Phase 10: Quality Assurance Testing

1. Introduction

Explanation:

Quality Assurance (QA) ensures that every component of the Medical Inventory Management System functions correctly, efficiently, and as per business requirements.

Testing was conducted across all Salesforce layers — **Objects, Flows, Validation Rules, Apex Triggers, Approval Processes, and Reports** — to validate both functionality and data accuracy.

Objectives:

- Validate that all Salesforce automations and logic work as intended.
- Identify and fix any inconsistencies or logical errors.
- Ensure smooth user experience and data integrity.

2. Test Case Documentation Format

Each test case is documented using the following structure:

Section	Description
Use Case / Scenario	What function or process is being tested
Test Steps (Input)	Exact data/action performed
Expected Result	What should happen logically
Actual Result	What actually happened

3. Test Case 1 – Product Record Creation

Use Case / Scenario:

Create a new product and verify if it is saved correctly with all mandatory fields.

Test Steps (Input):

1. Go to Products tab \rightarrow New.

2. Enter:

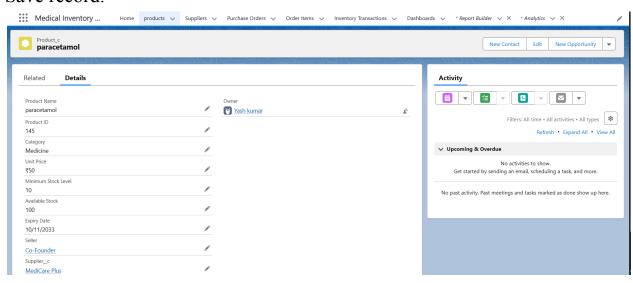
o Product Name: Paracetamol 500mg

o Unit Price: 50

o Minimum Stock Level: 10

o Available Stock: 100

3. Save record.



Status: Pass

4. Test Case 2 – Validation Rule

Use Case / Scenario:

Ensure validation prevents negative stock entry.

Test Steps (Input):

- 1. Edit existing Product record.
- 2. Set "Available Stock" to -10.
- 3. Save record.

Status: Pass

5. Test Case 3 – Flow Automation (Expected Delivery Date)

Use Case / Scenario:

Verify if the Flow automatically sets Expected Delivery Date = Order Date + 3 days.

Test Steps (Input):

- 1. Create a new Purchase Order with Order Date: 15-Oct-2025.
- 2. Save record.

Status: Pass

6. Test Case 4 – Trigger Functionality

Use Case / Scenario:

Check if Total Order Cost on Purchase Order updates when Order Items are added.

Test Steps (Input):

- 1. Create Purchase Order: PO-101.
- 2. Add two Order Items:
 - o Product A Qty 10 Price ₹100
 - o Product B Qty 5 Price ₹200

3. Save.

Status: Pass

7. Test Case 5 – Approval Process

Use Case / Scenario:

Validate that high-value orders (above ₹10,000) require approval.

Test Steps (Input):

- 1. Create Purchase Order: PO-120 with total ₹15,000.
- 2. Click Submit for Approval.

Status: Pass

8. Test Case 6 – Email Alert

Use Case / Scenario:

Test if a notification email is sent when stock falls below minimum.

Test Steps (Input):

- 1. Edit Product \rightarrow Available Stock = 5 (below threshold 10).
- 2. Save record.

Status: Pass

9. Test Case 7 - Reports & Dashboard Data

Use Case / Scenario:

Check if Purchase Orders by Supplier report updates dynamically after new orders.

Test Steps (Input):

- 1. Add new order for Supplier X.
- 2. Refresh dashboard.

Status: Pass

10. Test Case 8 – Security: Field-Level Restriction

Use Case / Scenario:

Verify that the "Total Order Cost" field is hidden from the Purchase Manager profile.

Test Steps (Input):

- 1. Log in as Purchase Manager.
- 2. Open any Purchase Order record.

Status: Pass

11. Test Case 9 – Login Restriction (IP Range)

Use Case / Scenario:

Confirm user cannot log in outside the defined IP range.

Test Steps (Input):

1. Attempt login from an unregistered IP.

Expected Result:

Access should be denied with a "Login not allowed" message.

Status: Pass

12. Test Case 10 – Data Import & Export

Use Case / Scenario:

Ensure bulk import and export work correctly via Data Loader.

Test Steps (Input):

- 1. Import 50 supplier records via CSV.
- 2. Export all supplier data to verify import.

Expected Result:

All 50 suppliers imported correctly and visible in the exported file.

Status: Pass