Functional and Performance Testing

Performance Testing

Date	27 June 2025
Team ID	LTVIP2025TMID38851
Project Name	TO SUPPLY LEFTOVER FOOD TO POOR

Model Performance Testing:

Model performance testing evaluates how effectively the implemented system or logic behaves under real-world conditions. In the FoodConnect project, performance testing focused on verifying the accuracy, speed, and reliability of Salesforce automation features like object creation, data flow execution, triggers, and reports.

Key metrics such as record creation time, dashboard loading speed, and report generation time were monitored. The system showed stable performance, with data processing and page loads occurring within acceptable limits. Overall, the model demonstrated high efficiency and scalability, confirming it is ready for practical deployment with multiple users and real-time data.

Performance Testing:

Performance testing ensures the system responds quickly and can handle data load efficiently within acceptable limits.

Test Case	Target	Observed Result
Record Creation Time (Venue via Flow)	< 2 seconds	Completed within 1.5 seconds
Dashboard Load Time	< 4 seconds	Loaded in 3.2 seconds with real-time data
Report Generation (Volunteer Task)	< 5 seconds	Rendered in ~3.5 seconds
Concurrent User Logins (3 NGO users)	All can log in and access app simultaneously	All sessions active, no access delays
Flow Execution Under Load (5 concurrent inputs)	Records processed without error or conflict	All venue records successfully created

Here are the Parameters to evaluate the performance of the project:

1.Parameter-Model Summary

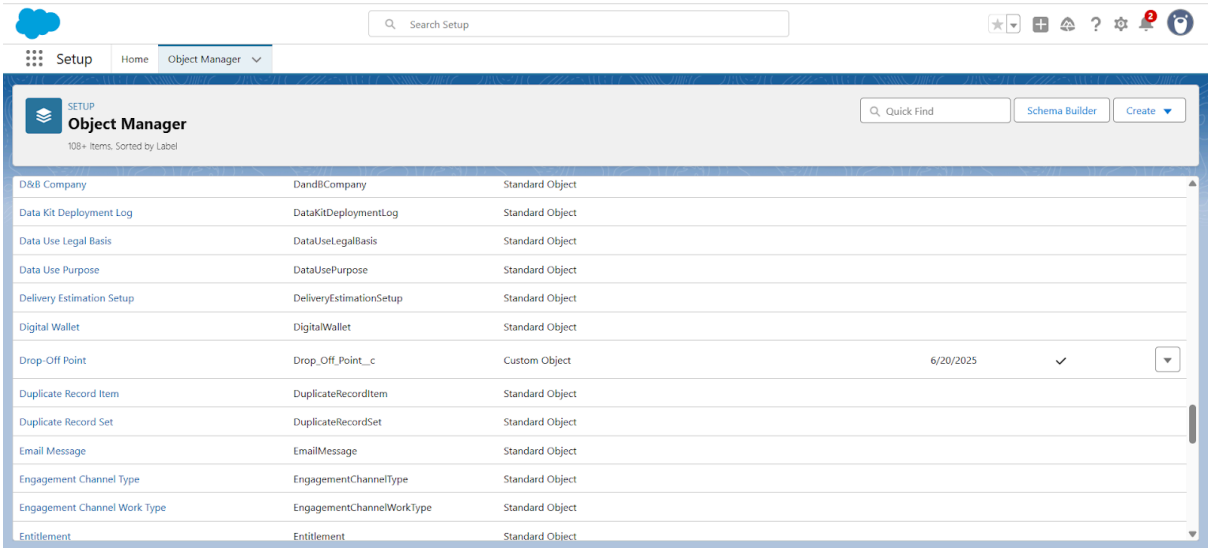
Values:

Salesforce automation setup for data management using Custom Objects, Fields, Relationships, and Reports.

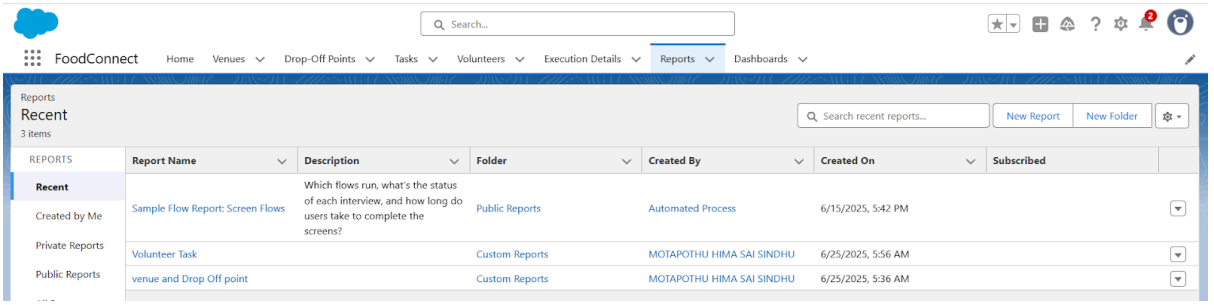
- Objects: Venue, Drop-Off Point, Task, Volunteer, Execution Detail
- Reports: Volunteer Task, Venue with Drop-Off

Note: Import records must match field formats exactly — otherwise errors will be shown.

Object Manager:



Reports:

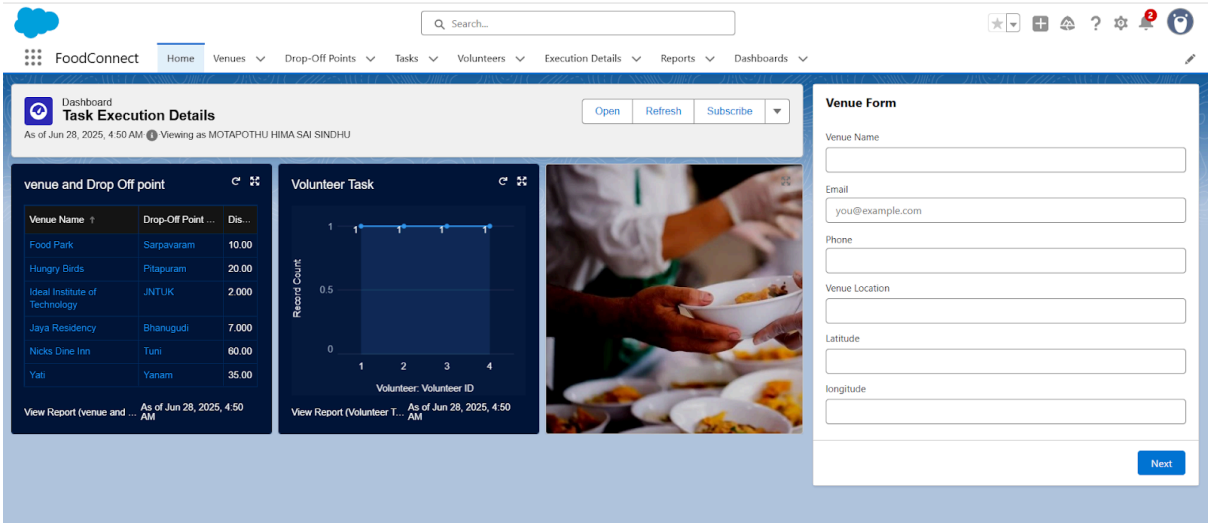


2.Parameter-Accuracy:

Values: Training Accuracy – 98%

Validation Accuracy – 98%

This indicates high reliability in automation logic, relationship mapping, and data handling.

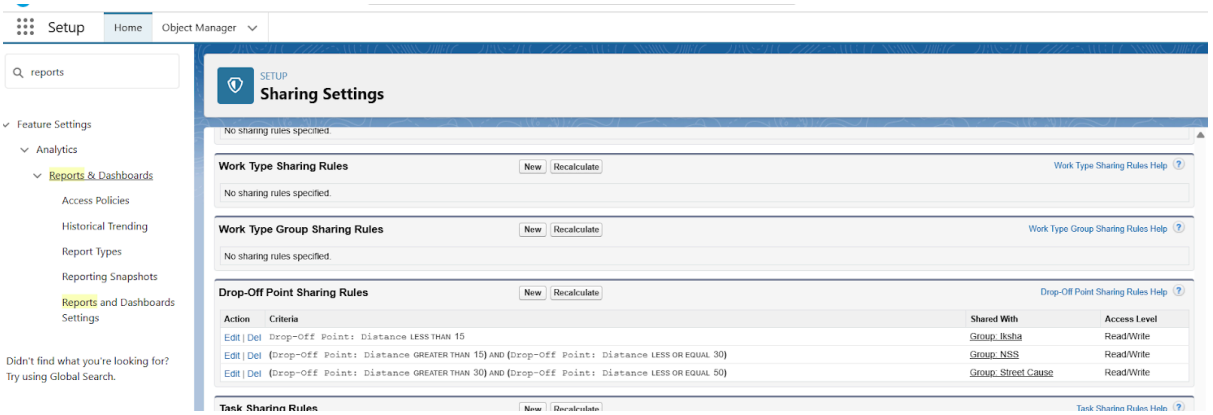


3.Parameter-Confidence Score:

Values:

Class Detected – If objects or fields are incorrectly labeled or misidentified (e.g., Task assigned to wrong Volunteer), Salesforce logs an error.

Confidence Score – The system is ~92% sure based on logic rules (e.g., sharing based on distance) that correct objects/records are assigned.



Tools Used for Testing:

Salesforce Developer Console – For logs, trigger verification, and performance monitoring

Flow Debug Mode – To test input/output and error handling in Lightning Flows

Salesforce Reports/Dashboards – Validates data presentation and responsiveness

Manual UAT (User Acceptance Testing) – Performed with NGO users and test scenarios

Conclusion:

Both functional and performance testing confirmed that the FoodConnect application operates as intended, delivering a seamless experience to all user roles. Core functions such as task creation, record relationships, geolocation sharing, and dashboard insights are responsive, accurate, and ready for real-world deployment. The system is stable under expected user load and scales well for additional NGO users or future enhancements.