

# STORE MANAGEMENT SYSTEM

Complete Billing & Inventory System for Retail Stores.

-- By Reshal Maryson --

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This PDF includes screenshots, feature breakdown, and tech overview.

## Project Overview

This **STORE MANAGEMENT SYSTEM** is a full-stack, point-of-sale (POS) and inventory management system designed specifically for grocery stores, marts, and small-to-medium retail businesses. It helps store owners efficiently manage daily operations such as product stock, billing, category organization, and admin control — all in one centralized web application.

The system is built using **Laravel (PHP)** for the backend, **React.js** for a smooth and dynamic frontend experience, and **MySQL** for structured data management. It features real-time billing, a responsive admin dashboard, detailed reporting tools, and role-based access control to ensure both usability and security.

## Target Consumers

- Grocery Stores & Mini-Marts
- Local Retail Shop Owners
- Admins handling product stock, sales, and invoices

## Key Benefits

- Fast & accurate billing with dynamic product search
- Easy stock monitoring and updates
- Clean dashboard with analytics and graphs
- Role-based user access (admin/cashier)
- Centralized control over products, sales, and report

## **Features Overview**

This store is built around two main user roles — Admin and Cashier — each with access to dedicated modules for managing store operations.

## **Cashier Role Features**

### **- Billing Page**

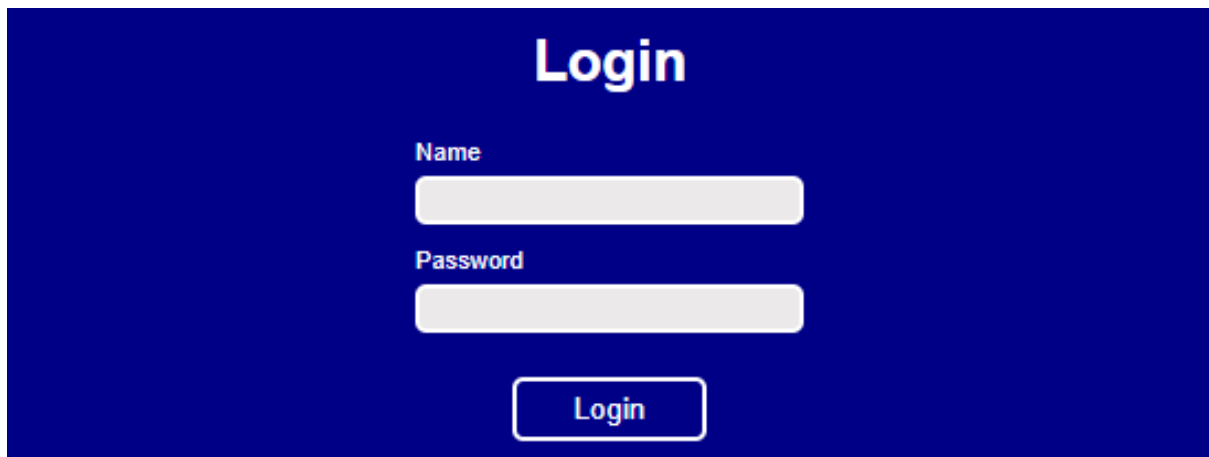
- Search products in real-time
- Add to cart & generate bill
- Print invoice
- Add new customer (*optional*)

## **Admin Role Features**

- **Admin Dashboard** ( See total revenue, stock, and quick insights ).
- **User Management** (Create, view, and manage cashier/admin users).
- **Product Management** (Add/edit/delete products , Manage categories and inventory).
- **Sales Overview** (View all sales with filtering options)
- **Analytic s** (Top performing products, Top performing cashiers,Top daily/monthly/yearly sales, Store performance summary, Activity logs [**user actions across system**] ) .

# Features Walkthrough (In-Depth)

## Login Page



The login page features a dark blue background. At the top center, the word "Login" is displayed in a large, white, sans-serif font. Below this, there are two white input fields. The first field is labeled "Name" in a small, white, sans-serif font. The second field is labeled "Password" in a small, white, sans-serif font. Below the password field is a white button with the word "Login" in a small, white, sans-serif font. The button has a thin white border.

The system begins with a secure login page that contains username and password fields. Once the user submits their credentials, the backend validates them and uses **Laravel Sanctum** to issue an **authentication token** for that user session. This token is stored and used for all future API requests during the session, enabling secure, token-based communication between the frontend and backend.

After successful login, the system checks the user's role:

- If the user is a **cashier**, they are redirected to the **billing page**
- If the user is an **admin**, they are redirected to the **admin dashboard**

This role-based redirection ensures each user sees only the relevant features they have permission for.

## Cashier Panel – Billing Page

The Billing Page is the primary interface used by cashiers to create and manage customer sales in real time. It is designed for speed, efficiency, and ease of use, mimicking the behavior of real POS systems used in grocery stores and marts.

## **Key Functionalities: (Billing Page)**

### **Product Search**

Cashiers can search for products either by **name** or **barcode**:

- *Search by name* is optimized with **indexing** to return relevant matches quickly, especially when multiple products share similar names.
- *Search by barcode* is a **direct exact-match query** that instantly fetches the specific product, improving speed and performance.

### **Add/Remove Products**

Selected products can be added to a dynamic **cart**, where cashiers can:

- Adjust quantities
- Remove items
- View updated pricing on the fly

### **Add Customer (Optional)**

Cashiers can attach a customer to the bill if needed — especially useful for loyalty programs or sales tracking.

### **Real-Time Bill Calculation**

The cart auto-calculates:

- **Subtotal**
- **Discount** (default 0%, but can be adjusted by cashier)
- **Total payable amount**

### **Bill Actions**

Cashiers have full control over bill handling:

- **Cancel** – clears the current cart
- **Create Only** – generates a bill without printing
- **Create & Print** – finalizes the bill and opens a **print-ready invoice in a new tab**

### **Printable Invoice**

After selecting "Create & Print", a **dedicated invoice view** is opened in a new browser tab, styled for print layout. This view includes all product details, store name, date/time, cashier ID, and totals — allowing the cashier to print the receipt instantly.

1

Store Name

Reshal Maryson

Thu Jul 10 2025 10:55 PM

New Bill

logout

Search Item

Name or Barcode

No Products found

INVOICE

Items (0)

Name	Price	Qty	Remove
------	-------	-----	--------

Add Items In Invoice

2

Store Name

Reshal Maryson

Thu Jul 10 2025 10:55 PM

New Bill

logout

Search Item

herbal

ID	Name	Barcode	Price
4	Colgate Herbal ToothPaste 250g Family Pack	12343	336
12	Herbal Tea 500g	44251	330
13	Herbal Tea 250g	22311	154
17	Herbal cheese	33322	550

INVOICE

Items (0)

Name	Price	Qty	Remove
------	-------	-----	--------

Add Items In Invoice

3

Store Name

Reshal Maryson

Thu Jul 10 2025 10:57 PM

New Bill

logout

Search Item

Name or Barcode

No Products found

INVOICE

Items (5)

Name	Price	Qty	Remove
Colgate Herbal ToothPaste 250g Family Pack	336	1	
Nestle 250ml Bottle	52	1	
Gold Leaf pack of 20	399	1	
Dove Soap Bar 200g	255	1	

Customer

Take Away

Customer #

SubTotal : 1196.00

Discount % : 0

Total : 1196

Cancel Bill

Create Bill

Create & Print

STORE NAME			
Contact # : 23462627161			
cashier	Reshal Maryson		
Bill ID	STR-13		
Date&time	Jul 10, 2025   11:11 PM		
Customer	Take Away		
Item	Qty	Rate	Amount
Colgate Herbal ToothPaste 250g Family Pack	1	336	336
Nestle 250ml Bottle	1	52	52
Gold Leaf pack of 20	1	399	399
Dove Soap Bar 200g	1	255	255
Herbal Tea 250g	1	154	154
Subtotal			1196
Discount			5%
Total			1137
Thank You For Shopping With Us!			

**Admin Dashboard**

The Admin Dashboard serves as the central control hub for managing all core modules of the store. Only users with the admin role are granted access to this panel after logging in. It provides one-click access to critical administrative tools such as **user creation, product management, sales tracking, and analytics**.

Store Name

Admin

Thu Jul 10 2025 11:23 PM

Admin Logout

Add User

Add Product

All Products

All Users

Sales

Analytics

# Key Components of Admin Panel

## Add User

Allows the admin to create new users and assign roles with proper validation.

Store Name

Admin

Thu Jul 10 2025 11:29 PM

Admin Logout

Add User

Add Product

All Products

All Users

Sales

Analytics

Name

Phone

Email

Address

City

Role

Password

Create

## Add Product

Opens a form to add new products into the system with category, stock, price, and barcode details.

Store Name

Admin

Thu Jul 10 2025 11:30 PM

Admin Logout

Add User

Add Product

All Products

All Users

Sales

Analytics

Name:

Supplier/Company:

Barcode:

Stock:

Category :

Purchase Price:

Add Product

All Products

The All Products page displays a complete list of all items available in the store, fetched through paginated API requests for better performance and scalability. Each row in the product list includes key details like name, category, price, stock, and barcode. Admins can choose to update or delete any product directly from the list, making it easy to manage inventory in real-time.

To help locate specific items quickly, the page includes a **search bar** that supports filtering by **product name**, **barcode**, and **price**. All search queries are sent to the backend for efficient lookup using indexed fields. Whether it's adjusting stock, correcting product details, or removing discontinued items, this section gives the admin full control over the product database.

Store Name

Admin

Thu Jul 10 2025 11:35 PM

Admin Logout

Add User

Add Product

All Products

All Users

Sales

Analytics

Products : 12

Name, Barcode, Price

Q

Name	Barcode	Category	Supplier	Stock	Purchase	Selling	Options
Herbal Tea 250g	22311	essential_goods	Frens Limited & Co	100	140	154	<div><div></div>Edit</div>
Herbal Tea 500g	44251	essential_goods	Frens Limited & Co	50	300	330	<div><div></div>Edit</div>
Saeed Ganni Face wash 120g	99922	personal_care	Saeed Ganni Herbals	150	200	269	<div><div></div>Edit</div>
Whole Wheate Bread Dwan 200g	99977	essential_goods	Dawn Diary Products	200	90	99	<div><div></div>Edit</div>
Colgate Herbal ToothPaste 250g Family Pack	12343	personal_care	GM Personal Care	200	250	336	<div><div></div>Edit</div>
Gold Leaf pack of 20	12333	tobacco_product	GM tabacoo	100	302	399	<div><div></div>Edit</div>

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All Users

The All Users page provides a full list of all registered users in the system, including **cashiers**, **admins** and **salesmans**. Each user entry displays key information such as name, role, and email. Admins have the ability to edit user details or delete users directly from the list, allowing for quick management of staff accounts and access control.

it includes a powerful search feature that **filters users by name or role**. This makes it easy to quickly locate specific users even as the list grows. Whether it's promoting a cashier to admin or removing inactive accounts, this page gives admins streamlined control over the user base.



[Admin Logout](#)

Add User

Add Product

All Products

All Users

Sales

Analytics

Users: (8)



Name	Email	Address	City	Phone#	Role	Options
ijaz Ahmed	ijaz123@fake.com		sirinagar	13433311124	salesperson	<a href="#">Edit</a>
admin	admin@fake.com		Admin City	33466317171	admin	<a href="#">Edit</a>
alam rizvi	alam@fake.com	alam's address	alam city	1245678911	salesman	<a href="#">Edit</a>
jazzy				1242678911	salesman	<a href="#">Edit</a>
terry	terry@fake.com	terry's address	terry's city	1234567891	cashier	<a href="#">Edit</a>
honey	honey123@fke.com			123446863	salesperson	<a href="#">Edit</a>

### All Sales

The Sales section displays a paginated list of all completed transactions, showing important details like **bill ID, staff ID, subtotal, discount, total, and the date/time** of sale. The interface supports pagination for smooth navigation through large numbers of records and ensures that even heavy data loads don’t impact performance.

Admins can search specific sales using Bill ID or Total amount, and also apply date-based **filters** like: **Today, Last 3 Days, This Week, This Month, Last 3 Months, This Year, or even custom date ranges**. This

[Admin Logout](#)

Add User

Add Product

All Products

All Users

Sales

Analytics

Sales (10)

Select Filter



Bill ID	Staff ID	SubTotal	Discount	Total	Date
1	6	409	0%	409	Jun 28, 2025, 12:58 AM
2	6	269	0%	269	Jun 28, 2025, 4:47 PM
3	6	269	0%	269	Jun 28, 2025, 4:48 PM
4	6	1596	0%	1596	Jun 28, 2025, 4:48 PM
5	6	362	0%	362	Jun 28, 2025, 4:51 PM
6	6	294	0%	294	Jun 28, 2025, 4:52 PM
7	6	1008	4%	968	Jun 28, 2025, 4:53 PM

makes it easy to track trends, verify specific bills, or audit cashier performance over any given period.

# Store Analytics

## Analytics – Activity Logs

The Activity Logs section provides a detailed, paginated audit trail of every major action taken within the system. Each log entry records the user ID, their role, the type of action performed (e.g., created, updated, logged in/out), a brief description, the related entity (such as product, bill, or user), and the timestamp. This allows admins to trace exactly *who did what, when, and where* — ensuring full visibility across the platform.

Admins can apply filters to narrow logs based on date ranges (Today, This Week, This Month, This Year, or Custom) and by action types (Created, Updated, Deleted, Logged In, Logged Out, or Searched). To maintain the authenticity and integrity of the records, no update or delete options are provided on this page — logs are permanently stored and protected from tampering, making them reliable for future reference or investigations.

Store Name

Admin

Thu Jul 10 2025 11:59 PM

Admin Logout

Add User

Add Product

All Products

All Users

Sales

Analytics

←

Today

Action Type : 

None

Activities (20)

Userid	Action	Role	Description	Related To	Related ID	Time
3	Logged In	admin	admin Logged in			Jul 10, 2025, 11:21 PM
11	Logged Out	cashier	cashier Logged Out			Jul 10, 2025, 11:21 PM
11	Created	cashier	cashier Created a New Bill with ID #13	Bill	13	Jul 10, 2025, 11:11 PM
11	Searched	cashier	cashier Searched for Product/Products	Product		Jul 10, 2025, 11:10 PM
11	Searched	cashier	cashier Searched for Product/Products	Product		Jul 10, 2025, 11:10 PM
11	Searched	cashier	cashier Searched for Product/Products	Product		Jul 10, 2025, 11:10 PM

« Prev

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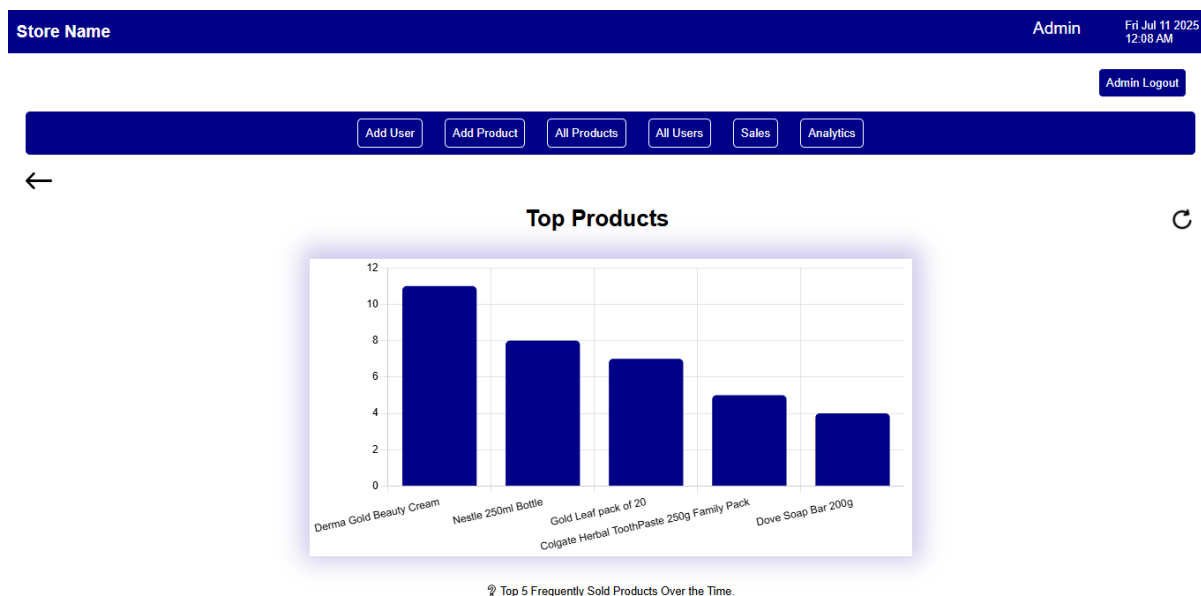
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## Analytics – Top Products

This section displays the Top 5 most frequently sold products based on billing history. Products are ranked by how often they were sold, helping admins identify high-demand items.

The data is visualized using **Chart.js** which helps with smarter restocking, sales strategy, and understanding customer preferences at a glance.



## Analytics – Top Cashiers

This section ranks the Top 5 cashiers by total sales amount over time. It highlights which staff members are generating the highest revenue through their billing activity.

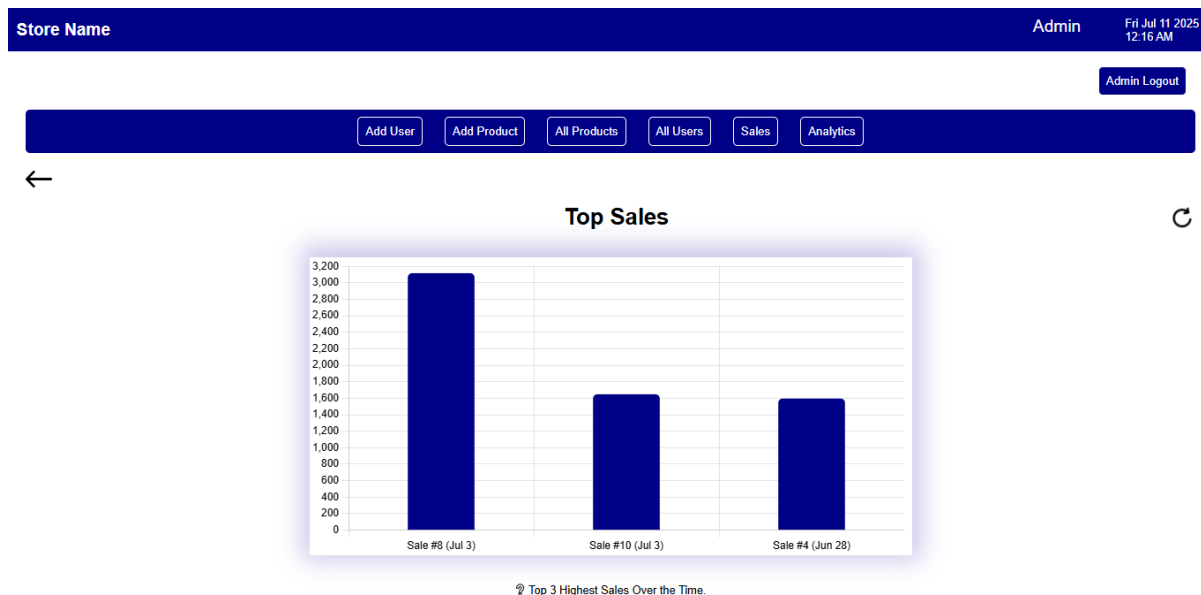
The data is visualized using **Chart.js** and this insight helps in performance reviews, incentives, and tracking staff productivity.



## Analytics – Top Sales

This section displays the Top 3 highest individual sales recorded over time, ranked by total bill amount. It gives insight into peak transactions and high-value orders.

Sales data is visualized using Chart.js for quick, clear comparison of top-performing bills.

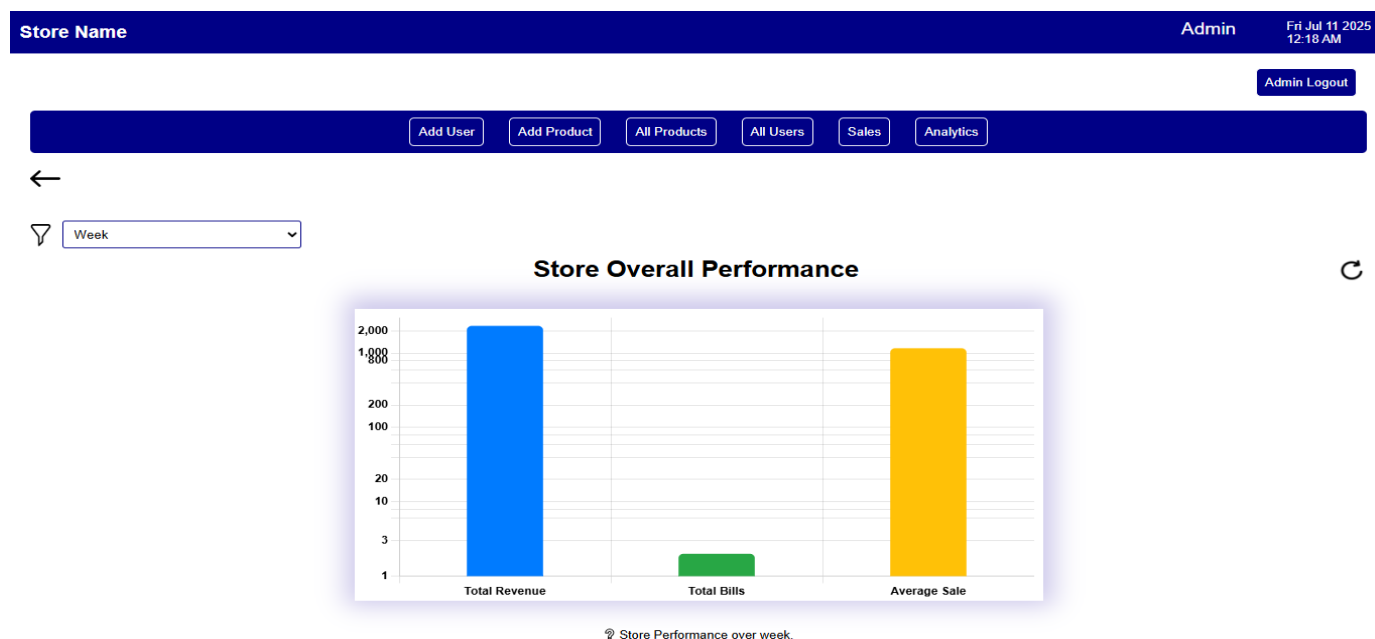


## Analytics – Store Performance

This section provides a high-level overview of store performance using Chart.js visualizations. It tracks three key business metrics over time:

- Total Revenue
- Total Bills
- Average Sale Value

Admins can **filter** the data by **Today, This Week, This Month, Last 6 Months, This Year, or a Custom Date Range**, giving them powerful insight into business trends and growth patterns.



## **Conclusion**

This Store Management system is a full-stack application built to simulate a real-world retail system, integrating billing, inventory, user roles, and analytics into one streamlined platform. It demonstrates my ability to build and connect backend (Laravel, MySQL) and frontend (React.js) systems, manage APIs, and create responsive, data-driven interfaces.

This project strengthened my understanding of full-stack architecture, real-time operations, and scalable feature development. Planned improvements include barcode scanning, customer loyalty features, and multi-store support.

***“Thank you for taking the time to view this project.”***

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