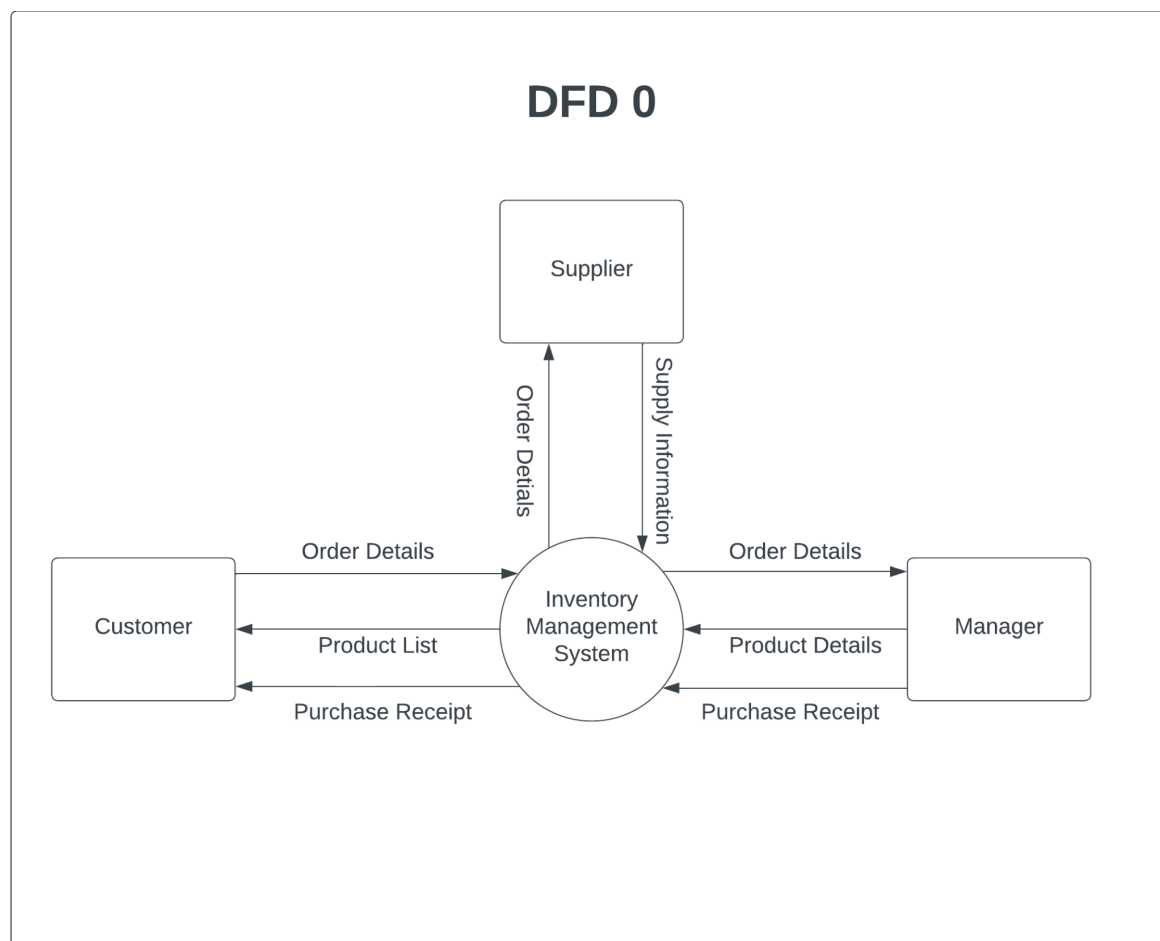
## Project Proposal - Inventory Management System

- *An inventory management system (IMS) is a software system that businesses use to track and control their stock levels. It helps businesses optimize their inventory by ensuring they have enough stock to meet customer demand without holding too much excess inventory. This can save businesses money on storage costs and reduce the risk of stockouts.*

### Data Flow Diagram

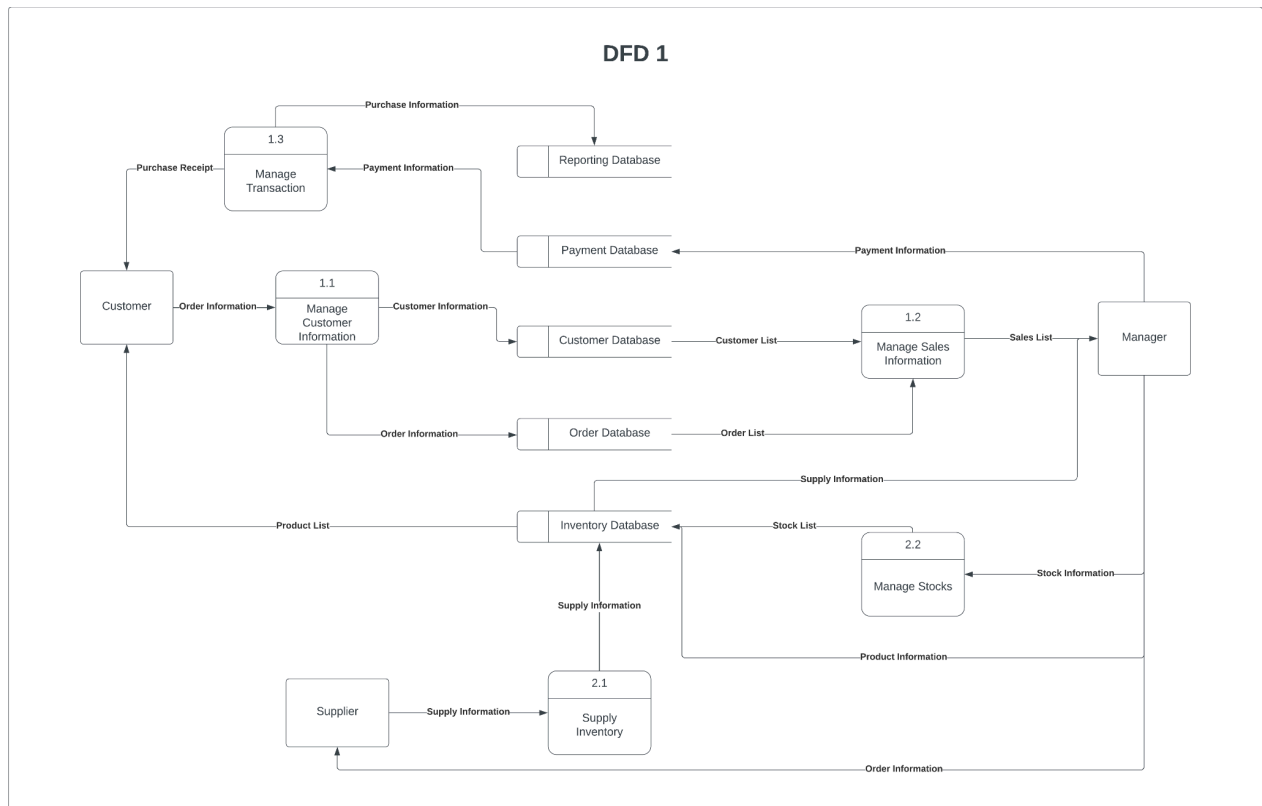
#### Level 0

- *Here is the DFD (0) for the proposed system which is the Inventory Management System.*



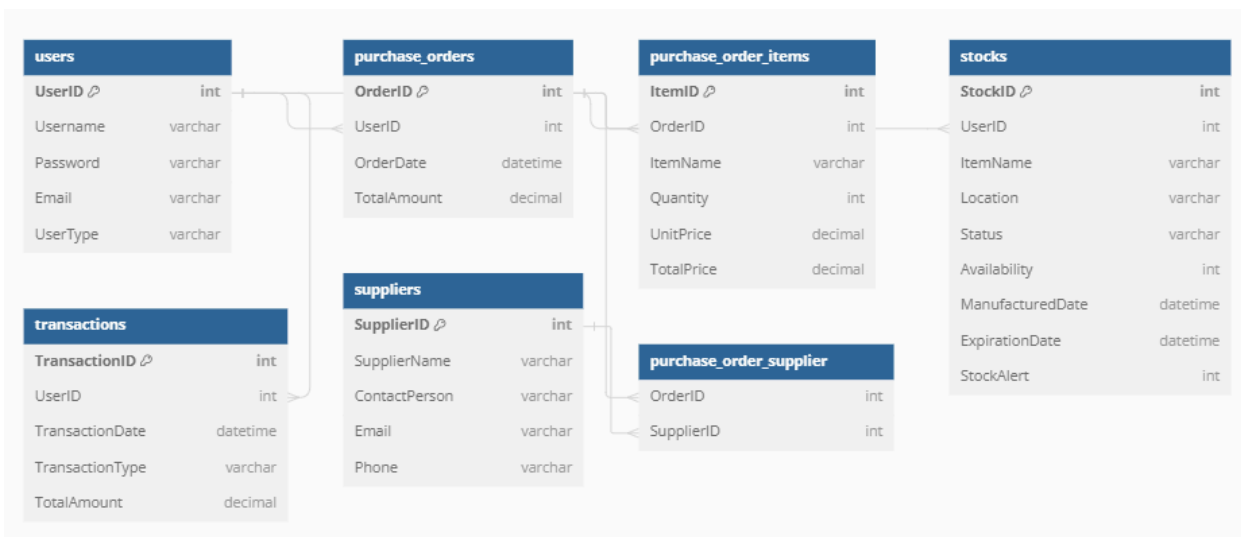
## Level 1

- Here is the DFD (1) for the proposed system which is the Inventory Management System.



## Entity Relation Diagram

- Here is the ERD for the proposed system which is the Inventory Management System.



## Features

The following are the key features of the proposed system.

1. **LOG-IN:** Users of the inventory system should be able to create their own account.
2. **REGISTER:** Users should be able to register if they don't have an existing account in the database.
3. **DASHBOARD:**
  - 3.1 Sales Revenue - total amount of sales generated.
  - 3.2 Total Customer Report - total count of customers.
  - 3.3 Stock Value - total value of stocks registered in the inventory.
  - 3.4 Daily Purchase Order Value - total value of registered purchase order per day.
  - 3.5 Transaction History - shows all the transactions created in the inventory.
  - 3.6 Batch Expiry Alerts - alert notification about expired batches in the inventory.
4. **PURCHASE:**
  - 4.1 Purchase Order - creation of purchase order.
  - 4.2 View Purchase Order - show the details of the created order.
  - 4.3 Purchase Order History - shows all the created purchase order transactions
5. **INVENTORY:**
  - 5.1 Stock Details - overview of all registered stock ID, name, location, status, availability, manufactured date, expiration date, stock alerts.
  - 5.2 Stock Management - includes adding/editing/deleting stock.
6. **REPORTS & TRENDS:**
  - 6.1 Advance Sales Report - shows visualize sales report that include highest stock purchase, average sales per day, lowest stock purchase, etc.
7. **SUPPLIER:**
  - 7.1 Manage Supplier - create shipment orders.
8. **LOG-OUT:** Users should be able to log-out their account after they finish managing the system.