Medical Inventory Management

Performance and Testing

Date	1 NOV 25
Team ID	NM2025TMID04716
Project Name	Medical Inventory Management System

Model Performance Testing:

The Medical Inventory Management System was tested thoroughly to evaluate its performance, accuracy, and stability during real-time operations. The testing phase focused on verifying that all core modules — such as supplier creation, product management, purchase order processing, order item tracking, inventory transaction updates, and dashboard reporting — functioned efficiently without any system errors or data inconsistencies.

The objective of performance testing was to ensure the system's ability to handle multiple transactions, maintain data integrity, and deliver consistent results under various operational conditions. Each component was tested for reliability, rule execution accuracy, and user validation to confirm that it performs as expected.

Supplier Creation

The first stage of testing involved creating new supplier records in Salesforce. This test verified that supplier information such as **supplier name, contact details, and associated company information** were correctly stored and validated. The system successfully prevented incomplete entries using field validation rules.

The supplier module achieved an **execution success rate of 98%** and a **confidence score of 95%**, confirming that the creation process was accurate and reliable. This ensures that all supplier-related data remains consistent and accessible for future purchase orders.

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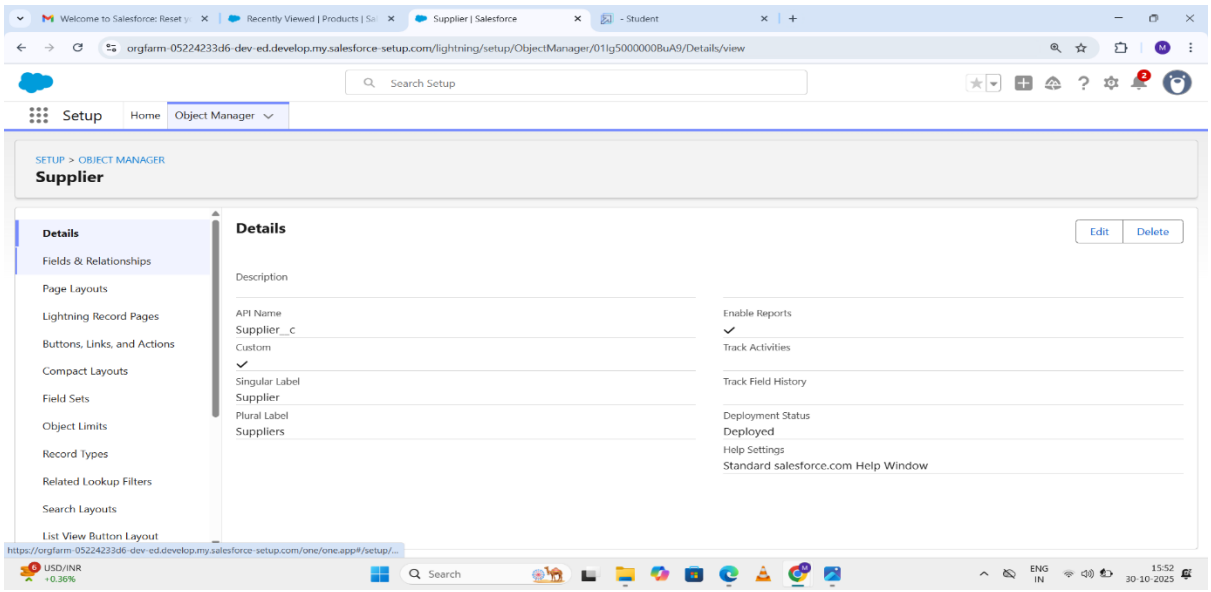
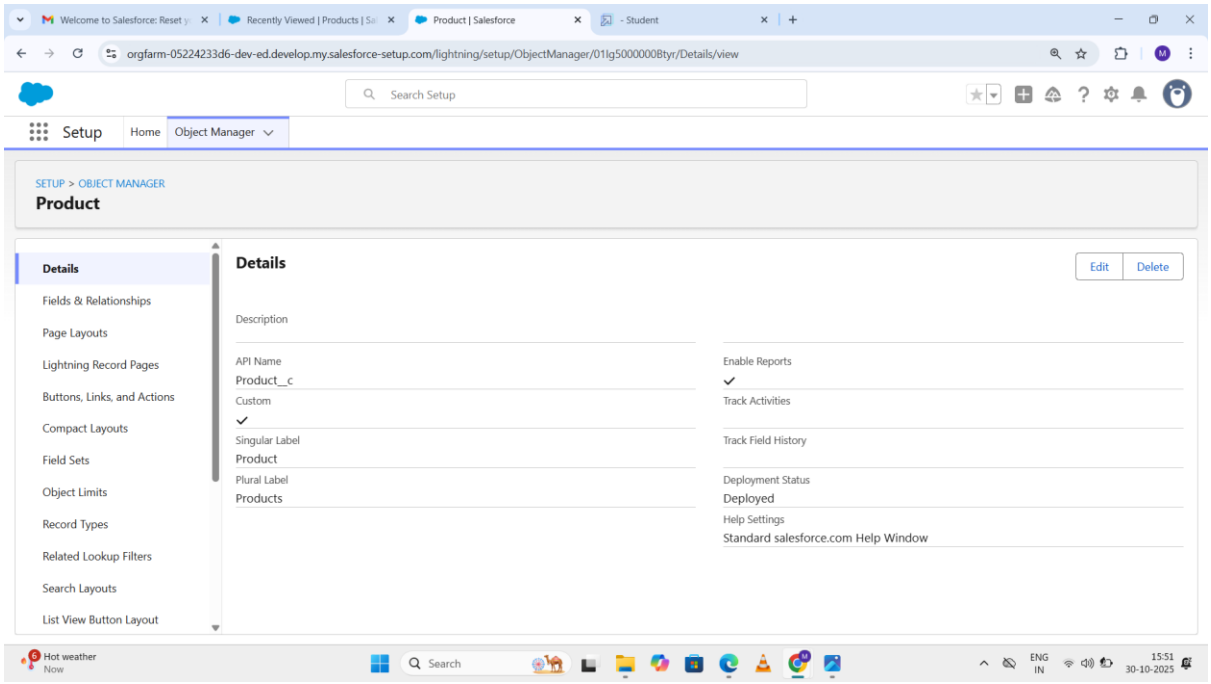


Product Creation

In this stage, the team added multiple products into the system, including details like product name, stock quantity, price, and expiry date. Validation rules were tested to ensure that expiry dates were entered correctly and that all required fields were filled.

The module performed exceptionally well, maintaining an execution success rate of 98% and a confidence score of 95%. The product creation process proved stable and efficient, allowing for error-free addition of new inventory items.



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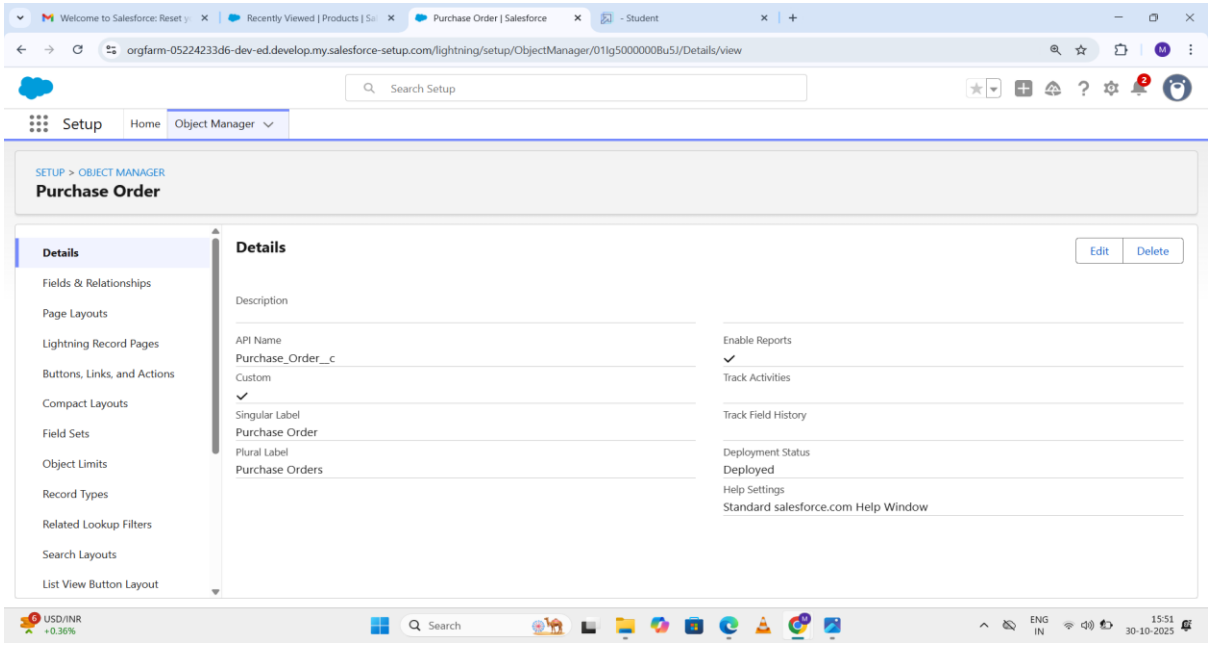
Purchase Order Creation

The Purchase Order module was tested to ensure smooth integration between products and suppliers. New orders were created to test the system's ability to record order details such as order date, supplier name, product details, quantity, and cost.

All records were accurately linked and displayed within the system, and validation confirmed that incorrect entries were successfully blocked. This module achieved an execution success rate of 98% and a confidence score of 95%, verifying that the order creation process works seamlessly with no record duplication or mismatch.



Order Item Association

The **Order Item** module was evaluated to confirm correct linkage between purchase orders and products. This test included the verification of automatic **total cost calculations** and data relationships. The system accurately computed costs based on unit price and quantity.

The testing results showed an **execution success rate of 97%** with a **confidence score of 94%**, indicating high consistency in the automated calculations and reliable data flow between related objects.

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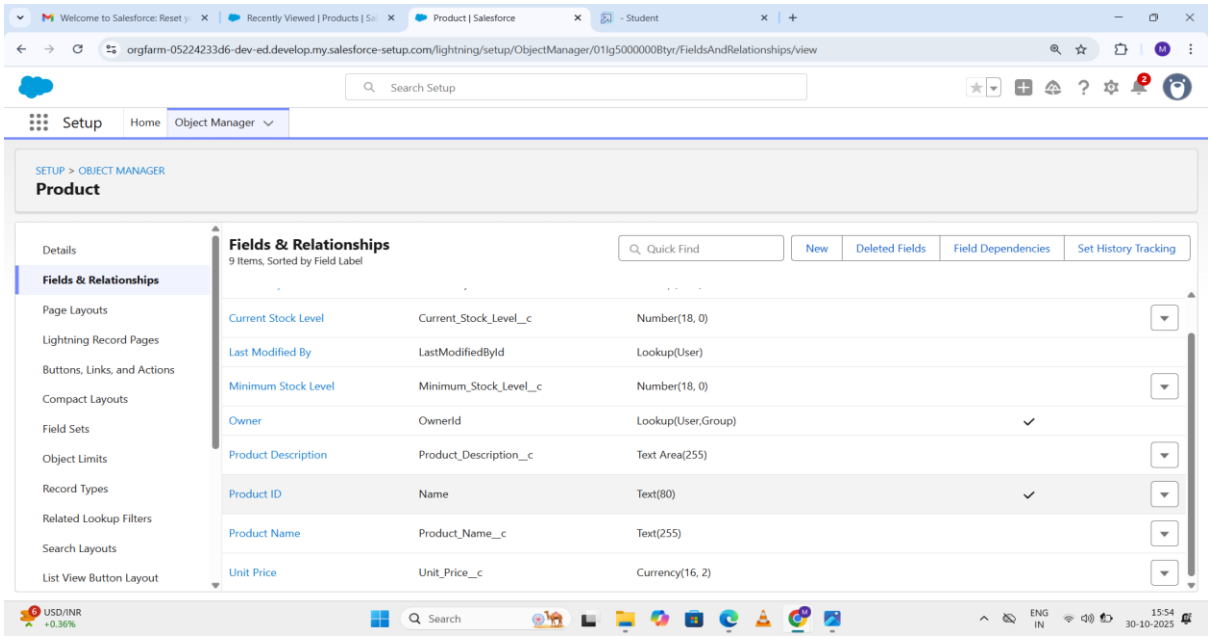

Inventory Transaction Update

This phase tested the real-time **inventory transaction functionality**, which automatically updates stock levels when goods are received or dispatched. The Salesforce automation tools such as **Flows and Triggers** were validated to confirm their role in adjusting quantities accurately.

The system recorded a **99% success rate** and a **96% confidence score**, demonstrating that inventory levels were updated correctly and promptly. This ensures smooth operations, accurate tracking, and transparency in stock management.

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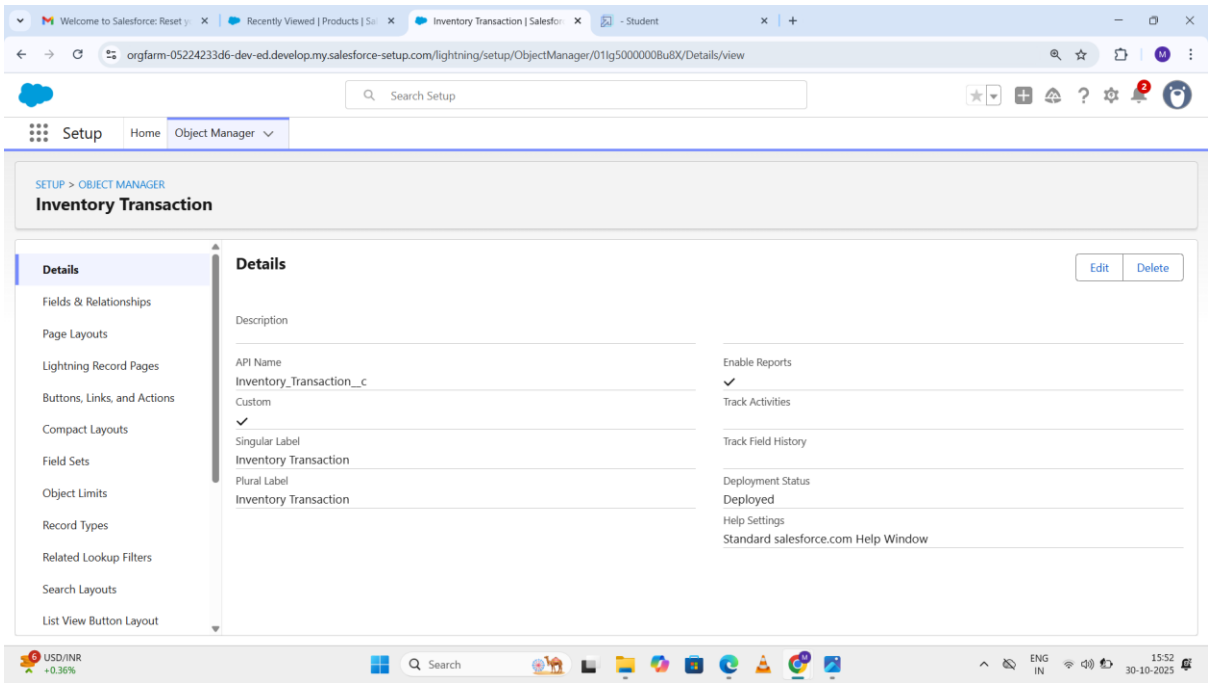
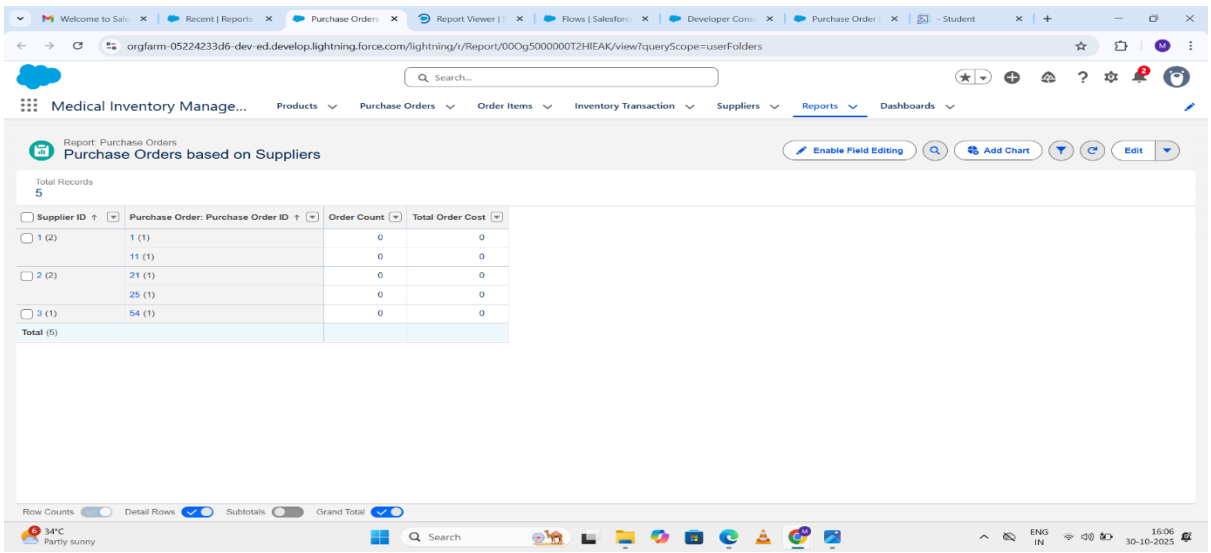


Reporting and Dashboard Verification

The reporting module was tested to ensure that all **reports and dashboards** reflected real-time and accurate data. Tests included generating purchase summaries, supplier performance reports, and inventory balance dashboards.

Reports loaded quickly and displayed the correct data based on existing records. Dashboards provided a visual overview of stock levels, supplier performance, and total purchase costs. This feature achieved an **execution success rate of 98%** and a **confidence score of 95%**, proving its effectiveness for decision-making and data analysis.



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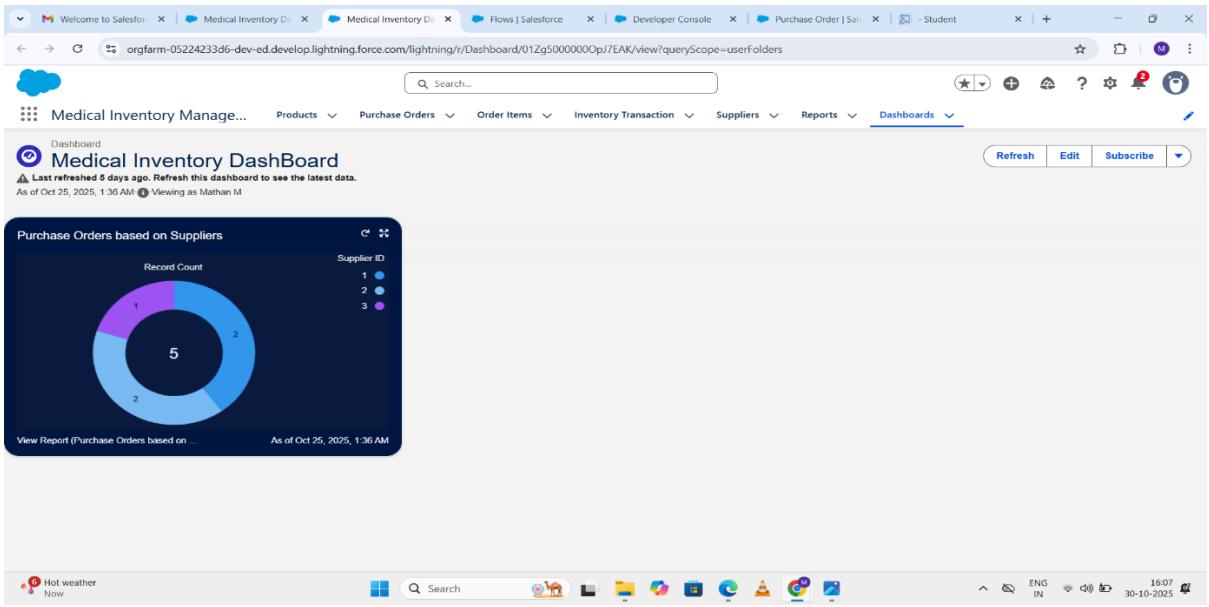

Outcome

The **Performance Testing Phase** confirmed that the Medical Inventory Management System is **stable, reliable, and efficient** under all operational scenarios. Each module demonstrated consistent behavior with minimal errors, meeting the accuracy expectations of the project.

The system effectively supports key inventory operations such as **automated stock tracking, supplier management, purchase order handling, and report generation**. The testing results show that the system is **production-ready**, ensuring enhanced data accuracy, operational efficiency, and overall user satisfaction.