# Requirements

## Functional requirements

1 Sales:

1.1Selling Medicine:

1.1.1 The system should allow employees to record sales transactions, including details such as customer information, medicine name, quantity sold, and unit price.

1.1.2 Integration with a barcode scanner or manual entry should be supported for efficient sales processes.

1.2 Inventory Management:

1.2.1 The system should automatically update the available quantity of each medicine after a sale is completed, ensuring real-time inventory tracking.

1.2.2 Notifications should be generated when the stock of a particular medicine falls below a predefined threshold.

1.3 Sales Performance Tracking:

1.3.1 The system should provide tools for tracking and analyzing sales performance, including metrics such as total sales, top-selling medicines, and sales trends over time.

2 Purchase:

2.1 Buying Medicine from Distributors:

2.1.1 Employees should be able to create purchase orders for medicines from authorized distributors, specifying details like quantity, and expiration dates.

2.2 Inventory increase:

2.2.1 The system should automatically update the available quantity of each purchased medicine, reflecting the increase in stock.

3 Reports:

3.1 Sales Reports:

3.1.1 The system should generate detailed reports on sales activities, including daily, weekly, and monthly summaries, as well as custom date ranges.

3.1.2 Reports should include information on total sales, and top-selling medicines.

3.2 Purchase Reports:

3.2.1 Detailed reports on purchases should be available, displaying information such as total expenditure, and quantities purchased.

3.3 Medicine Reports:

3.3.1 Comprehensive reports on medicine inventory, including stock levels, expiration dates, and reorder suggestions, should be generated.

3.4 Net Profit Reports:

3.4.1 The system should calculate and provide reports on the net profit, taking into account both sales and purchase transactions.

4 Alerts:

4.1 Expiration Alerts:

4.1.1 The system should generate alerts for employees when the expiration date of a medicine is approaching, allowing timely actions such as marking for discounts or removal from shelves.

5 Employees:

5.1 User Authentication:

5.1.1 The system should have a secure login mechanism with role-based access control, ensuring that employees can only access functions relevant to their roles.

5.2 Activity History:

5.2.1 A detailed activity log should be maintained for each employee, capturing actions such as logins, logouts, sales transactions, purchases, and any system operations.

6 Return:

6.1 Return to Distributors:

6.1.1 Employees should be able to process returns of medicines to distributors within the specified time frame, recording relevant details such as reasons for return and quantities returned.

6.2 Inventory Update:

6.2.1 The system should automatically adjust the available quantity of returned medicines in the inventory.

6.3 Stock Reduction:

6.3.1 The return process should result in a decrease in the number of available medicines, reflecting accurate stock levels.

## Non-functional requirements

1. **Performance:**
2. **Reliability:**
3. **Security:**
4. **Scalability:**
5. **Usability:**
6. **Availability:**
7. **Backup and Recovery**
8. **Dependability**