Current ERD/DFD

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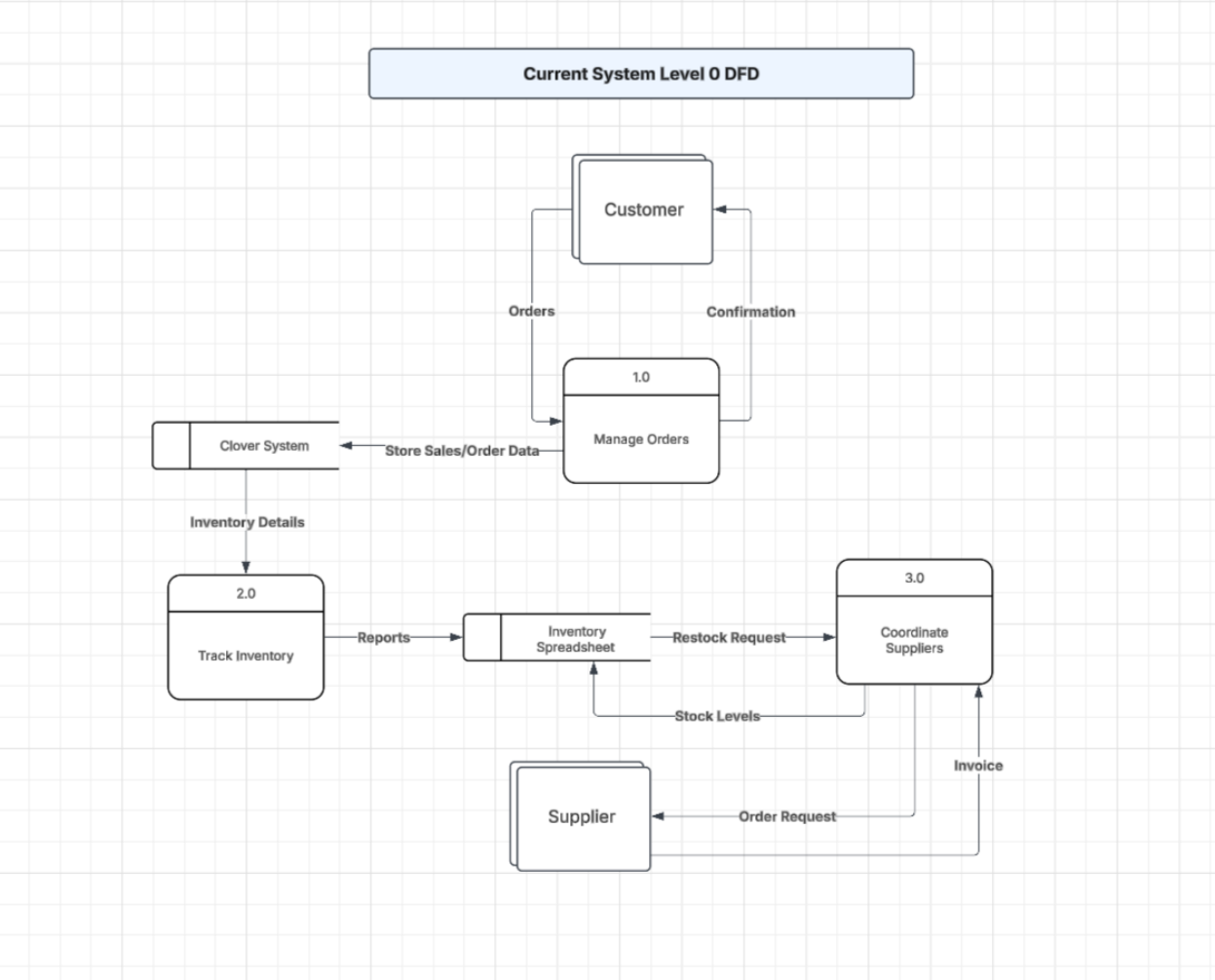
Level 0 DFD:



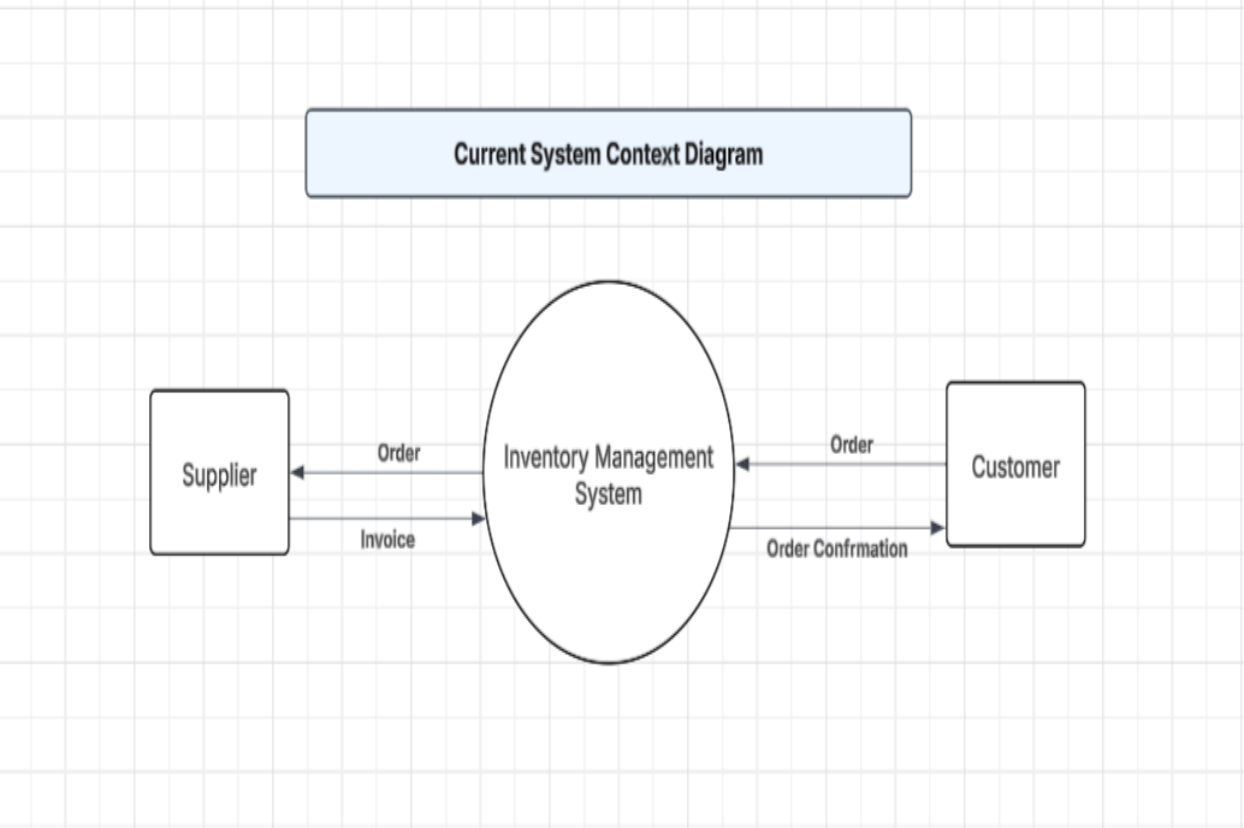
Description:

Process 1.0 shows how customer orders are managed. When a customer places an order, the system captures it and sends a confirmation back to the customer. At the same time, the order details are sent to the Clover System, where sales and order data are stored for tracking. This process ensures orders are properly logged and confirmed.

Process 2.0 focuses on tracking inventory. The Clover System provides inventory details, which are used to monitor current stock. This information is compiled into an inventory spreadsheet, where reports are generated to help assess product levels and identify what needs to be restocked.

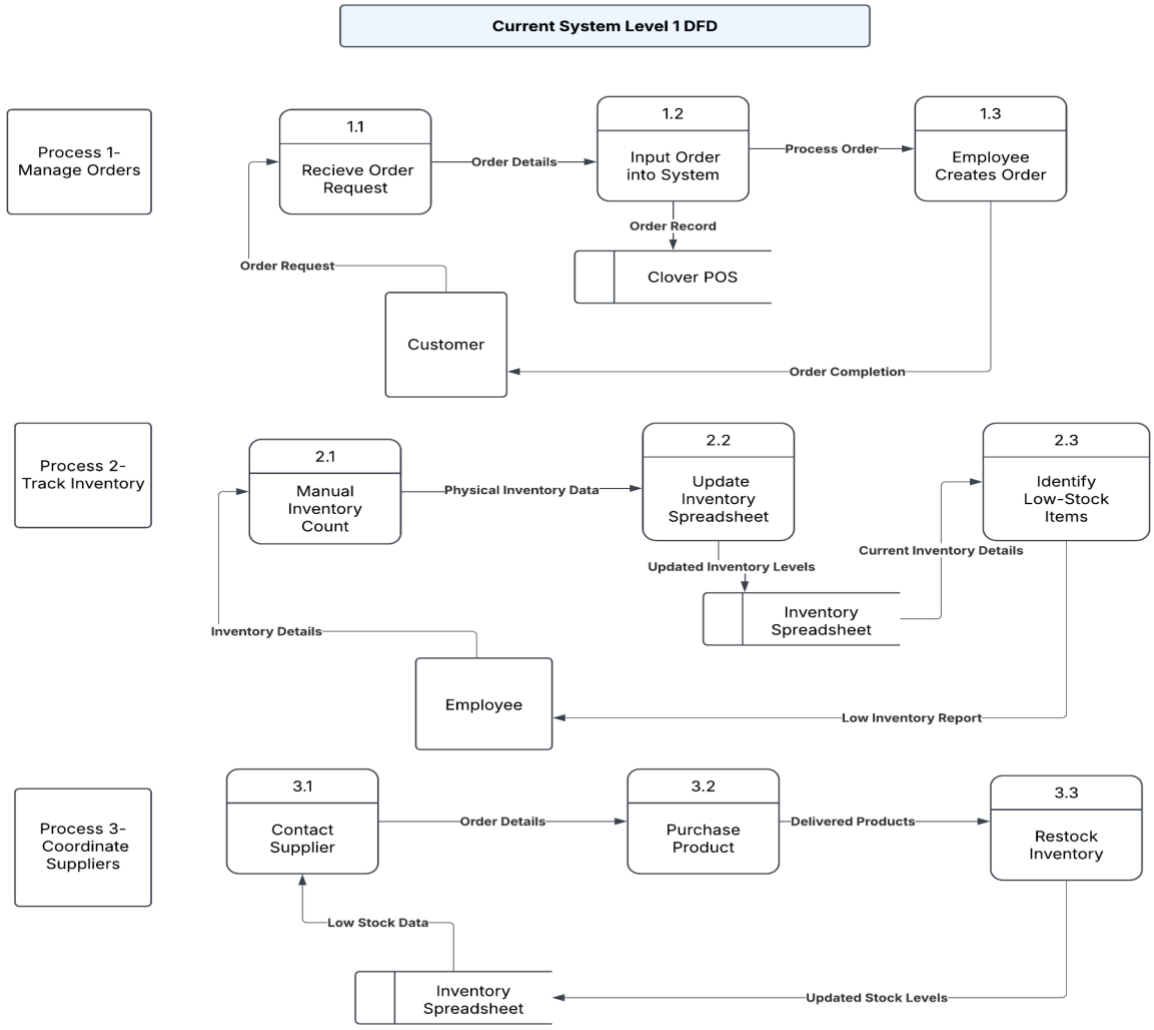
Process 3.0 describes how suppliers are coordinated. Based on stock levels in the inventory spreadsheet, a restock request is created and sent to the coordinating system. From there, an order request is sent to the supplier. Once the supplier processes the request, they send an invoice and updated stock, which helps maintain proper inventory levels.

Context Diagram:



Description:
The Customer places an order, which is received by the system. Once processed, an order confirmation is sent back to the customer to confirm receipt and status. The Supplier is also connected to the system. When stock needs to be replenished, an order is sent to the supplier. In return, the supplier sends back an invoice to finalize the transaction and confirm shipment of goods.

Level 1 DFD:



Description:

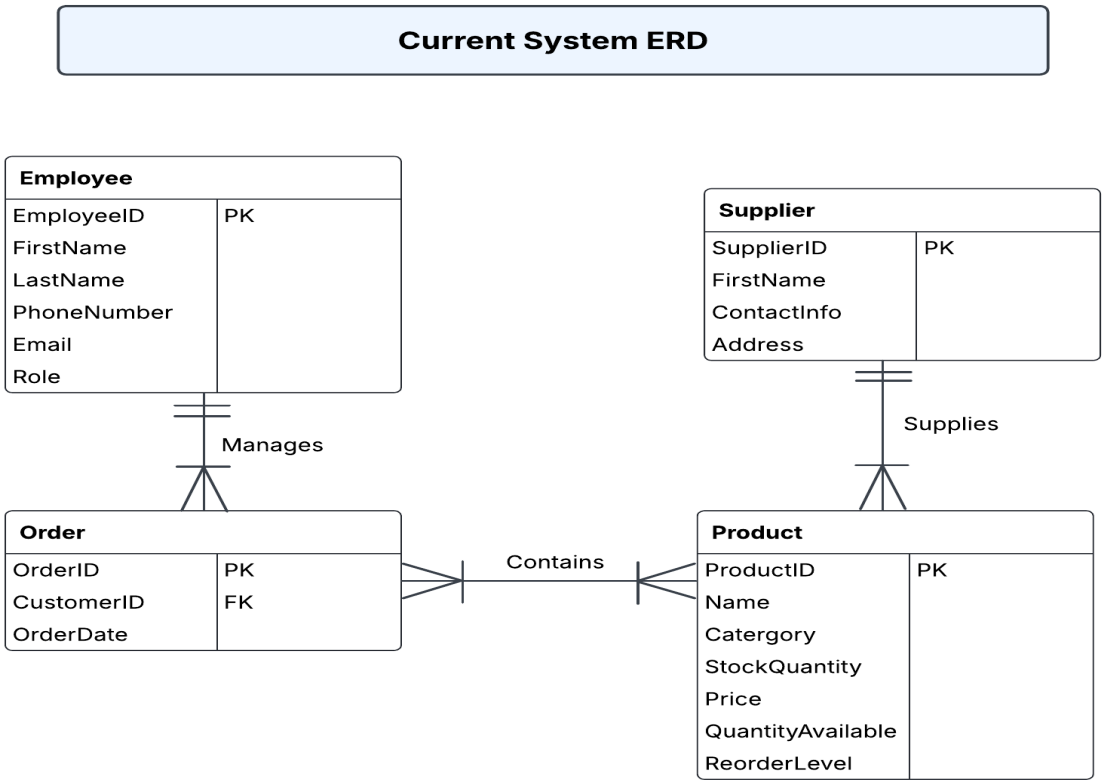
Process 1.0 is showing the actions that reduce the inventory. When an order request is received (1.1) an employee must confirm and input the order into Clover POS (1.2). The Clover POS then confirms the order and records the purchase. Once the order has been logged in the POS, an employee begins creating the order for the customer (1.3). After this the order is complete and goes back to the customer.

Process 2.0 shows the process in which inventory is tracked. During Inventory count days, employees manually count all the products (2.1). In the digital inventory spreadsheet the product quantities are updated (2.2). Once the spreadsheet is updated, the employee identifies what needs restocking (2.3) and begins into process 3.

Process 3.0 describes the process in which the employee coordinates the suppliers for inventory restocking. According to the updated inventory spreadsheet, the employee determines the products needed for reordering and contacts the desired supplier (3.1). Once the employee has

determined the product and supplier they purchase the product (3.2). After the product arrives at the store the employee restocks what is needed (3.3) And that completes inventory management.

ERD:



Description:

The Entity-Relationship Diagram (ERD) illustrates Mocha Point's current inventory system. It includes four main entities: Employee, Order, Product, and Supplier. The foreign key (FK) specifies the link to another table via an attribute of the customer. Employees are responsible for managing orders, and each order is associated with one or more products. Products contain essential inventory details such as stock quantity, price, and reorder level. Suppliers provide the products, and their contact information is stored. Although customer information is referenced through a CustomerID in the Order entity, it is not fully detailed in this model. The relationships in the system show the working inventory management system of Mocha Point.