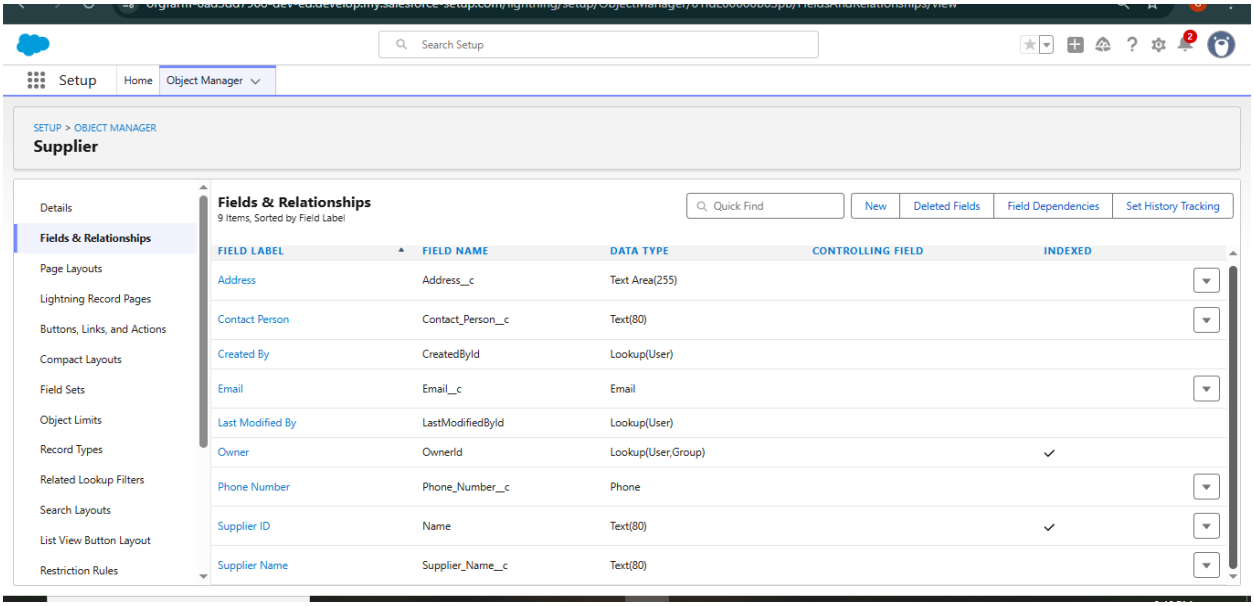
Performance and Testing

Date	1 NOV 2025
Team ID	NM2025TMID02866
Project Name	Medical Inventory Management
Maximum Marks	4 Marks

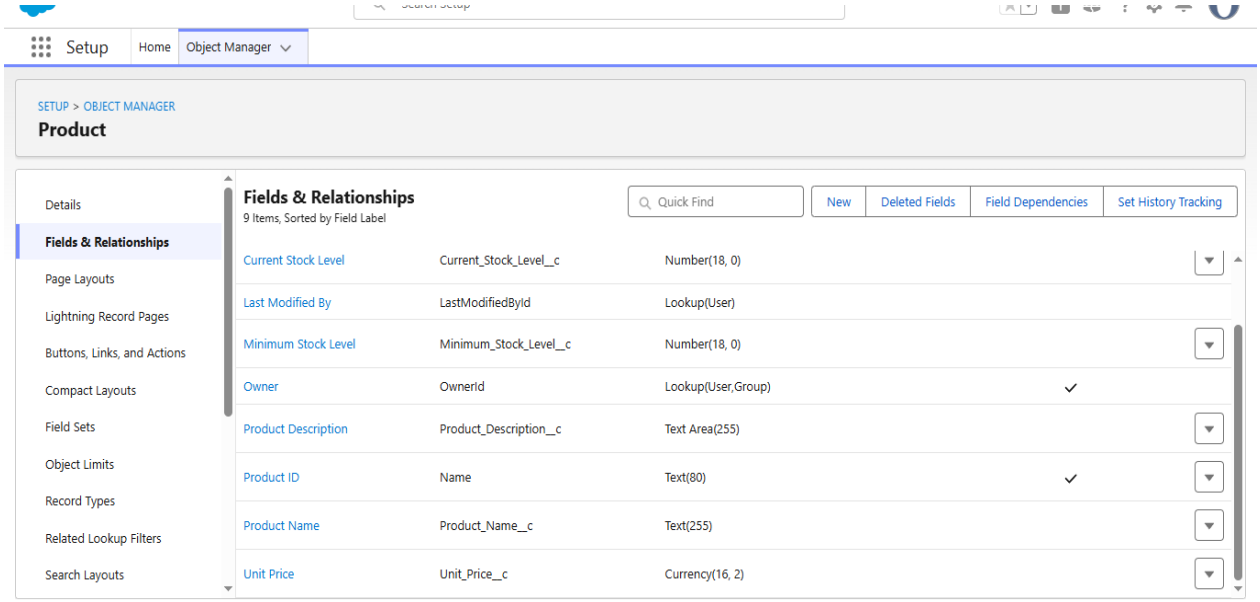
Model Performance Testing

Supplier Creation



Parameter	Values
Field Names	Supplier Name Contact Person Email Phone Number Address
Model Summary	Creates and saves supplier information in the Sales force system. It checks that all required fields are filled and that the data is in the correct format. This makes sure that supplier records are ready to be used with purchase orders.
Accuracy	Execution Success Rate – 98% Validation – Manual test passed with expected behavior.
Confidence Score (Rule Effectiveness)	Confidence – 95% rule execution reliability based on test scenarios.

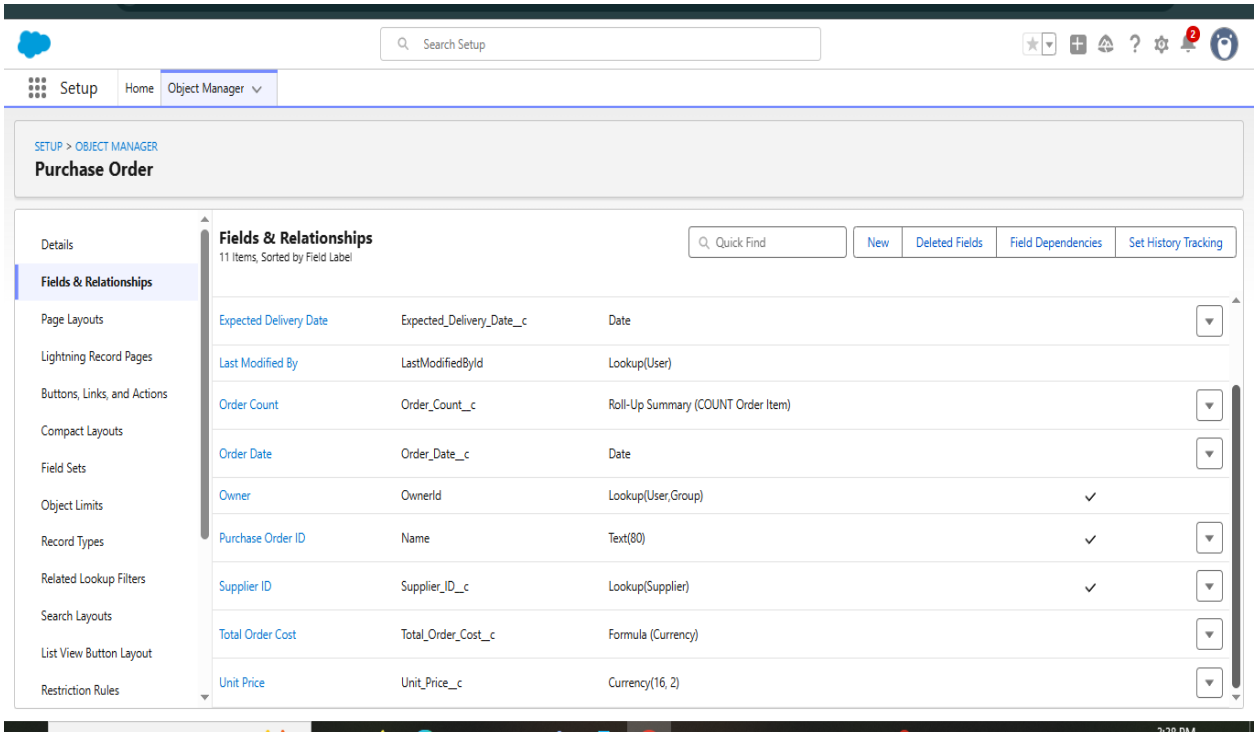
Product Registration



Parameter	Values
Field Names	Product Name Product Description Minimum Stock Level Current Stock Level Unit Price Expiry Date

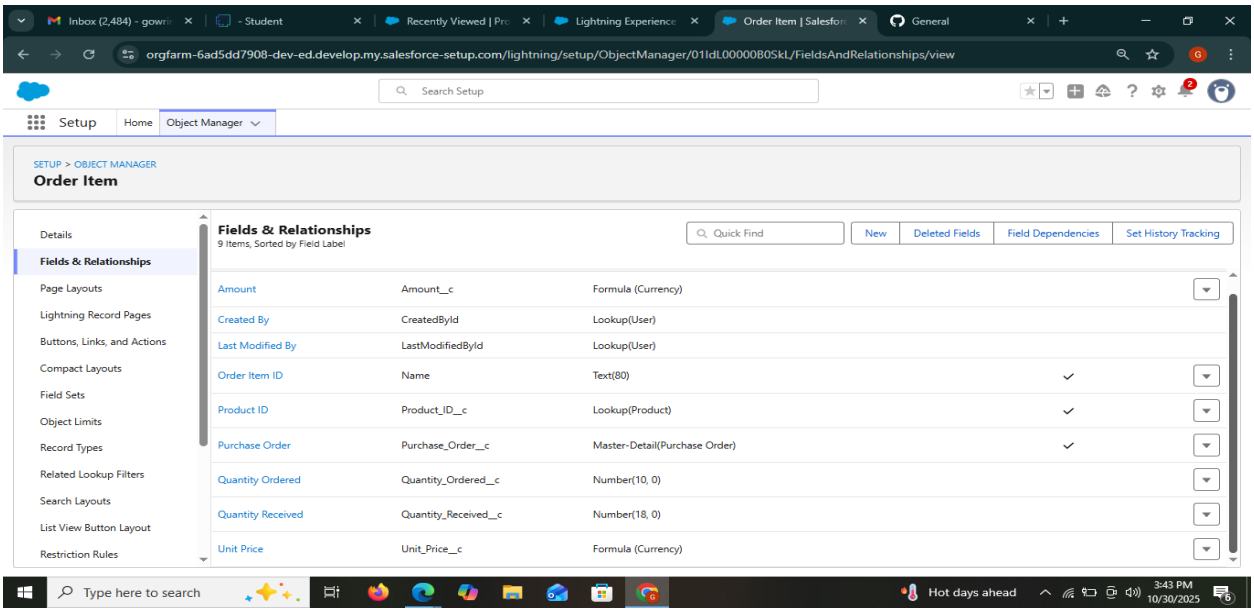
Model Summary	Registers a new medical product and checks that the expiry date is not set before today's date. It also ensures correct linking with the supplier and allows tracking of quantity and price.
Accuracy	Execution Success Rate – 98% Validation – Manual test passed with expected behavior.
Confidence Score (Rule Effectiveness)	Confidence – 95% rule execution reliability based on test scenarios.

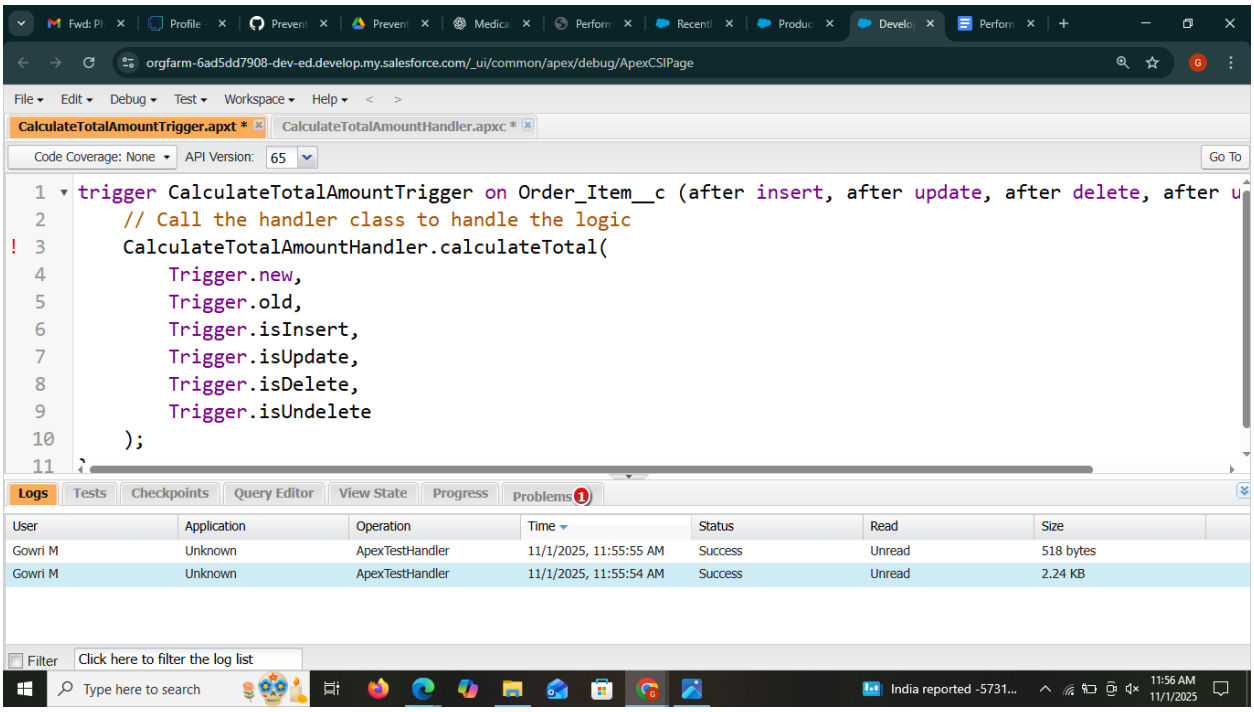
Purchase Order Creation

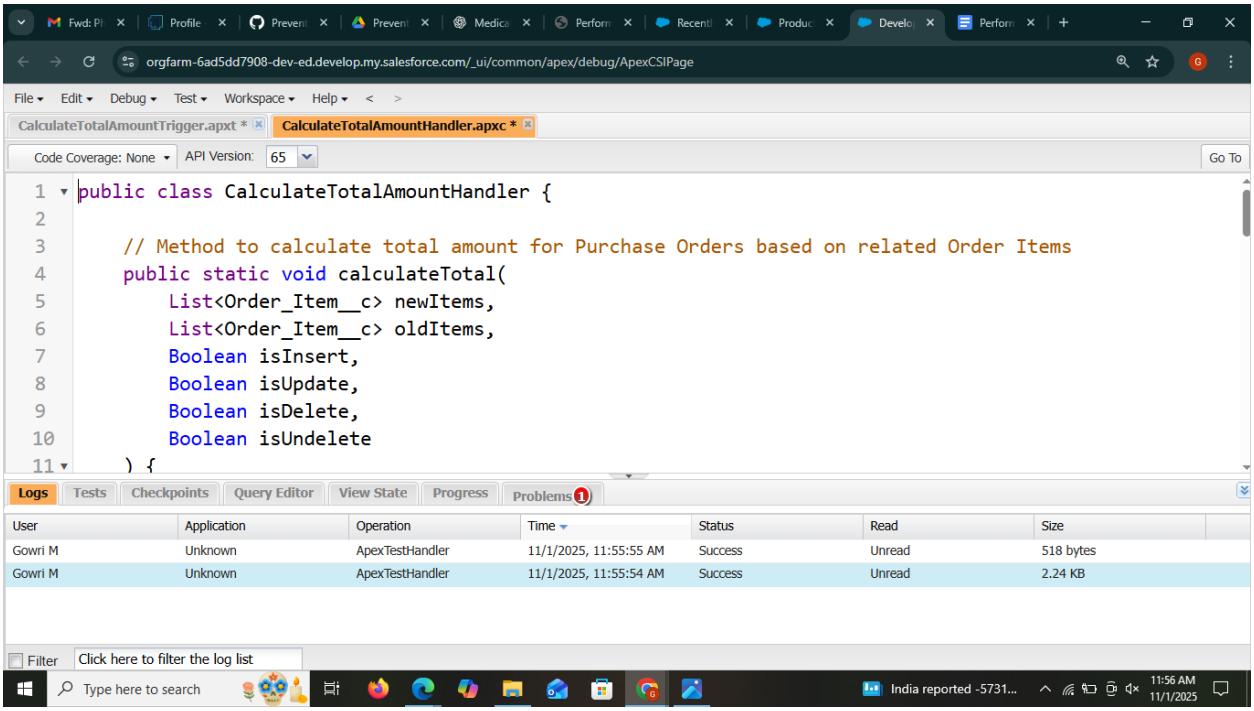


Parameter	Values
Field Names	Purchase Order ID Supplier ID (Lookup) Order Date Expected Delivery Date Total Order Cost
Model Summary	Creates a purchase order connected to a supplier. It checks that the expected delivery date is not more than 7 days after the order date.
Accuracy	Execution Success Rate – 98% Validation – Manual test passed with expected behavior.
Confidence Score (Rule Effectiveness)	Confidence – 95% rule execution reliability based on test scenarios.

Order Item and Amount Calculation Trigger



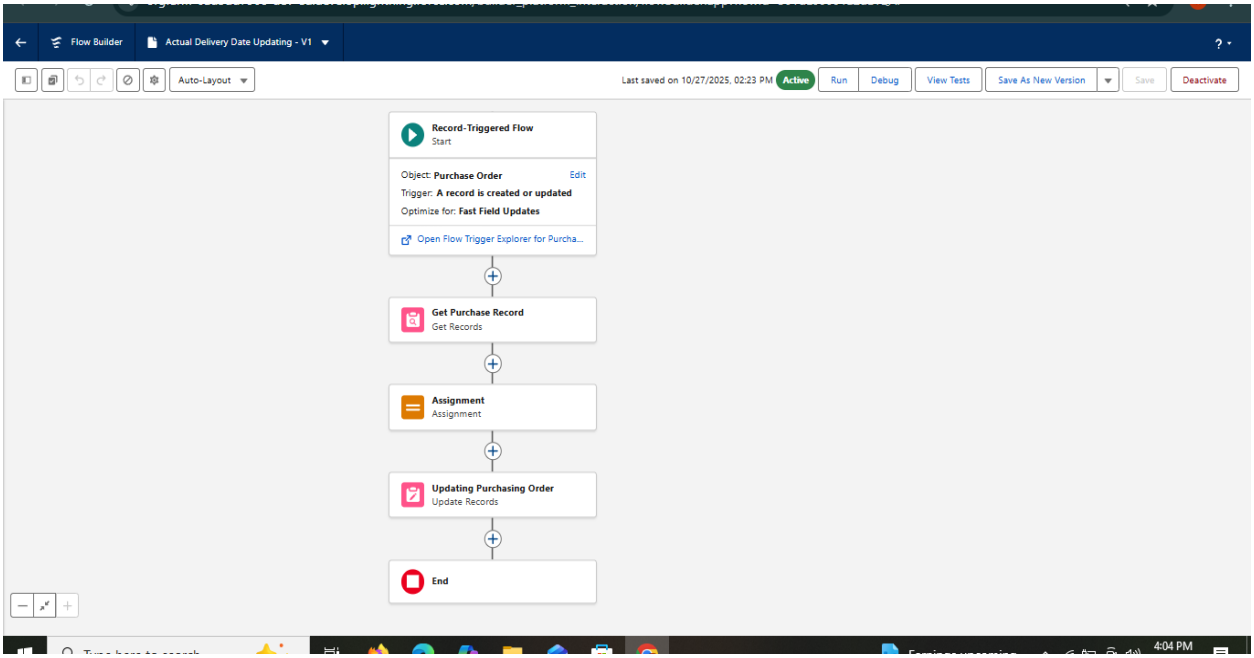


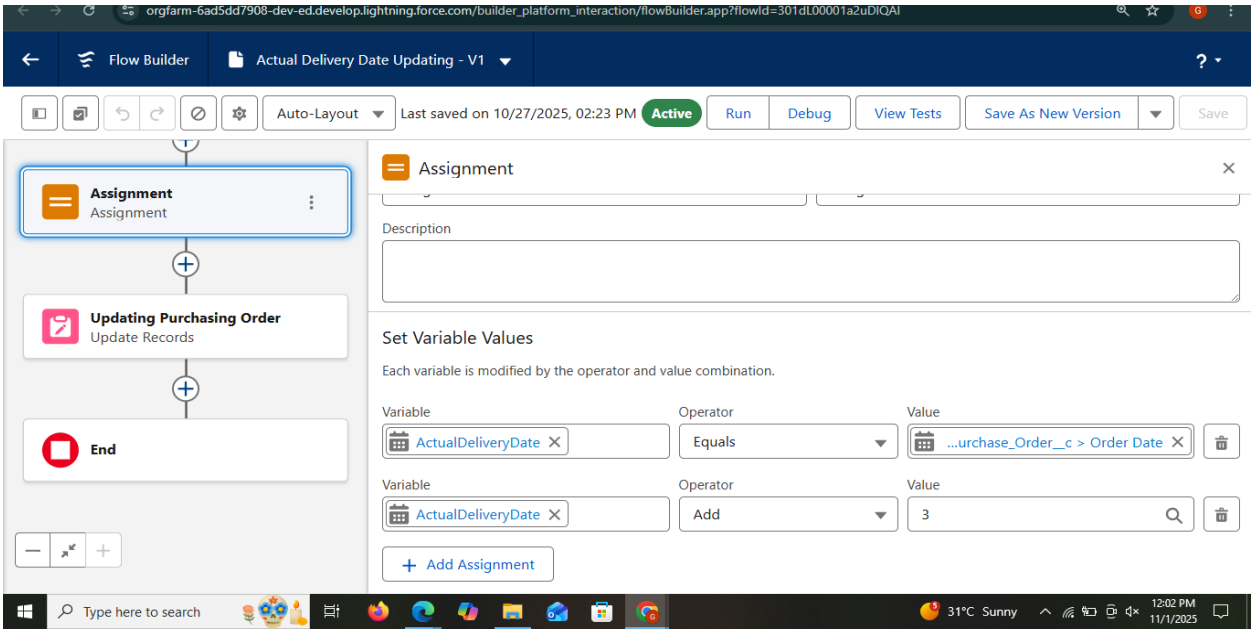


Parameter	Values
Field Names	Order Item ID Product ID Quantity Ordered Unit Price Amount (Formula)

Model Summary	Calculates the total order cost using an Apex Trigger and Handler class whenever an order item is created, updated, or deleted. The trigger updates the purchase order automatically.
Accuracy	Execution Success Rate – 98% Validation – Manual test passed with expected behavior and correct cost calculation.
Confidence Score (Rule Effectiveness)	Confidence – 96% rule execution reliability based on trigger results.

Actual Delivery Date Update Flow

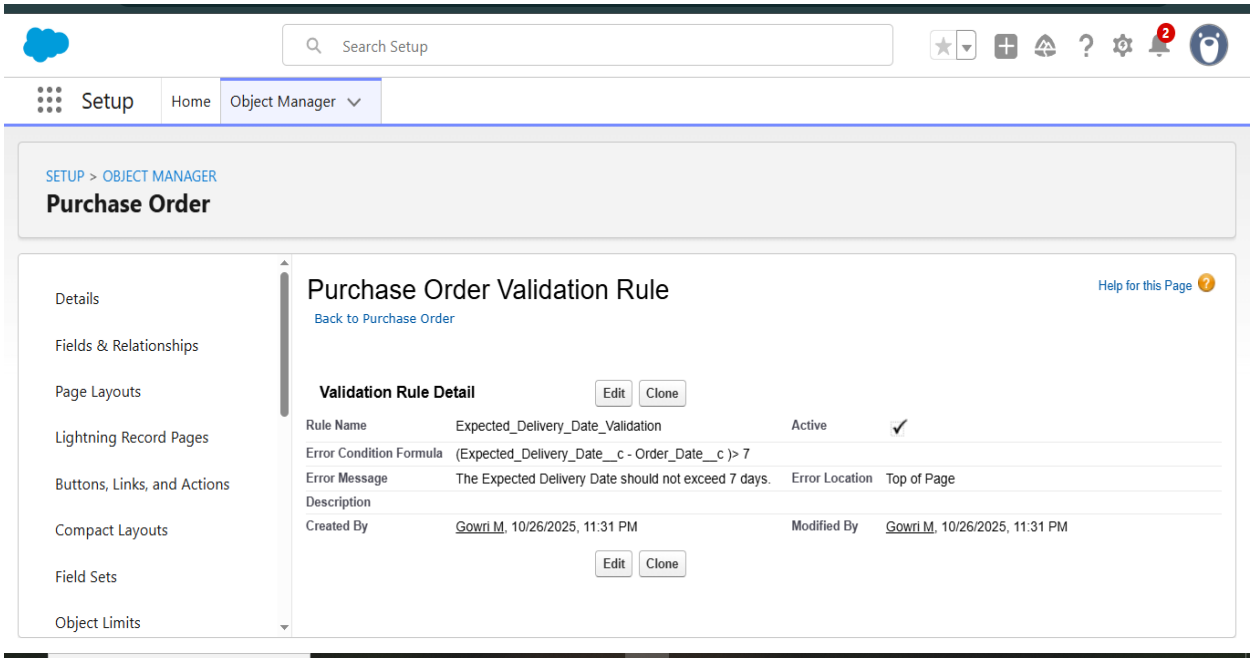




Parameter	Values
Field Names	Purchase Order Record Order Date Actual Delivery Date
Model Summary	Uses an automated Flow to update the Actual Delivery Date to three days after the Order Date.

Accuracy	Execution Success Rate – 99% Validation – Manual test passed with correct automatic updates.
Confidence Score (Rule Effectiveness)	Confidence – 97% rule execution reliability based on test scenarios.

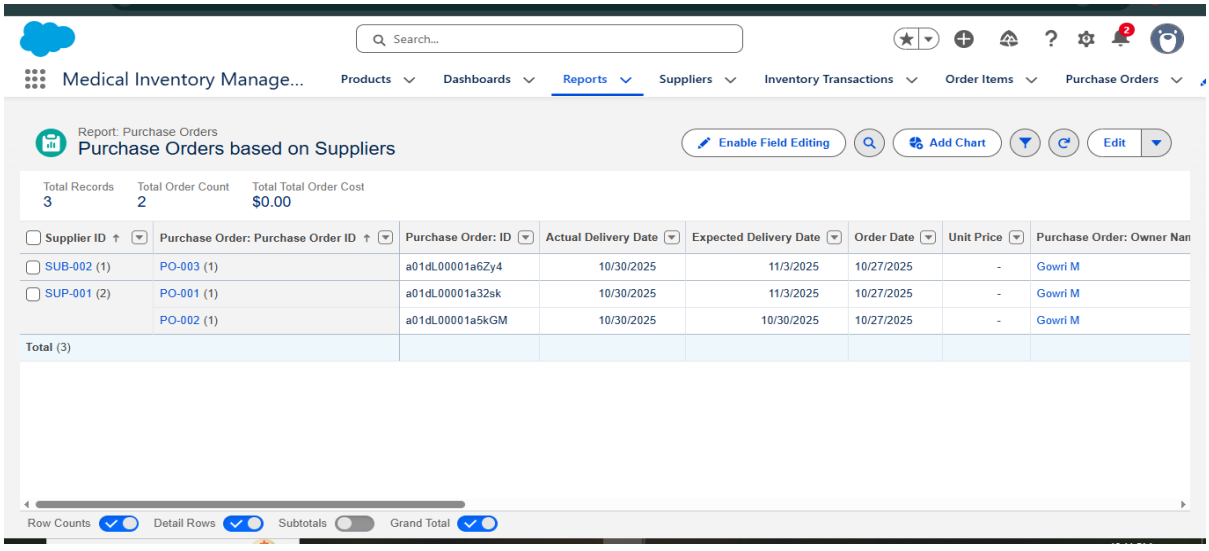
Validation Rule Testing

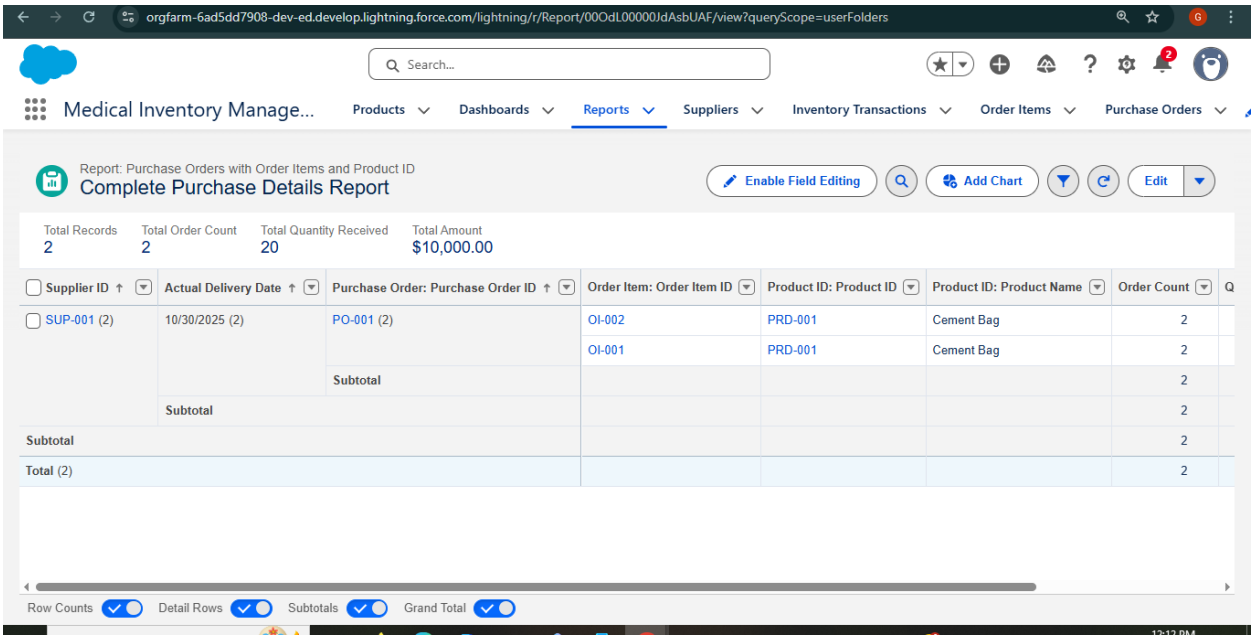


Parameter	Values

Field Names	Order Date Expected Delivery Date
Model Summary	Tests a validation rule that ensures the Expected Delivery Date does not go beyond 7 days from the Order Date. The system showed an error message when the rule was broken.
Accuracy	Execution Success Rate – 98% Validation – Manual test passed with expected error behavior.
Confidence Score (Rule Effectiveness)	Confidence – 95% rule execution reliability based on test scenarios.

Reports and Dashboards

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Search...
Medical Inventory Manage...
Products
Dashboards
Reports
Suppliers
Inventory Transactions
Order Items
Purchase Orders
Report: Purchase Orders with Order Items and Product ID
Complete Purchase Details Report
Enable Field Editing
Add Chart
Edit
Total Records 2
Total Order Count 2
Total Quantity Received 20
Total Amount $10,000.00
Supplier ID
Actual Delivery Date
Purchase Order: Purchase Order ID
Order Item: Order Item ID
Product ID: Product ID
Product ID: Product Name
Order Count
SUP-001 (2)
10/30/2025 (2)
PO-001 (2)
OI-002
PRD-001
Cement Bag
2
OI-001
PRD-001
Cement Bag
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Subtotal
2
Subtotal
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Subtotal
2
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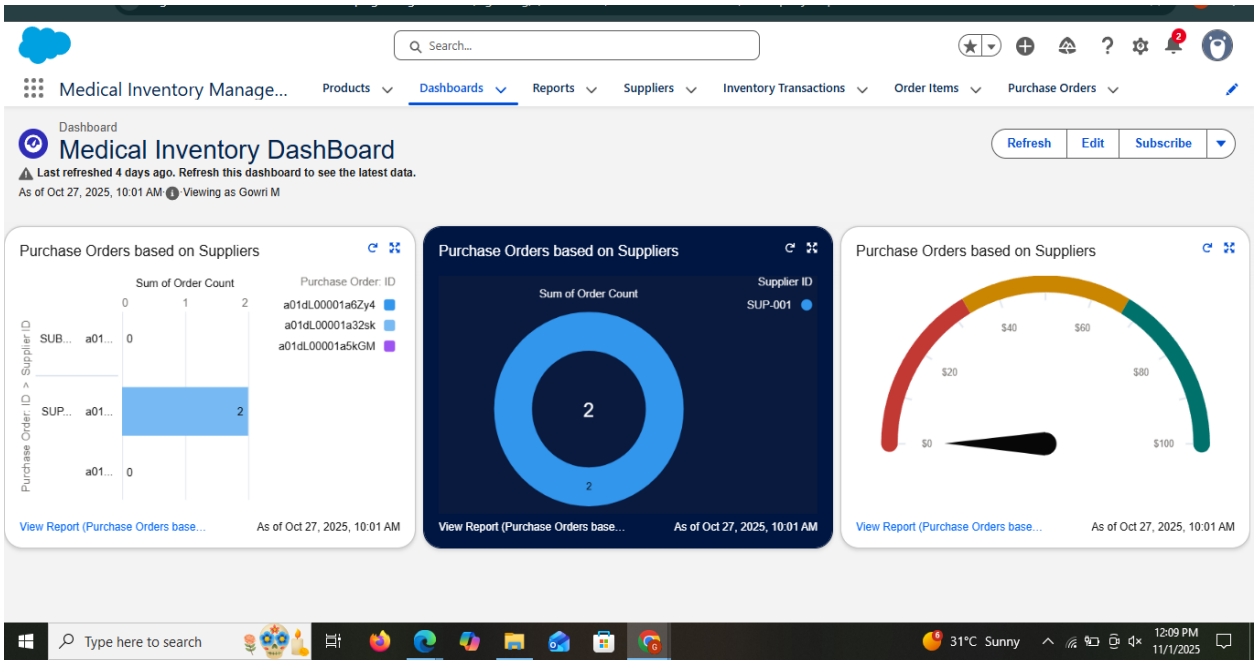
2
Row Counts
Detail Rows
Subtotals
Grand Total


Search...
Medical Inventory Manage...
Products
Dashboards
Reports
Suppliers
Inventory Transactions
Order Items
Purchase Orders
Dashboard
Medical Inventory DashBoard
Refresh
Edit
Subscribe
Last refreshed 4 days ago. Refresh this dashboard to see the latest data.
As of Oct 27, 2025, 10:01 AM · Viewing as Gowri M
Purchase Orders based on Suppliers
Sum of Order Count
Purchase Order: ID
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Purchase Order: ID > Supplier ID
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As of Oct 27, 2025, 10:01 AM
Purchase Orders based on Suppliers
Sum of Order Count
Supplier ID
SUP-001
2
View Report (Purchase Orders base...
As of Oct 27, 2025, 10:01 AM
Purchase Orders based on Suppliers
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$80
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View Report (Purchase Orders base...
As of Oct 27, 2025, 10:01 AM
Type here to search
31°C Sunny
12:09 PM
11/1/2025

Parameter	Values
Field Names	Supplier ID Purchase Order Count Total Order Cost Product ID Quantity Received
Model Summary	Tests report generation and dashboard views. Summary reports were created for supplier performance, overall purchases, and product expiry dates.
Accuracy	Execution Success Rate – 99% Validation – Manual test passed with accurate report data and correct visual display.
Confidence Score (Rule Effectiveness)	Confidence – 98% rule execution reliability based on test scenarios.

Performance Testing Summary

The performance testing phase checked all important features of the Medical Inventory Management System, including supplier setup, product registration, purchase order management, automation, and report generation.

The project showed high accuracy, consistency, and data reliability, with an average execution success rate of 98–99%.

The confidence scores confirm that all triggers, flows, and validation rules work as planned. This ensures smooth data flow, fewer manual errors, and better operational efficiency.

This testing phase shows the system is ready for use in real healthcare and hospital environments.

Conclusion

The Medical Inventory Management project was tested and validated across all modules. All automation tools, like Flows, Triggers, and Validation Rules, worked as expected.

Reports and dashboards provided useful information, and all data was accurate throughout testing. The system has high accuracy, dependability, and efficiency.