

POS System Documentation

1. Project Overview

The Point of Sale (POS) system is designed to streamline retail operations by managing sales, inventory, products, stock, and financial reporting. It supports multiple payment methods, automatic reconciliation, and report generation in PDF and Excel formats. The system is secure, user-friendly, and mobile-friendly.

2. Features

2.1 Sales Management

- Record sales with product details, quantities, and prices.
- Automatically calculate VAT, discounts, and total amounts.
- Print receipts using a thermal printer.
- Edit or delete sales while archiving deleted records for audit.

2.2 Inventory & Products

- Manage product catalog with categories, SKU, barcode, prices, VAT, quantity, and minimum stock levels.
- Highlight low stock with visual alerts (Critical, Low, OK) using Font Awesome icons.
- Add, edit, delete products and categories.
- Export product reports to PDF and Excel.

2.3 Reports

- Daily, weekly, and monthly sales reports.
- Inventory and stock valuation reports.
- Low stock report with color-coded alerts.
- Reconciliation reports by payment methods.
- Export all reports in PDF and Excel formats.

2.4 Financial Management

- Reconcile cash, mobile money, and card payments with bank deposits.
- Automated reconciliation for fast and accurate reporting.
- Generate finance reports for management review.

2.5 User Authentication

- Secure login system with session management.
- Role-based access control (Admin, Staff, Cashier).
- Password verification and secure session handling.

2.6 User Interface & Experience

- Responsive, modern, and mobile-friendly design.
- Awesome icons for better visual cues.
- Interactive tabs for easy navigation across reports.
- Filter data by date, product, or category.

3. Security Measures

- Password hashing and session management.
- Role-based access control.

4. Usage Instructions

1. Log in using valid credentials.
2. Add products and categories under Settings.
3. Record sales in Sales POS.
4. Generate reports via the Reports tab.
5. Reconcile payments in Reconciliation.
6. Export reports as PDF or Excel as needed.