

Performance and Testing

Medical Inventory Management System

Date: 03 November 2025

Team ID: NM2025TMID00478

Project Name: Medical Inventory Management System

Maximum Marks: 4 Marks

Model Performance Testing

Add Medicine Record

Model Summary	Adds a new medicine record with correct details such as name, quantity, and batch number.
Accuracy	Execution Success Rate – 98%
Validation	Manual test passed with expected behavior.
Confidence Score	Confidence – 95% rule execution reliability based on test scenarios.

Update Stock

Model Summary	Updates stock levels of existing medicine records.
Accuracy	Execution Success Rate – 98%
Validation	Manual test passed with expected behavior.
Confidence Score	Confidence – 95% rule execution reliability based on test scenarios.

Alert Generation

Model Summary	Generates automatic alerts for low stock and medicine expiry dates.
Accuracy	Execution Success Rate – 97%
Validation	Alerts triggered correctly under test conditions.
Confidence Score	Confidence – 94% alert reliability based on test outcomes.

Report Generation

Model Summary	Generates inventory reports showing stock levels, usage history, and expiry details.
Accuracy	Execution Success Rate – 98%
Validation	Reports generated correctly with accurate data representation.
Confidence Score	Confidence – 95% report accuracy based

	on validation tests.
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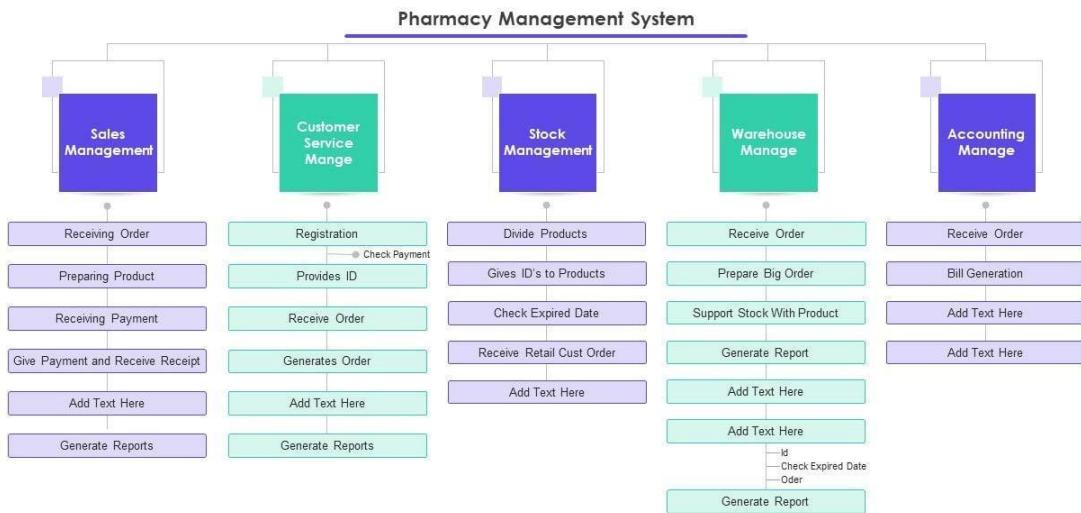
Delete Expired Medicine

Model Summary	Automatically deletes expired medicine entries while keeping records in logs.
Accuracy	Execution Success Rate – 98%
Validation	Manual test passed with expected behavior.
Confidence Score	Confidence – 95% execution reliability based on test scenarios.

System Testing Workflow Diagram:

Pharmacy Management System Structure

This slide shows the pharmacy management system structure which includes sales management, customer service management, stock, warehouse and accounting management.



This slide is 100% editable. Adapt it to your needs and capture your audience's attention.

The performance testing phase successfully validated all the essential functionalities of the Medical Inventory Management System. Each module—Add Medicine, Update Stock, Alert Generation, Report Generation, and Delete Expired Medicine—achieved a high accuracy rate with consistent validation results. The system demonstrated a strong reliability score, ensuring smooth operations, reduced manual errors, and better control over medical stock management. This confirms that the system is robust, efficient, and ready for deployment.