# STORE MANAGER: KEEP TRACK OF INVENTORY

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# 1. Introduction

Inventory management plays a crucial role in ensuring that a business maintains adequate stock levels while avoiding overstocking. Manual tracking is error-prone and inefficient. This project introduces an automated Store Manager system to streamline inventory processes, increase efficiency, and provide real-time monitoring.

# 2. Objectives

Develop a user-friendly inventory management application.Minimize manual errors in stock handling.Provide real-time tracking of items.Enable generation of detailed analytical reports.Ensure scalability for future growth.

# 3. Existing System & Limitations

The traditional system of inventory management relies on manual record keeping or basic spreadsheets. Such systems are prone to data entry errors, lack real-time updates, and often fail to generate insightful reports. As a result, decision-making becomes difficult and inefficient.

# 4. Proposed System

The proposed Store Manager system provides a centralized platform where inventory details can be added, updated, searched, and reported in real time. It ensures accuracy, improves efficiency, and supports better decision-making by managers. It also offers features like report generation and user authentication for secure access.

# 5. Methodology

The project follows a modular development approach. Major modules include: Authentication ModuleInventory ModuleReport Generation ModuleDatabase Management Module The methodology ensures systematic design, development, and testing of each module.

# 6. System Design

The system design is divided into three layers: User Interface, Backend, and Database. The architecture diagram below illustrates the relationship between these layers.
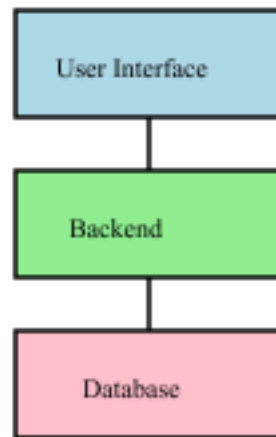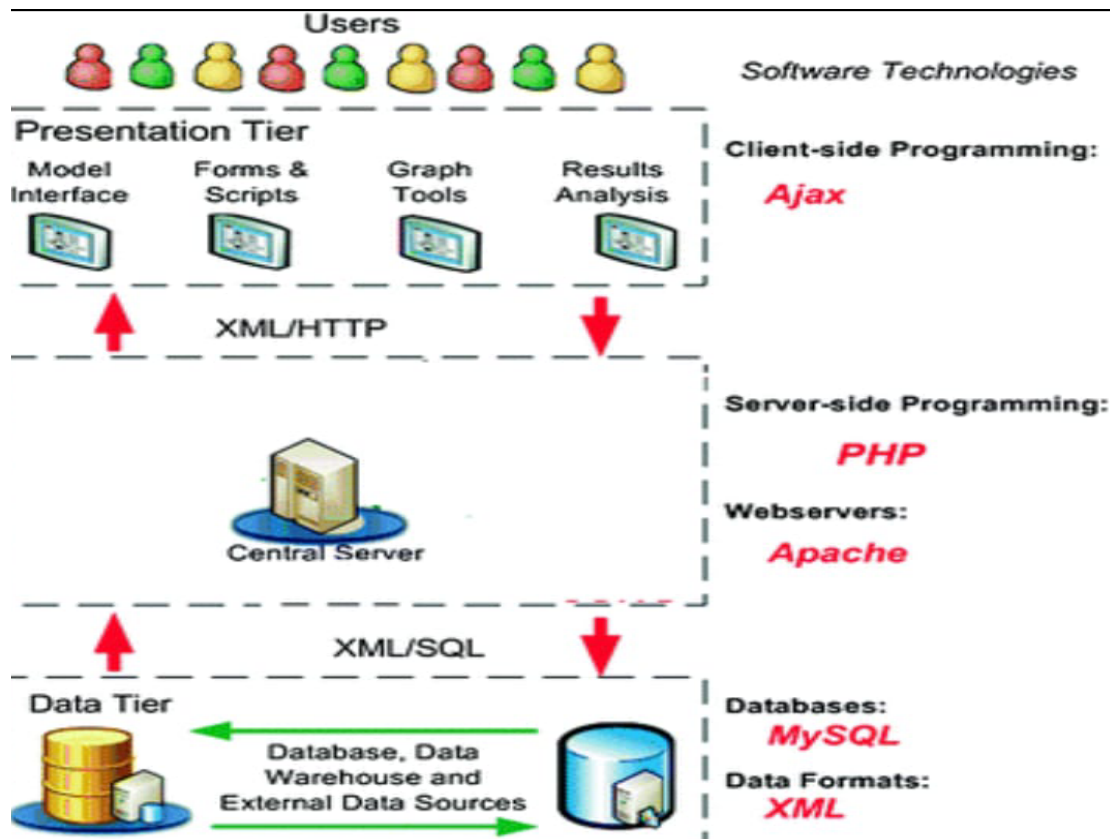
Figure 1: System Architecture Diagram shows how the User Interface communicates with the Backend, which in turn connects to the Database.
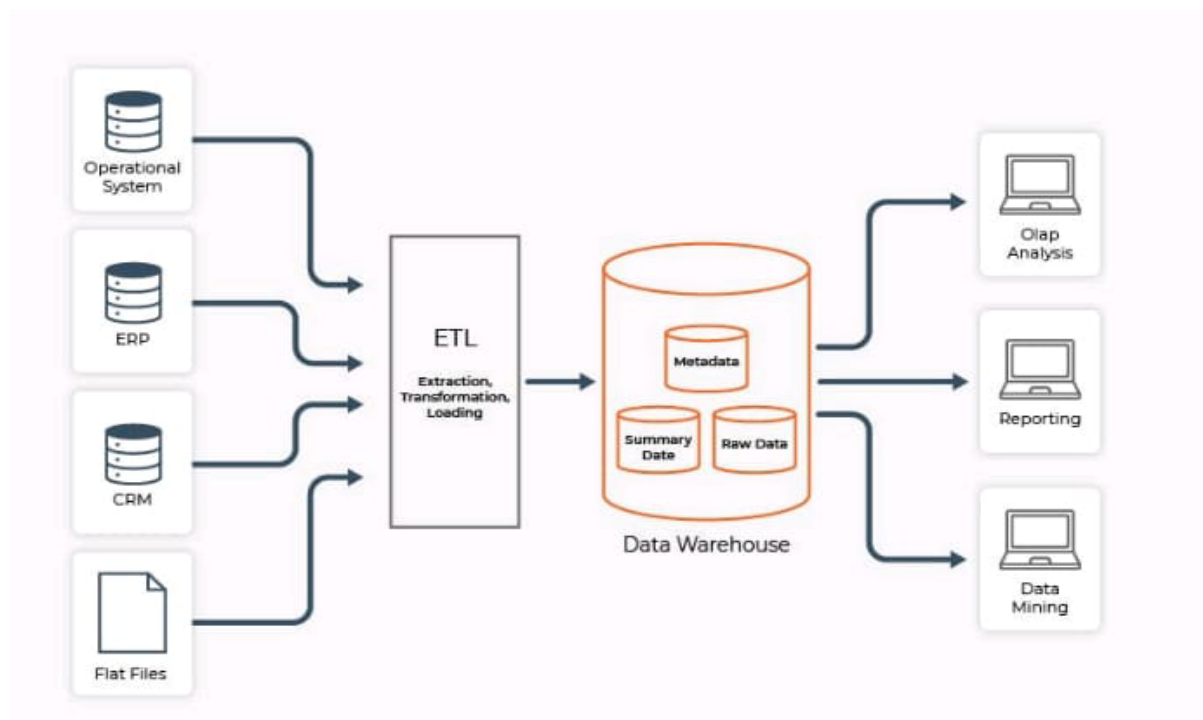
# 7. Implementation

The implementation phase includes the integration of all modules. The flowchart below represents the step-by-step flow of the system from login to logout.



Figure 2: System Flowchart depicts the user journey through login, performing operations like Add/Update/Search/Report, and finally logging out.

# 8. Results & Discussion

The system was successfully implemented and tested. It efficiently tracks inventory, minimizes errors, and generates real-time reports. Managers can now make better decisions based on accurate data.

# 9. Conclusion & Future Work

The Store Manager system has proven effective in managing inventory in real-time, improving efficiency, and reducing manual workload. Future improvements may include Barcode/QR integration, cloud-based data storage, and mobile app support for remote access.