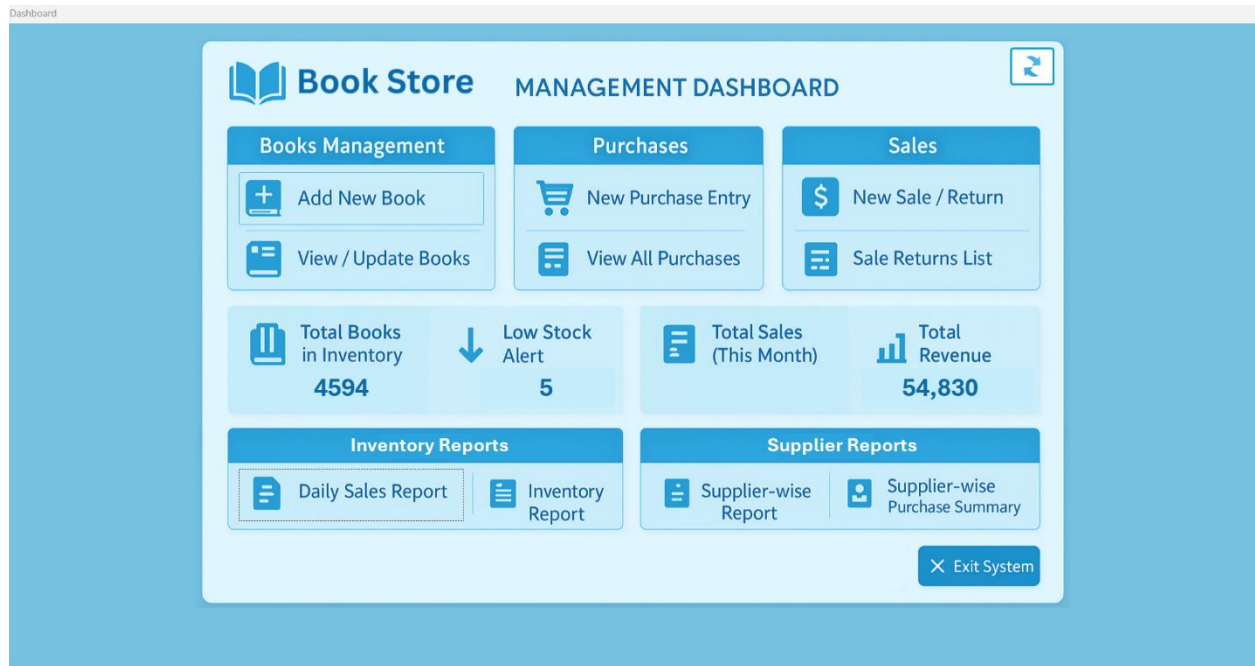


Retail POS & Inventory Management System

Admyon Systems

Building Smarter Business Solutions



Project Overview

The Retail POS & Inventory Management System is a comprehensive desktop application built for retail businesses, specifically tailored here for a bookstore environment. It functions as a complete operational backend, seamlessly connecting point-of-sale (POS) transactions, purchase orders, supplier management, and real-time inventory tracking into one unified platform.

Business Problem

Retail store owners frequently struggle with inventory shrinkage and manual stock reconciliations. When sales, returns, and supplier purchases are tracked across different spreadsheets or paper ledgers, it becomes impossible to know the exact real-time stock levels. This results in selling out-of-stock items, missing reorder deadlines, and losing track of supplier payables and sales returns.

Our Solution

Admyon Systems developed a centralized POS and inventory tracker that automates stock mathematics. Every time a sale is made or a return is processed, the system instantly updates the master inventory. With automated "Low Stock Alerts" and dedicated supplier purchase logs, store managers gain complete control over their supply chain, ensuring they never run out of critical products while maintaining accurate revenue reports.

Key Features

- Retail Management Dashboard (Total Sales, Revenue, Active Inventory)
- Automated Low Stock Alerts
- Point of Sale (POS) Entry & Returns Processing
- Supplier-wise Purchase Tracking
- Color-Coded Inventory Grid (Visual Stock Health)
- Daily Sales & Inventory Reporting

Technologies Used

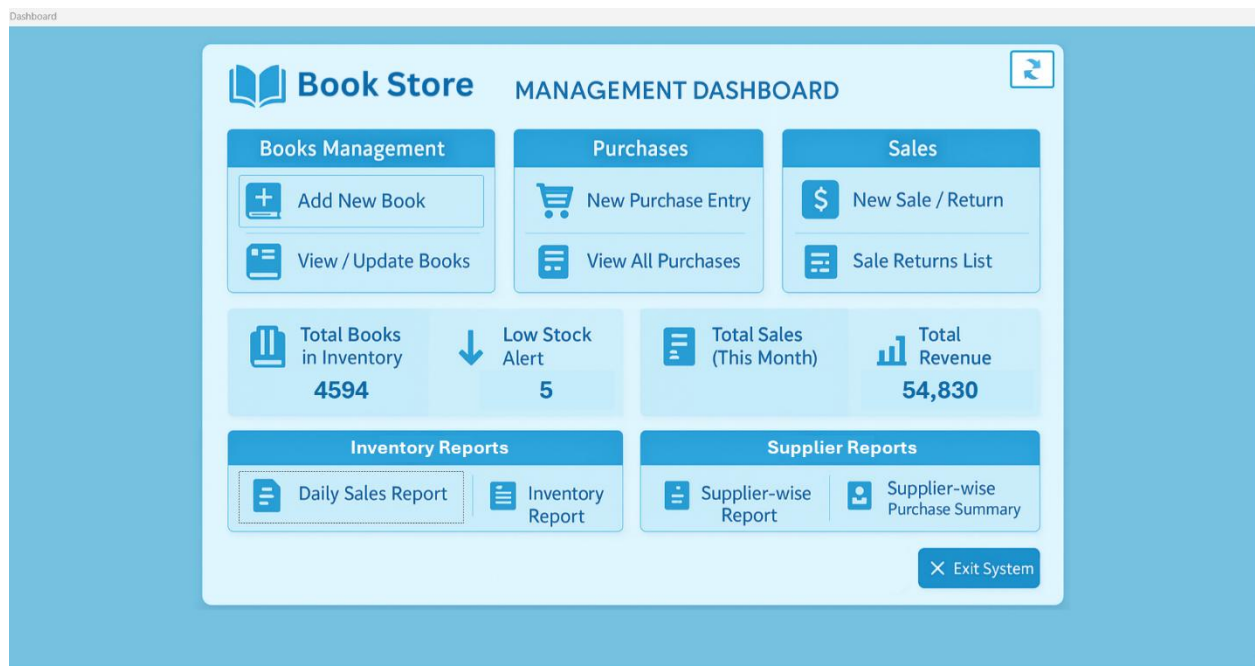
Technology	Used
Microsoft Access	
VBA (Visual Basic for Applications)	
SQL	

System Modules

- Books (Product) Management
- Purchases (Inbound Stock)
- Sales & Returns (Outbound Transactions)
- Inventory Reports
- Supplier Reports

Screenshots

Management Dashboard



A clean, centralized control panel providing store managers with instant KPIs, including total monthly revenue, total inventory count, and automated low-stock warnings.

Books Entry Form

Books Entry Form



Book Entry Form



Book ID:

Title:

Author:

Category:

▼

ISBN:

Publisher:

Price:

Stock Quantity:

Save

A structured data entry interface for adding new products to the Book, capturing essential details like ISBN, Publisher, Category, and initial pricing.

View / Update Inventory Grid

Books List



View / Update Books

Book ID	Title	Author	Category	ISBN	Publisher	Price	Stock
1	Zard Mausam	Umera Ahmed	Science	978-0-650-43299-4	Sang-e-Meel Publicat	887.49	59
2	The Kite Runner	J.K. Rowling	Biography	978-0-544-52006-6	Paramount Books	1193.2	48
3	La Hasil	J.K. Rowling	Educational	978-1-362-81305-7	Ilmi Kitab Khana	1005.09	5
4	The Struggle for Pakistan	Qudrat Ullah Shahab	Non-Fiction	978-0-473-79462-0	Sang-e-Meel Publicat	979.26	98
5	Shahab Nama	Umera Ahmed	History	978-1-5120-5907-6	Sang-e-Meel Publicat	820.45	30
6	Nuskha Haye Wafa	Qudrat Ullah Shahab	Islamic	978-0-7031-5759-1	Ilmi Kitab Khana	1028.06	84
7	The Two Towers	Ashfaq Ahmed	Children	978-1-62472-635-4	Pak Book Corporatio	737.95	4
8	The Return of the King	Mustansar Hussain Tarar	History	978-0-311-31583-3	Liberty Books	1174.6	96
9	Mirat-ul-Uroos	Wasif Ali Wasif	Non-Fiction	978-0-694-64443-8	Liberty Books	311.56	10
10	Thanda Gosht	Mustansar Hussain Tarar	History	978-1-265-54399-0	Ferozsons	1345.13	2
11	Jalebiyan	Dr. Israr Ahmed	Science	978-0-9562926-8-1	Ilmi Kitab Khana	1147.98	11
12	The White Tiger	J.K. Rowling	Children	978-1-4985-8361-9	JBD Press	1089.45	97

A comprehensive master inventory list featuring color-coded stock levels (Green for healthy, Red for critical), allowing staff to identify reorder needs at a glance.

Sales Entry (POS) Interface

Sales Entry Form

Sale / Return ID (New)
Sale Date 8/3/2026

Books List

Book Name	Qty	Price	Total	Book Name	Author	Category
				The Argumentative Indian	Mustansar Hussain Tarar	Fiction
				The Reluctant Fundamentalist	Stephen Hawking	Fiction
				A Brief History of Time	J.K. Rowling	Fiction
				Mushaf	Umera Ahmed	Fiction
				Harry Potter and the Sorcerer's Stone	Dr. Israr Ahmed	Fiction
				The Struggle for Pakistan	Qudrat Ullah Shahab	Non-Fiction
				Mirat-ul-Uroos	Wasif Ali Wasif	Non-Fiction
				Pakistan: A Hard Country	Bano Qudsia	Non-Fiction
				Zarb-e-Kalim	Bano Qudsia	Non-Fiction
				Ghulam Bagh	Umera Ahmed	Non-Fiction
				Dastak Na Do	Umera Ahmed	Non-Fiction
				Kartarpur Corridor	Dr. Israr Ahmed	Non-Fiction
				My Feudal Lord	Mustansar Hussain Tarar	Religious
				The Battle for Pakistan	Wasif Ali Wasif	Religious
				Sehar Honay Tak	Mustansar Hussain Tarar	Religious
				The Discovery of India	Stephen Hawking	Religious

Print
Total:-

Add New

A functional point-of-sale screen designed for quick checkout, dynamically pulling product prices and instantly deducting sold quantities from the main inventory.

Purchases & Supplier Logs

Books Purchase List							
Purchase ID	Purchase Date	Supplier	Book	Qty	UnitPrice	Total Amount	
1	2/14/2017	Bazm-e-Kutub	Toba Tek Singh	48	1081.27	51900.96	
2	3/4/2020	Pak Books & Sons	The Two Towers	5	638.38	3191.9	
3	2/18/2022	Lahore Readers	The Forty Rules of Love	11	1323.18	14554.98	
4	6/7/2013	Taleem Point	Between Mosque and Military	41	1181.89	48457.49	
5	5/5/2025	Rehmat Publishers	Shahab Nama	15	1330	19950	
6	2/23/2012	Bazm-e-Kutub	Peer-e-Kamil	42	1482.79	62277.18	
7	12/20/2022	Ilmi House	A Brief History of Time	12	946.47	11357.64	
8	2/16/2013	Rehmat Publishers	The Reluctant Fundamentalist	5	1028.5	5142.5	
9	5/27/2023	Taleem Point	Jinnah of Pakistan	24	1427.26	34254.24	
10	6/9/2012	Dar-ul-Ilm	Talash	33	1008.77	33289.41	
11	3/13/2018	Ilmi House	Aangan	30	672.88	20186.4	
12	8/14/2022	Rehmat Publishers	Dastak Na Do	19	507.64	9645.16	

A dedicated ledger tracking all inbound stock from suppliers, ensuring accurate recording of unit prices, purchase dates, and total capital spent on restocking.

Sales Return Processing

Books Return List						
SaleID	Title	Category	Unit Price	Total Amount	Sale/Return	
1	The Kite Runner	Biography	799	1598	Return	
8	The Forty Rules of Love	Children	1405.87	2811.74	Return	
70	The Struggle for Pakistan	Non-Fiction	991.4	991.4	Return	
94	Bano	Islamic	840.89	2522.67	Return	
17	Sehar Honay Tak	Religious	1468.41	4405.23	Return	
41	Exit West	Islamic	1112.96	1112.96	Return	
87	The Alchemist	Religious	420.95	841.9	Return	
73	The Return of the King	History	313.29	939.87	Return	
32	Talash	Biography	968.09	968.09	Return	
89	Bang-e-Dra	Biography	1217.41	1217.41	Return	
35	Snuffing Out the Moon	Biography	1320.18	3960.54	Return	
92	Sehar Honay Tak	Religious	1468.41	2936.82	Return	

A dedicated module to handle customer refunds and returns, ensuring returned items are accurately restocked and financial totals are properly reconciled.

Business Benefits

- ✓ Eliminated stockouts via automated low-stock alerts
- ✓ Reduced manual accounting errors by linking POS directly to inventory
- ✓ Streamlined supplier management and inbound purchase tracking
- ✓ Accelerated the checkout and return process for end customers
- ✓ Provided clear visibility into daily sales and revenue metrics

Project Highlights

- Real-Time Stock Deductions
- Color-Coded Visual Alerts
- Dedicated Returns Workflow
- Supplier Tracking Integration
- Rapid POS Entry System

Future Enhancements

Future versions of this system may include:

- Hardware integration for Barcode Scanners and Thermal Receipt Printers
- E-commerce API synchronization (e.g., Shopify or WooCommerce) to sync online and physical stock
- Automated Purchase Order (PO) generation sent directly to suppliers via email
- Customer Loyalty Program tracking (Points/Discounts)

Project Summary

This Retail POS & Inventory Management System highlights Admyon Systems' ability to build reliable, high-speed operational software for the retail sector. By automating the complex mathematics between sales, returns, and supplier purchases, the application allows business owners to focus on growth rather than manual stock-taking.