

Omnichannel Retail & Supermarket ERP

Admyon Systems

Building Smarter Business Solutions



Project Overview

The Omnichannel Retail & Supermarket ERP is a modern, unified operational hub designed for high-volume convenience stores and supermarkets. It seamlessly integrates physical store operations—like barcode generation and supplier invoice tracking—with digital revenue streams from third-party delivery platforms (e.g., GrabMart, Food Panda) into a single accounting ecosystem.

Business Problem

Modern supermarkets operate simultaneously across physical checkouts and multiple online delivery apps. Tracking fragmented revenue across Cash, Credit Cards, and various E-commerce platforms creates massive accounting discrepancies. Furthermore, managing hundreds of FMCG products requires constant price tag updates and strict tracking of supplier invoices to avoid late payment penalties and stockouts.

Our Solution

Admyon Systems developed a comprehensive Retail ERP that consolidates all omnichannel sales data into one financial dashboard. The system empowers store managers to automatically generate and print product barcodes directly from the master catalog. By integrating Purchase Orders (POs) with a dedicated Supplier Invoice Tracking module, the application ensures that both inbound inventory and outbound payments are strictly managed.

Key Features

- Omnichannel Accounts Dashboard (Tracking GrabMart, Food Panda, Shopee, TikTok, etc.)
- Automated Barcode & Price Tag Generator (Exportable to Excel/Print)
- Supplier Invoice & Accounts Payable Tracking
- Master Product Catalog Management
- HR & Staff Miscellaneous Payments Log
- Centralized Hub for Purchase Orders & Sales Invoices

Technologies Used

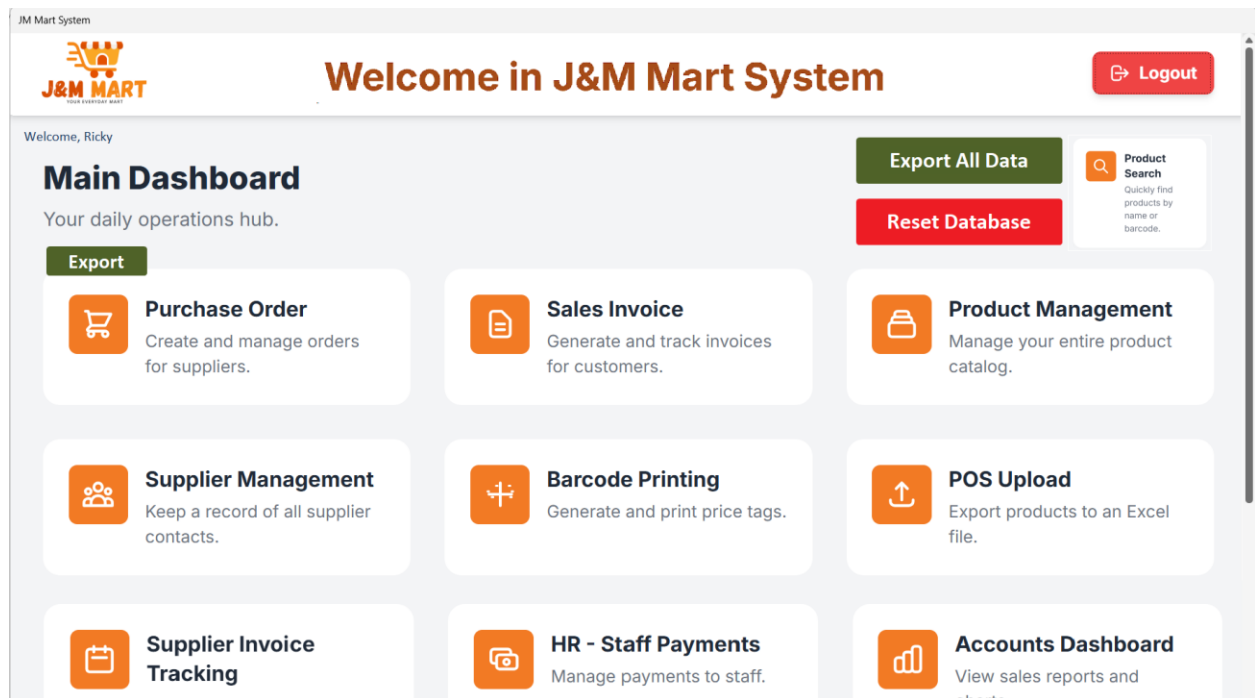
Technology	Used
Microsoft Access	
VBA (Visual Basic for Applications)	
SQL	

System Modules

- Main Operations Dashboard
- Accounts & Sales Performance Dashboard
- Barcode & Price Tag Printing
- Supplier Invoice Tracking
- Product Management Catalog
- Purchase Orders & Sales Invoices
- HR Staff Payments
- Supplier & Customer CRM

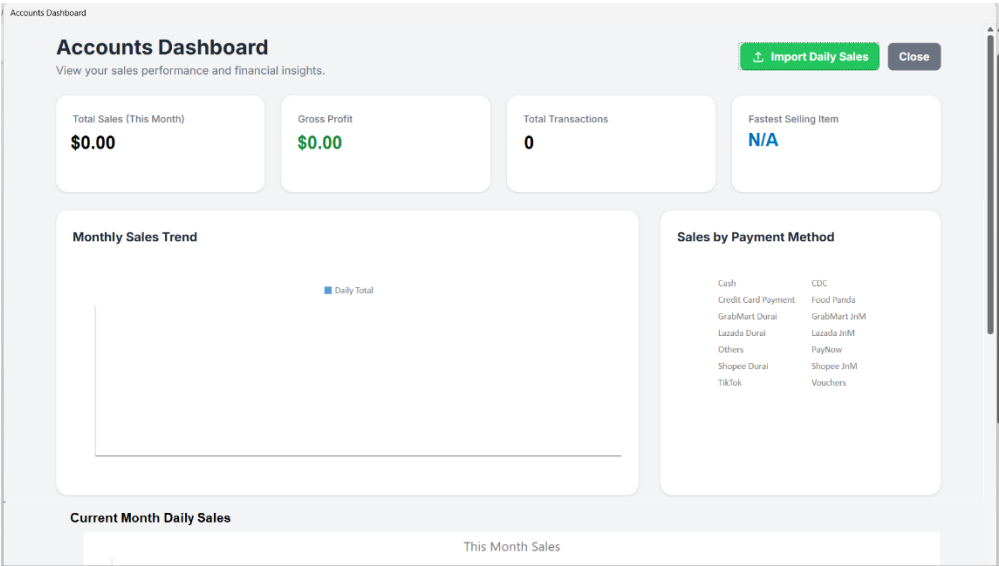
Screenshots

Main Operations Hub



A clean, modern, SaaS-style navigation dashboard providing store managers with instant access to core daily operations, including a global product search and database reset utilities.

Omnichannel Accounts Dashboard



A financial analytics screen detailing monthly sales trends, gross profit, and a critical breakdown of sales by payment method (e.g., Cash, PayNow, GrabMart, Lazada) for precise revenue reconciliation.

Barcode & Price Tag Printing

The Barcode & Price Tag Printing Form allows users to select products to generate printable labels or export to Excel. It features a search bar, a list of products with checkboxes, and buttons for 'Search', 'Clear', 'Close', 'Export to Excel', and 'Generate Labels'.

PRODUCT NAME	BARCODE	PRICE
☐ Paras Ajwain Seed 100g	8906176721003	\$1.39
☐ Paras Almonds 500g	8906176720846	\$7.71
☐ Paras Badam Gondu 100g	8906176720822	\$1.84
☐ Paras Bay Leaves 25g	8906176722109	\$0.82
☐ Paras Black Raisins 100g	8906176723168	\$1.80
☐ Paras Bombay Toor Dal (Agar) 1kg	8906176720006	\$4.61
☐ Paras Bombay Toor Dal (Agar) 500g	8906176720013	\$2.69

An essential retail module that pulls directly from the product catalog, allowing staff to bulk-select items (e.g., spices, FMCG goods) and instantly generate printable barcode labels.

Supplier Invoice Tracking

Supplier Invoices List

Supplier Invoice Tracking

Search, add, edit, or delete supplier invoices.

SUPPLIER	INVOICE #	AMOUNT	DUE DATE	STATUS	ACTIONS
Sathiya Minimart	C025976	\$60.30	8/13/2025	Paid	Edit Delete
Sunshine Bakeries	3563003015	(\$7.31)	7/21/2025	Paid	Edit Delete
Sunshine Bakeries	3563003101	\$29.88	8/8/2025	Paid	Edit Delete
Sunshine Bakeries	3563003056	\$1.70	7/30/2025	Paid	Edit Delete
Sunshine Bakeries	3563003092	\$0.65	8/6/2025	Paid	Edit Delete
Sunshine Bakeries	3563003158	\$18.86	8/20/2025	Paid	Edit Delete

An Accounts Payable interface dedicated to logging inbound supplier invoices, tracking exact due dates, invoice numbers, and payment statuses to maintain healthy vendor relationships.

Master Product Catalog

Products Management Form

Product Management

Search, view, add, edit, or delete products from your master catalog.

PRODUCT NAME	CATEGORY	SELLING PRICE	ACTIONS
Medmix Soap Classic Sandal 125g	OTHERS	\$1.61	Edit Delete
Parachute Cocount Oil 500ml	OTHERS	\$5.21	Edit Delete
Everest Chicken Powder 100gm	OTHERS	\$1.96	Edit Delete
Knorr Soup Powder Classic Hot & Sour Veg	OTHERS	\$1.66	Edit Delete
Meera Shampoo Anti Dandruff 180ml	OTHERS	\$3.90	Edit Delete
Meera Shampoo Hair Fall Care 80ml	OTHERS	\$1.99	Edit Delete
Meera Shampoo Anti Dandruff 80ml	OTHERS	\$2.04	Edit Delete

The central database for all supermarket SKUs, managing item categories, selling prices, and acting as the foundational data source for both POS uploads and purchase orders.

HR & Staff Payments

HR Payments Form

HR - Staff Misc. Payments

Manage miscellaneous payments and vouchers for staff.

Export

SearchClear

STAFF NAME	PAYMENT DATE	AMOUNT	REASON	ACTIONS
SakShi	9/15/2025	\$280.00	Salary	EditDelete

Close

+ Add New Payment

A focused administrative tool to track miscellaneous staff payouts, petty cash, or salary advances, keeping internal store expenses separate from external supplier costs.

Business Benefits

- ✓ Reconciled fragmented revenue by consolidating physical and online delivery platform sales
- ✓ Eliminated manual pricing errors through an automated barcode and label generator
- ✓ Streamlined Accounts Payable by accurately tracking supplier invoices and due dates
- ✓ Improved store administration with a centralized hub for all HR and procurement activities
- ✓ Enabled rapid decision-making through a clean, modern, and highly intuitive user interface

Project Highlights

- Omnichannel E-Commerce Integration
- Modern, Minimalist UI Design
- Built-in Barcode Generator
- Accounts Payable Workflows
- Southeast Asia Regional Localization

Future Enhancements

Future versions of this system may include:

- Direct API integration with delivery platforms (Food Panda, Grab) to auto-pull daily sales data
- Automated sync with cloud accounting software (e.g., Xero, QuickBooks) for tax filing
- Mobile inventory scanner integration for rapid physical stocktaking
- Automated low-stock purchasing algorithms based on historical sales velocity

Project Summary

The Omnichannel Retail & Supermarket ERP highlights Admyon Systems' ability to modernize traditional retail operations. By bridging the gap between physical storefront logistics and digital delivery revenue, the platform equips supermarkets with the exact tools they need to scale efficiently in a multi-channel retail environment.