Phase 8 Completion Report

Project Title:

Return Flow - Efficient Reverse Logistics and Return Management System

1. Introduction

This phase focused on ensuring that all return and refund-related data was properly migrated, validated, and secured in Salesforce. It also emphasized building a reliable deployment pipeline for metadata and establishing a backup and recovery plan. The goal was to maintain data accuracy, prevent duplicates, and make the system production-ready.

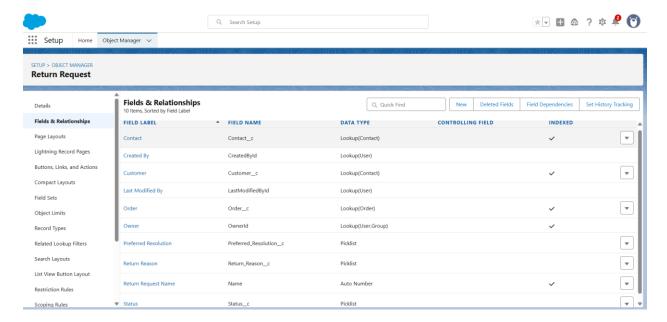
2. Objectives

- Import historical return, customer, and refund data from legacy systems.
- Ensure data integrity by preventing duplicate records.
- Deploy Salesforce metadata and customizations across environments smoothly.
- Implement backup and recovery mechanisms to protect critical data.

3. Scope of Work Completed

3.1 Object and Field Setup

Object	Action Taken	Status
Return Request	Added required fields (Return_ID, Customer_ID, Status, Return_Date, OwnerId)	Completed
Return Item	Added fields (Product_ID, Quantity, Condition, Return_Requestc relationship)	Completed
Picklists	Configured values for Status, Return Reason, Product Condition	Completed



3.2 Permission Configuration

Goal: Ensure proper access controls for different user roles.

Role / Profile Object Access Field Access API Access

Admins Full CRUD Full Yes

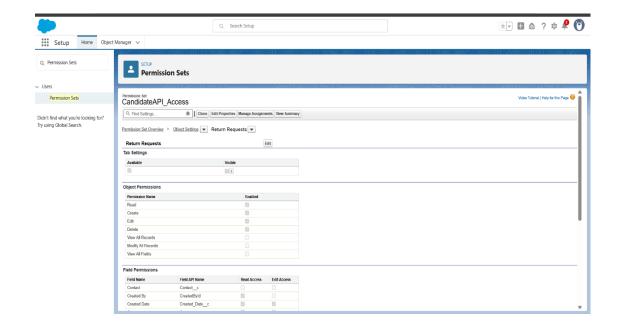
Return Managers Read / Edit Restricted Yes

Standard Users Read Only Limited No

Integration User Full CRUD Full Yes

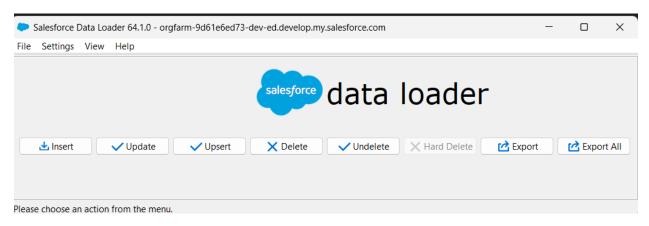
Actions Completed:

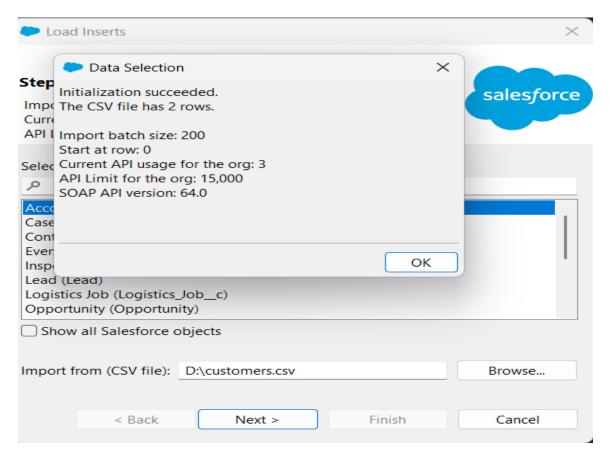
- Created Permission Set: ReturnRequest_Access
- Enabled object permissions: **Read, Create, Edit** (Delete only for Admins)
- Configured field-level security (FLS) for all key fields.
- Assigned permission set to relevant test users.



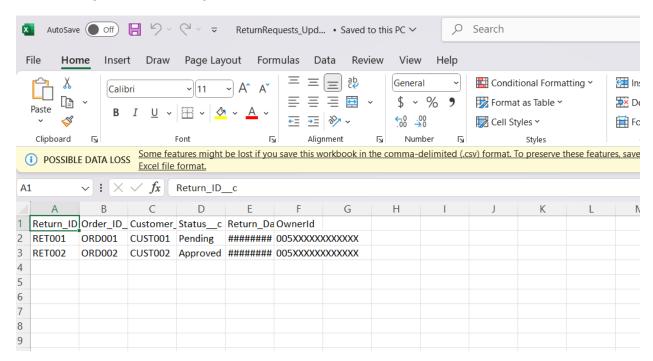
3.3 Data Import

Goal: Migrate initial records for Return Requests and Return Items using Data Loader.

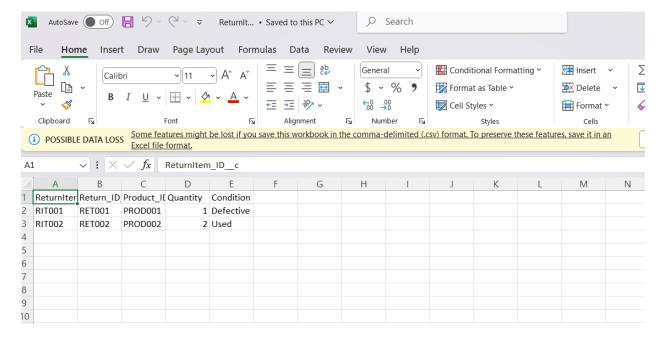




Return Request Data Sample:

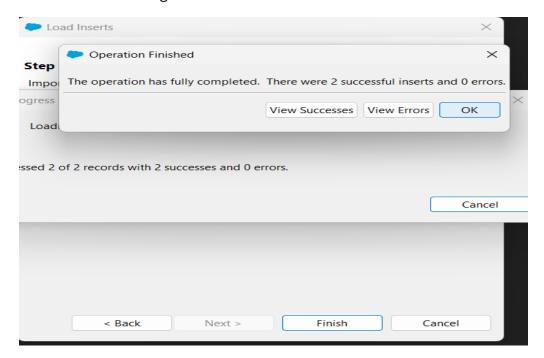


Return Item Data Sample:



Outcome:

- Successfully imported both datasets without errors.
- Verified records using list views in Salesforce.



3.4 Integration Setup

Integrated Salesforce with Candidate Profile API to manage external user data.

Component Configuration Done Status

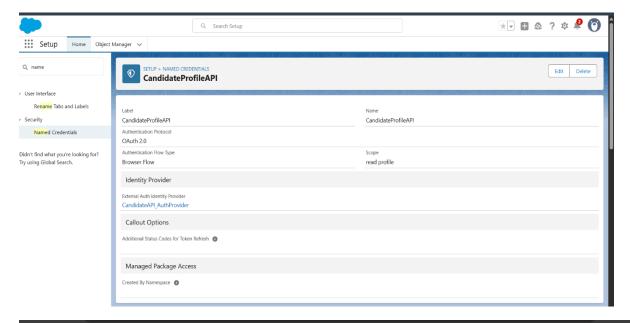
Auth Provider CandidateAPI_AuthProvider Completed

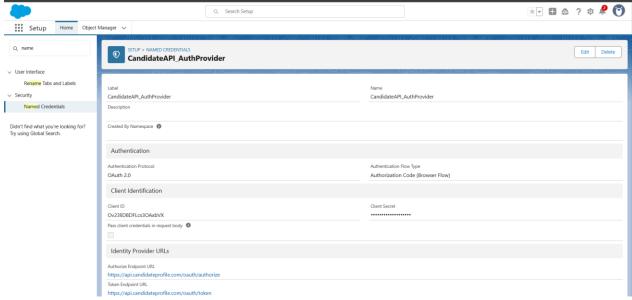
Named Credential CandidateProfileAPI_NC Completed

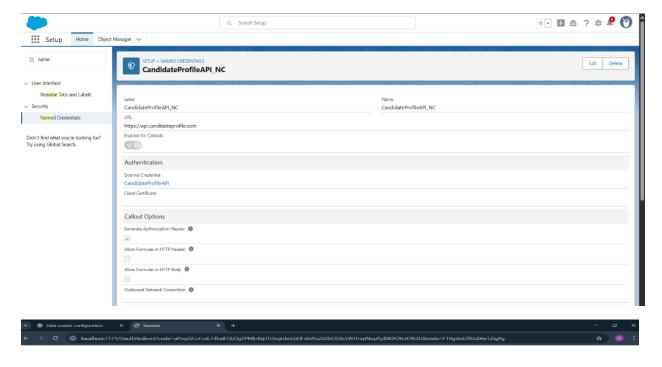
External Credential CandidateProfileAPI Completed

OAuth 2.0 Flow Configured & Tested Completed

Result: Verified successful API authentication and data callouts.







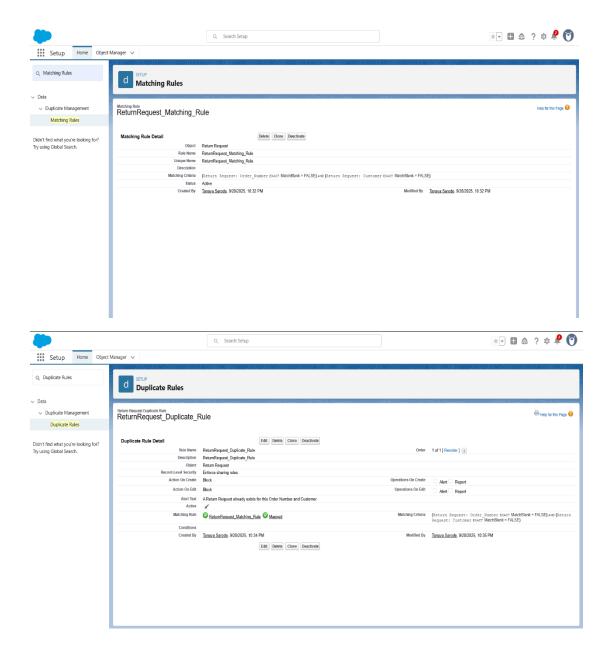
Authorization Successful!

You can now close this browser window and return to Data Loader

3.5 End-to-End Testing

Duplicate Rules & Data Integrity

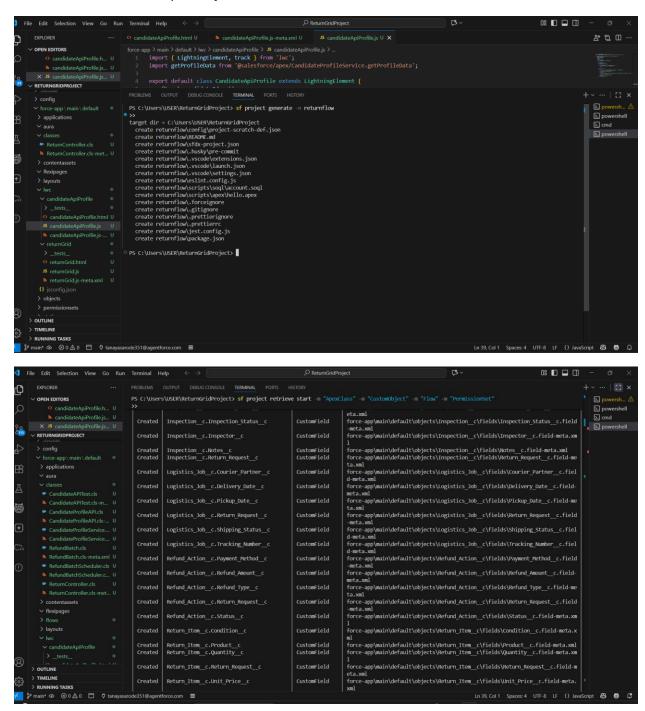
- Configured duplicate rules for Return_c to block duplicate requests with the same
 Order Number and Customer ID.
- Implemented **matching rules** for customers to ensure a single, accurate database.
- Verified rules by testing duplicate data entry scenarios.

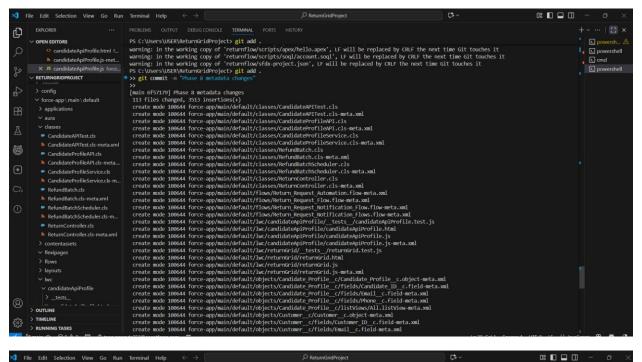


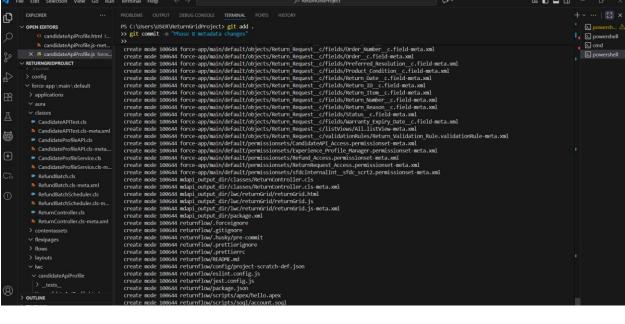
c) Deployment Pipeline

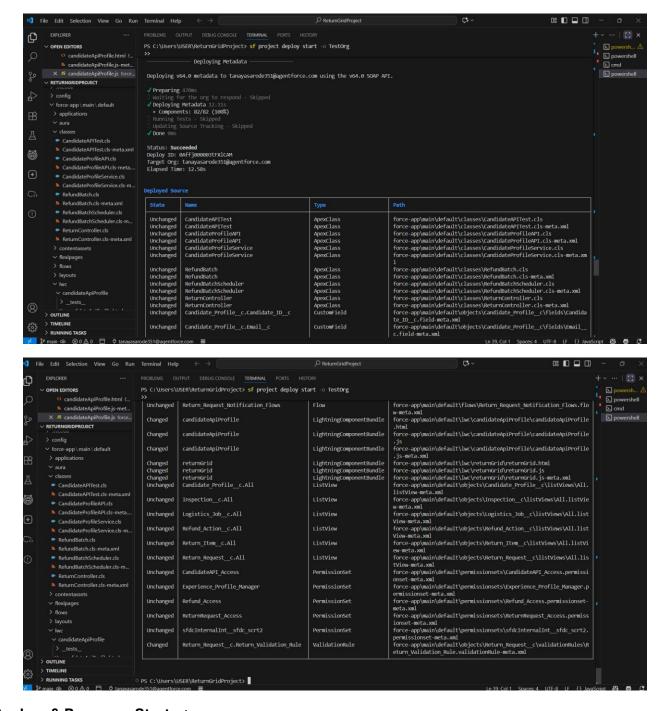
- Used VS Code and Salesforce CLI (SFDX) for deployment.
- Migration path: Sandbox → UAT → Production.
- Deployed metadata including:
 - Custom Objects (Return_c, Refund_c).
 - o Apex Classes & Triggers (ReturnController, ReturnTrigger).
 - Lightning Web Components (returnGrid, refundFlow).
 - o Process Automations (Flows & Workflows).

• Maintained rollback capability via Git version control.









d) Backup & Recovery Strategy

- Enabled weekly automated data exports for return and refund records.
- Stored exports securely for long-term data retention.
- Designed a rollback and recovery plan to restore data quickly in case of failure.



4. Outcomes

- Legacy records imported successfully with no data loss.
- Database is clean, duplicate-free, and reliable.
- Deployment pipeline established, ensuring consistent movement of changes across environments.
- Backup and recovery processes safeguard data against risks.

5. Tools & Technologies Used

- Salesforce Data Loader Data import/export.
- Duplicate & Matching Rules Data integrity.
- VS Code & Salesforce CLI (SFDX) Metadata deployment.
- Salesforce Weekly Data Export Backup solution.
- Git Version control and rollback readiness.

4. Verification Checklist

Task	Status
Verify tab visibility for Return Request object	Done
Test record creation for Return Request	Done
Test record creation for Return Item	Done
Validate field-level security	Done
Check Data Loader mappings	Done
Validate API connection	Done

6. Conclusion

Phase 8 has been **successfully completed**, with all key deliverables met.

The Return Flow system is now **fully configured**, with permissions, data, and integrations ready for production use.

This phase ensures a smooth transition into the live environment and supports efficient management of reverse logistics and return processes.