# **Project Title: Pet Adoption Tracker**

Phase 8: Data Management & Deployment Documentation

## Objective

Phase 8 validates the operational readiness of the Pet Adoption Tracker. This includes establishing procedures for data quality, data backup, and the secure, systematic deployment of all developed metadata (Apex, LWC, Custom Objects) from the development environment to a production environment using industry-standard tools.

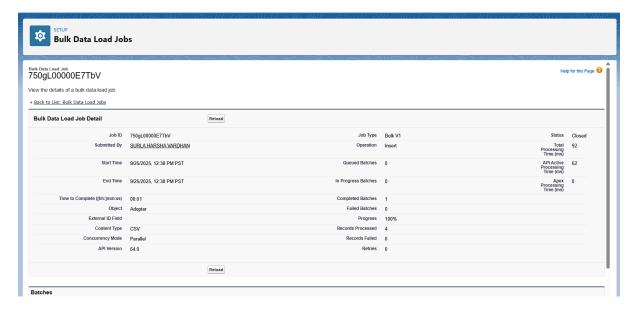
#### A. Data Management & Quality Control

#### 1. Data Loader Usage

**Purpose:** Data Loader is essential for handling large-volume data imports/exports and managing complex record relationships, which is required for loading initial Pet\_\_c data (linked to Shelter\_\_c Accounts) and for performing regular data backups.

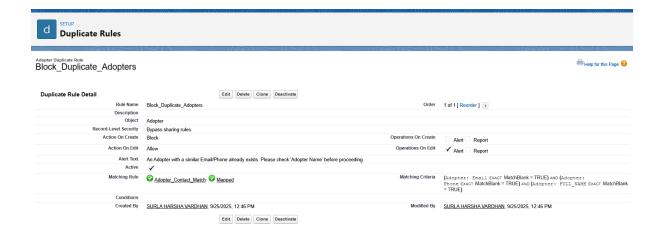
# 2. Data Import Wizard Application

**Purpose:** Document the use of the simpler Data Import Wizard for non-complex objects, like loading initial lists of Volunteers or Adopters who do not have complex initial relationships.



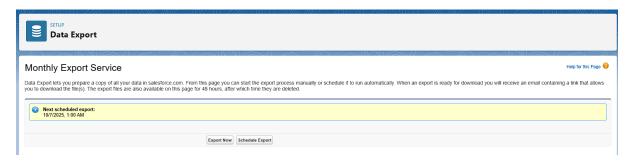
# 3. Duplicate Rules Enforcement

**Purpose:** To enforce data hygiene on the critical Adopter\_\_c object, preventing staff from creating redundant records based on contact information.



## 4. Data Export & Backup Strategy

**Purpose:** To demonstrate a plan for disaster recovery by scheduling automated backups of transactional data



## 5. VS Code & SFDX (Primary Deployment)

**Purpose:** To confirm that all programmatic assets (Apex classes, Triggers, LWCs) are managed as source code and deployed using the professional Salesforce Developer Experience (SFDX).



## 6. Unmanaged vs Managed Packages

**Purpose:** To articulate how the solution could be packaged for distribution or transfer, demonstrating an understanding of packaging differences.

**Unmanaged Package Rationale -** State that the project will be delivered as an **Unmanaged Package** for the final capstone review, allowing reviewers/recipients to examine and modify all components.

Managed Package Rationale -State that if the app were to be commercialized or placed on the AppExchange, it would be converted to a Managed Package to protect the intellectual property (Apex/LWC code) and facilitate future upgrades

# 7. ANT Migration Tool (Alternative Method)

**Purpose:** To show awareness of an alternative, script-based deployment tool, often used for continuous integration.

**ANT Tool Rationale** - Explain that while SFDX was the primary tool, the ANT Migration Tool remains an option for highly automated, XML-based deployments and integration with legacy CI/CD systems, providing a complete picture of available deployment methods.