# Smart E-Commerce CRM – Customer Engagement & Order Management System

# Phase 8: Data Management & Deployment

Overview

This phase explains how to manage Salesforce data using Data Loader for bulk operations and how to deploy metadata using Visual Studio Code (VS Code) with manifest-based deployment.

#### Part 1: Data Loader

Step 1: Install Data Loader

- Download Data Loader from Salesforce Setup.
- Install on your machine.

## Step 2: Login to Data Loader

- Open Data Loader and choose Production or Sandbox.
- Enter Username, Password + Security Token.

### Step 3: Perform Data Operations

- Insert: Import new Leads, Accounts, Orders, and Cases from CSV.
- Update: Modify existing customer data and order records.
- Upsert: Ensure product catalog and inventory sync without duplicates.

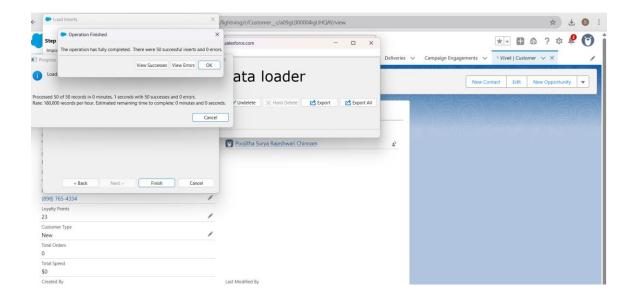
#### Step 4: Review Results

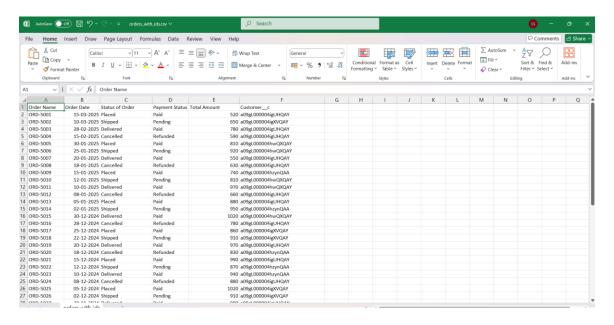
- Data Loader provides Success.csv and Error.csv files.
- Correct errors and re-upload if necessary.

```
Microsoft Windows [Version 10.0.26100.6584]
(c) Microsoft Corporation. All rights reserved.
D:\Downloads\dataloader_v64.1.0>java -jar DataLoader-64.1.0.jar
 *********************
**
                   Salesforce Data Loader
    Data Loader v64 is a Salesforce supported Open Source project to
help you import data to and export data from your Salesforce org.
It requires Java JRE 17 or later to run.
                                                                                      **
**
**
    Github Project Url:
https://github.com/forcedotcom/dataloader
Salesforce Documentation:
**
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                                                                                      **
**
           https://help.salesforce.com/articleView?id=data_loader.htm
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```

#### **Authorization Successful!**

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

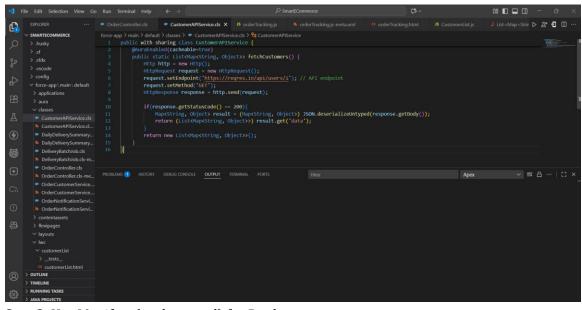




## Part 2: Deployment Using VS Code

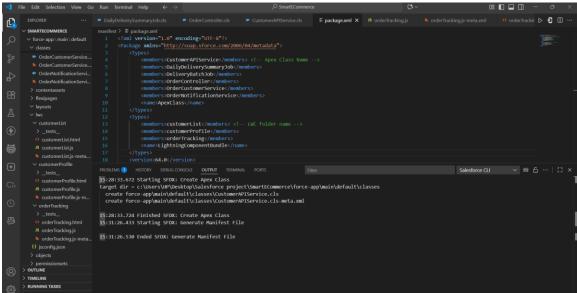
Step 1: Prepare VS Code Project

- Open Salesforce DX project in VS Code.
- Ensure all LWCs, Apex classes, and metadata are stored in force-app/main/default.



Step 2: Use Manifest (package.xml) for Deployment

- Define the components to deploy (Apex Classes, LWCs, Objects, Custom Settings).



# Step 3: Deploy to Salesforce Org

- Right-click manifest/package.xml → SFDX: Deploy Source to Org.
- Check Output Panel for success or error logs.

## Step 4: Verify Deployment

- Login to Salesforce Org.

- Validate LWCs, Apex classes, workflows, and custom objects.

