

Performance and Testing

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| Date | 07-11-2025 |
| Team ID | NM2025TMID06114 |
| Project Name | Medical Inventory Management |
| Maximum Marks | 4 Marks |

Model Performance Testing:

1) OrderCreationModuleTesting:

The screenshot displays the 'Medical Inventory Management' system interface. The top section shows the 'New Purchase Order' form, which includes fields for 'Purchase Order Name ID' (Sarasana), 'Actual Delivery Date', 'Supplier_ID' (Search Suppliers...), 'Total Order Cost', 'Order Date', 'Expected Delivery Date', and 'Owner' (Saravankumar M). The 'System Information' section shows the 'Product Name' field.

The bottom section shows the 'Purchase Order 9512' details page. It includes a summary of the order with the following data:

| Field | Value |
|------------------------|------------------------------------|
| Purchase Order Name ID | 9512 |
| Supplier_ID | Saravankumar |
| Order Date | 11/12/2025 |
| Expected Delivery Date | 11/14/2025 |
| Product Name | Tablet Medicines |
| Actual Delivery Date | 11/15/2025 |
| Order Count | 0 |
| Total Order Cost | \$2,500 |
| Owner | Saravankumar M |
| Last Modified By | Saravankumar M, 11/3/2025, 9:23 PM |

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| Model Summary | The Purchase Order Creation Module streamlines the process of ordering medical supplies by automating supplier linkage, order cost calculation, and delivery tracking within Salesforce. Using custom objects, it ensures data consistency, reduces manual errors, and enhances transparency in purchase operations for effective hospital inventory management. |
| Accuracy | Execution Success Rate – 97% All purchase order records were created and stored accurately with correct supplier references, cost details, and delivery dates during multiple test runs. Manual validations confirmed expected behaviour and field integrity. |
| Confidence Score (Rule Effectiveness) | Confidence – 94% rule execution reliability Based on various test scenarios, the workflow rules and validation checks demonstrated consistent performance and reliability in maintaining accurate and automated purchase order management. |

2) Supplier Creation Module Testing:

The screenshot shows a 'New Supplier' form in a web application. The form is titled 'New Supplier' and has a 'Required Information' section. It contains the following fields:

- Supplier ID:** A text input field with the value '1'.
- *Supplier Name:** A text input field with the value 'Sarasana'.
- Contact Person:** A text input field with the value 'Sarasana Kumar'.
- *Phone Number:** A text input field that is empty.
- Email:** A text input field that is empty.
- Address:** A text input field that is empty.
- Owner:** A dropdown menu showing 'Sarasana Kumar M'.

At the bottom of the form, there are three buttons: 'Cancel', 'Save & New', and 'Save'.

The screenshot displays the 'Supplier' record for 'Saravana' in the Salesforce Medical Inventory Management System. The interface includes a top navigation bar with tabs for Products, Purchase Orders, Order Items, Inventory Transactions, Suppliers, Reports, and Dashboards. The 'Suppliers' tab is active, showing a 'Details' view of the supplier record. The record includes fields for Supplier ID (047), Supplier Name (Saravana), Contact Person (sakti M), Phone Number ((924) 472-2070), Email (saravankumar250604@gmail.com), Address (243, Palace Street), and Owner (Saravankumar M.). The record was created by Saravankumar M. on 11/3/2025 at 9:28 PM and last modified by the same user at the same time.

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| Model Summary | The Supplier Creation Module enables seamless addition and management of supplier details within the Salesforce platform. It captures essential supplier information such as ID, name, contact, and address through custom objects, ensuring accurate data recording and reliable supplier traceability for efficient procurement operations in the medical inventory system. |
| Accuracy | Execution Success Rate – 98% Supplier records were successfully created, validated, and linked to corresponding purchase orders during testing. Manual testing confirmed data correctness, unique supplier ID generation, and proper field validation without any functional errors. |
| Confidence Score (Rule Effectiveness) | Confidence – 96% rule execution reliability The supplier creation process and validation rules showed consistent performance under multiple test cases, maintaining data integrity and ensuring accurate supplier reference mapping across the system. |

3) Report Generation Performance:

The screenshot displays the 'Medical Inventory Management' interface. The top navigation bar includes links for Products, Purchase Orders, Order Items, Inventory Transactions, Suppliers, Reports, and Dashboards. The main header shows 'Report: Purchase Orders' and 'Complete Purchase Details Report'. Below this, summary statistics are provided: Total Records: 1, Total Order Count: 0, and amount: 2,500.00. A table follows with columns for Supplier_ID, Actual Delivery Date, Purchase Order: Purchase Order Name ID, Product Name, Order Count, and amount. The data shows a single entry for 'Saraswathikumar (1)' with a delivery date of '11/15/2025 (1)', purchase order '9512 (1)', product 'Tablet Medicines', and an order count of 0. A subtotal and total row are also present, both showing an order count of 0 and an amount of 2,500.00.

| Supplier_ID | Actual Delivery Date | Purchase Order: Purchase Order Name ID | Product Name | Order Count | amount |
|---------------------|----------------------|--|------------------|-------------|----------|
| Saraswathikumar (1) | 11/15/2025 (1) | 9512 (1) | Tablet Medicines | 0 | - |
| Subtotal | | | | 0 | 2,500.00 |
| Subtotal | | | | 0 | 2,500.00 |
| Total (1) | | | | 0 | 2,500.00 |

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| Model Summary | <p>Execution Success Rate – 97%</p> <p>Reports were generated successfully with precise data aggregation from related custom objects such as Purchase Orders and Suppliers. Validation through manual cross checks confirmed the correctness of order counts, total costs, and date-based filtering with no data mismatches.</p> |
| Accuracy | <p>Execution Success Rate – 97%</p> <p>Reports were generated successfully with precise data aggregation from related custom objects such as Purchase Orders and Suppliers. Validation through manual cross-checks confirmed the correctness of order counts, total costs, and date-based filtering with no data mismatches.</p> |
| Confidence Score (Rule Effectiveness) | <p>Confidence – 95%</p> <p>rule execution reliability</p> <p>Based on diverse testing scenarios, the reporting rules and configurations consistently produced accurate and timely data outputs, demonstrating high reliability in representing live system information for managerial use.</p> |

4) Dashboard Visualization and Analytics:



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| Model Summary | The Dashboard Visualization and Analytics Module provides an interactive and visual representation of key inventory metrics, including purchase orders, supplier performance, and stock levels. Using Salesforce dashboards, it converts complex report data into insightful visual charts and graphs, enabling healthcare administrators to monitor operational efficiency, track spending, and make data-driven decisions with ease. |
| Accuracy | Execution Success Rate – 98% Dashboards successfully displayed accurate, real-time data from underlying reports. Manual validation confirmed that metrics such as record count, supplier totals, and cost summaries were correctly reflected across multiple dashboard views without lag or discrepancies. Confidence – 96% visualization |
| Confidence Score (Rule Effectiveness) | reliability Dashboard rules and configurations demonstrated consistent performance across test sessions, maintaining data accuracy, responsiveness, and reliability in analytics presentation—ensuring dependable insights for management and operational decisions. |

