



QUANTUM BLAZE SOFTWARE SOLUTION

PROJECT PROPOSAL

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1. Introduction

In today's fast-paced pharmaceutical environment, efficiency, accuracy, and compliance are critical to the success of daily operations. Many pharmacies still rely on manual or outdated systems that lead to inventory mismanagement, slower service, and reduced customer satisfaction. To address these challenges, we propose the development of a modern, user-friendly Point of Sale (POS) system tailored specifically for pharmacy needs.

This system will streamline sales transactions, manage inventory in real-time, and generate insightful reports all within a secure and intuitive platform. By implementing this solution, the pharmacy can improve operational efficiency, reduce errors, and provide a better overall experience for both staff and customers.

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2. Project Overview

This project aims to develop a Java-based Pharmacy Billing and Inventory Management System to streamline and optimize pharmacy operations. The system will support core functionalities such as billing, inventory tracking, and comprehensive reporting.

Objective

The primary objective is to build a robust and user-friendly application that automates and manages key pharmacy processes. The system will include,

- Invoice Generation for patients and walk-in customers
- GRN (Goods Received Note) Management to record incoming stock
- Product & Brand Management to organize the pharmacy's stock catalog
- Sales, Stock, Day-end sheet, and GRN Reporting for performance and audit purposes

Key Features

- Billing Module
 - Generate and print patient invoices
 - Apply discounts and manage payments
- Inventory Module
 - Monitoring stock levels
- Supplier & GRN Module
 - Record goods received with GRN entries
 - Manage supplier records and contacts
 - Update inventory based on received items
- Reporting Module
 - Generate detailed reports on sales, stock balances, and GRNs
 - Utilize Jasper Reports for professional and printable output

3. Scope of Work

Included (In-Scope)

- Billing System
 - Invoice creation with patient details.
 - Billing discount
- Inventory Management
 - Product/brand management (CRUD operations).
- Supplier & GRN Module
 - Add/edit suppliers.
 - Record incoming stock (GRN entries).
- Reporting
 - Sales reports (daily/monthly).
 - Stock balance & GRN history (JasperReports).

Excluded (Out-of-Scope)

- ✗ Mobile app development.
- ✗ Multi-branch support (unless requested).

This scope defines the primary features to be developed. Future enhancements such as prescription integration and barcode scanning may be considered out of scope for the initial version but can be included in future phases.

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4. System Requirements

Functional Requirements

The system will be developed with a modular architecture, ensuring each component handles specific responsibilities. Below is a breakdown of the core modules and their respective functionalities:

1. Billing

- Create and edit invoices for patients and customers
- discounts for billing
- Print receipts after transaction completion

2. Inventory

- Add, edit, and delete product records
- Track current stock levels in real-time

3. GRN (Goods Received Note)

- Record supplier purchases and stock entries
- Associate GRNs with supplier and inventory items
- View GRN history and details

4. Reports

- Generate reports in PDF using JasperReports
- Include sales summaries, stock status, and GRN activity reports

Non-Functional Requirements Summary

The system guarantees millisecond response times, 24/7 reliability with real-time backups, and military-grade security. It features a one-click operation design, unlimited scalability, Windows compatibility, and instant report generation with dynamic visualizations. The architecture ensures future expandability while maintaining intuitive usability for pharmacy staff.

5. Deliverable

Upon completion of the project, the following deliverables will be provided to the client:

1. Standalone Application

- A fully functional Java-based pharmacy POS system, packaged for installation on client machines.
- Includes all core modules: Billing, Inventory, GRN, and Reporting.

2. Database Scripts (MySQL Schema)

- SQL scripts for creating the required MySQL database schema.
- Includes all tables, relationships, constraints, and initial seed data (if applicable).

3. User Manual (PDF with Screenshots)

- A comprehensive user guide detailing system usage, module overviews, and step-by-step instructions.
- Illustrated with screenshots to assist in onboarding and training.



6. Pricing & Payment Terms

Total Cost: LKR 52,000.00

Payment Schedule:

50% upfront (project initiation)

50% upon delivery (before system handover)

Important Note:

To qualify for ongoing technical support, future software updates, and priority maintenance services, full payment must be completed within 6 months of system initialization.

Failure to meet the payment terms within this period may result in

- Suspension of post-deployment support
- Ineligibility for future enhancements or update releases

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7. Support & Maintenance

To ensure smooth operation after deployment, the following support and maintenance services will be provided:

Free Services (Lifetime)

- Bug Fixing: Permanent resolution of system errors
- Basic Usage Assistance: Ongoing help desk or remote assistance

Initial Support (Free for 6 Months)

- Bug Fixes: Resolution of system errors or issues
- Usage Assistance: Help with operating the system via email, phone, or remote session
- Minor Updates: Small enhancements or adjustments based on initial feedback

Ongoing Maintenance (Post 6 Months)

An optional maintenance agreement can be arranged to include:

- Technical Support: Ongoing help desk or remote assistance
- Software Updates: Security patches and feature improvements
- Data Backups: Assistance with routine data backup strategies
- Priority Service: Faster response and resolution times

Note: Ongoing support and updates are only available if full payment is completed within 6 months of system initialization.

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8. Conclusion

The proposed pharmacy POS system is designed to address the operational needs of modern pharmacies by providing a reliable, efficient, and user-friendly platform for managing billing, inventory, suppliers, and reporting. With a strong focus on performance, usability, and future scalability, this solution will streamline day-to-day activities, reduce manual errors, and support informed decision-making.

We are confident that this system will enhance operational efficiency and provide long-term value to your pharmacy. We look forward to your approval and the opportunity to move forward with the development and successful deployment of this project.

The logo features a stylized atomic structure with three white spheres (nodes) connected by a network of white lines. Two prominent blue elliptical orbits encircle the central node. The word "QUANTUM" is rendered in a white, blocky, sans-serif font, with each letter containing a small blue square detail. Below it, the word "BLAZE" is displayed in a white, bold, sans-serif font, enclosed within a white rounded rectangular border.

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