

### **Building a Simplified Pharmacy Management System**

Efficient operations and accurate inventory management are essential for success in the retail pharmacy sector. Our client has a digital solution designed to simplify and automate pharmacy processes, making daily operations smoother and more efficient.



# **Company Overview**

The client has a retail pharmacy business struggling with manual processes. They aim to modernize operations, improve efficiency, and enhance customer service through technology-driven solutions.

## Challenges

- No effective management of pharmacy information systems
- Manual tracking of sales transactions and inventory records
- Persistent discrepancies in stock item tracking
- Difficulty determining accurate stock balances in real-time
- Inefficient reporting processes Challenges in Medicine expiry management

### Solutions

- The app is a simplified pharmacy management system designed to streamline retail pharmacy operations.
- The application automates transactions related to sales, inventory management, and reporting, ensuring accuracy and efficiency. Goals of this application include, Master Data Management, Easy Billing,
- **Inventory Management, GST Filing, Reporting, Payment Services, Cash** Management.

**Technical Stack** 

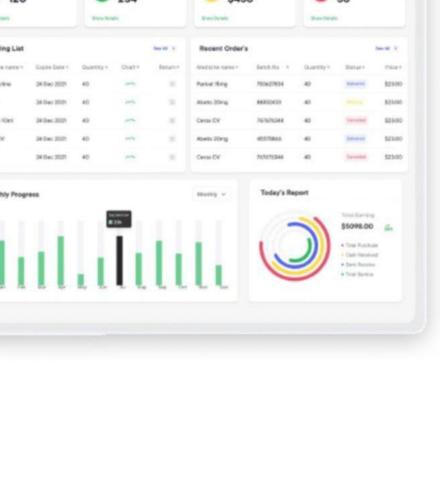
Database: PostgreSQL

Frontend: React JS, Electron, HTML, CSS, UX Design

Cloud Infrastructure: AWS EC2, RDS, S3

Backend: Node JS

**Modules** 



**Stock Management** 

**Invoice Management** 

**Order Management System** 

**Inter-Department Transfer Patient Records** 

**Inventory Management** 

Drivergo

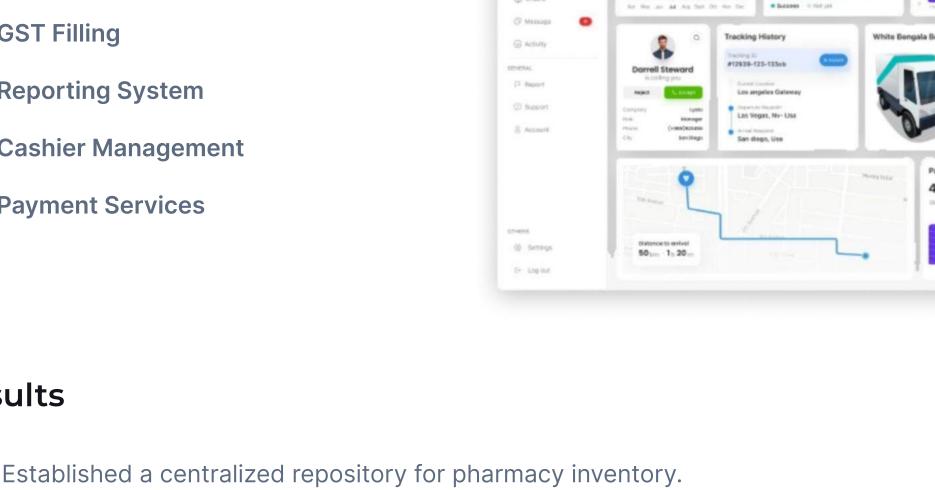
**Reporting System Cashier Management** 

**Master Data Management** 

**Payment Services** 

**GST Filling** 

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Shipment Track Status ~

# Eliminated manual record-keeping processes.

Results

Improved inventory visibility and management.

Reduced stock discrepancies through real-time tracking.

Enhanced reporting capabilities for better business insights.

Minimized medicine expiry waste through proactive tracking.

- Streamlined accounting and billing operations.
- Enabled offline operations ensuring business continuity.

scalability and security.

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- The front end is developed with React JS, ensuring a smooth and user-friendly experience, while the back end is powered by Node JS for efficient processing. PostgreSQL is used for secure and reliable data management.
  - It also supports offline functionality, allowing pharmacies to continue operations even in case of internet disruptions.

• The system is hosted on AWS cloud infrastructure (EC2, RDS, S3), providing

**Technical Implementation** 

• The solution is built as a web-based application using a modern technology stack.

## Summary

Our client helps retail pharmacies streamline their operations with a digital solution. It reduces manual work, improves inventory tracking, and ensures smooth business operations. The system works offline, allowing pharmacies to

continue running without internet disruptions. It also supports standard hardware, making it cost-effective and easy to use. By automating key processes, the solution lets pharmacies focus more on customer service instead of administrative tasks.