

Case Study: Digital Inventory & Order Management for Rainbow Stationery

Background

Rainbow's stationery store faced issues with manual stock tracking, price mismanagement, and slow order processing. To streamline operations, a **Stationery Management System (SMS)** was developed using **Python and MySQL**.

Solution

The system consists of:

- **Admin Module:** Add, update, view, and delete stationery items.
- **User Module:** Browse products, place orders, and generate bills automatically.

Use Case Scenarios

1. **Admin Management:** The store manager adds products, updates stock, and removes outdated items.
2. **Order Process:** A student selects notebooks and pens, the system calculates the bill, and stock updates automatically.

Impact

The SMS improves efficiency, reduces manual errors, and speeds up order processing. Future enhancements could include **barcode scanning, restocking alerts, and sales analytics** for better management.