# Requirements

## Functional requirements

**1** Sales:

**1.1** Selling 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**