

# **Small Business Inventory and Sales Management System**

## **Group 9:**

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## **Problem Background:**

Small shops often manage inventory and sales with spreadsheets or notes, which leads to stockouts or overstock, inconsistent pricing, and weak traceability. This project proposes a lightweight Sales & Business System to centralize products, categories, customers, and sales in a simple relational database.

## **System Objectives:**

1. Centralize products, categories, customers, and sales in one system.
2. Record sales with line items and automatic total calculation.
3. Keep inventory straightforward using a per-product stock count that decreases on each sale.
4. Provide basic insights: daily sales summary, top products, and low-stock alerts.
5. Ensure simple, reliable data entry with clear validation.

## **System Users:**

1. Operator: manages products and customers, records sales, and views reports.

## **System Scope and Features:**

1. Product Management: add/edit/deactivate products (name, SKU, price, quantity/stock, category).
2. Category Management: create/rename categories; filter/search products by category/SKU/name.
3. Customer Management: add/edit basic customer info (name, phone); allow walk-in sales without selecting a customer.
4. Sales Management: record each transaction with line items and auto totals; on confirm, automatically deduct sold quantities and block negative stock.
5. Inventory Tracking: show current stock and flag low inventory levels per product threshold.
6. Reporting: daily sales summary (revenue and invoice count), top products by quantity (date range), and low-stock list.

## **Expected Outcome:**

A working, easy-to-use Sales & Business System that lets staff maintain products/customers, record sales in under a minute, and see clear summaries of performance and stock. Stock levels always reflect sales accurately (never negative), daily sales and top products reports are correct, and low-stock items are clearly flagged.