**Database Management Project**

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A Written proposal document: Grocery store Inventory Management

# Deliverable 0: Project Proposal (Initial Setup)

Purpose:The inventory system is used for will autogenerate grocery store’s daily operations like stock the products in the store and sales tracking. And also, the data like customer’s data and employees data. With real-time tracking of every product in the grocery store and reliable stock levels available at all times, because of to the inventory system. After each transaction, it automatically modifies the stock count to make sure that the recorded inventory and the physical stock match.

## Key functionalities:

The grocery store inventory system is designed to automate and streamline operational processes. Key functionalities include real-time inventory management, sales and transaction management, customer relationship management, employee management, automated reporting, product management, supplier and purchase order management, security and access control, and scalability.

Real-time inventory management includes stock level tracking, low stock alerts, product categorization, supplier management, and inventory auditing. Sales and transaction management involves sales recording, sales analysis and reporting, and multiple payment methods. Customer relationship management (CRM) includes customer data tracking, loyalty program integration, and customer behavior analysis.

Employee management includes employee profiles, performance tracking, payroll support, shift management, and automated reporting. Product management includes a product information database, expiration alerts, and product pricing and discounts. Supplier and purchase order management involves tracking supplier contacts, order histories, and delivery schedules.

## Types of reports:

Stock report

Purchase report

Sales report

Cost of Goods Sold (COGS) Report

Financial report

## Entities/Database

1. Product
   1. ProductID (PrimaryKey)
   2. ProductName
   3. Description
   4. Price
   5. BarcodeNumber
   6. Category
   7. Stock
   8. ExpirationDate
2. Employee
   1. EmployeeID (PrimaryKey)
   2. EmployeeName
   3. JobTitle
   4. HireDate
   5. Salary
   6. ContactInformation
3. Customer
   1. CustomerID (PrimaryKey)
   2. CustomerName
   3. ContactInformation
   4. PurchaseHistory
4. Supplier
   1. SupplierID (PrimaryKey)
   2. SupplierName
   3. PhoneNumber
   4. Email
5. Purchase
   1. PurchaseID (PrimaryKey)
   2. PurchaseDate
   3. TotalAmount
   4. PaymentMode
6. OnlineOrder
   1. OrderID (PrimaryKey)
   2. OrderDate
   3. OrderStatus
   4. ShippingAddress
   5. TotalAmount
   6. CustomerID (ForeignKey)
   7. ProductID (ForeignKey)
7. OfflineSale
   1. SaleID (PrimaryKey)
   2. SaleDate
   3. TotalAmount
   4. CustomerID (Foreign Key)
   5. ProductID (ForeignKey)

## A screenshot of a computer Description automatically generatedEntity-relationship (ER) diagram