

## Phase 8 — Data Management & Deployment

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### 1. Objective

Phase 8 covers best practices for **managing Salesforce data and deploying customizations** across environments. This includes importing/exporting data, handling duplicates, and deploying metadata.

### 2. Implementation in Smart Lost & Found

#### ◆ Data Import

- For testing and demonstration, the **Data Import Wizard** can be used to bulk upload *Lost Items*, *Found Items*, and *Claim Requests*.

#### ◆ Duplicate Management

- **Duplicate Rules** can be configured to prevent users from entering the same Lost or Found item multiple times, improving **data quality**.

#### ◆ Deployment

- The app can be deployed from **Sandbox** → **Production** using **Change Sets** to move *Apex classes*, *triggers*, and *custom objects*.

#### ◆ Other Tools

- Features like **Data Loader**, **ANT Migration Tool**, **VS Code & SFDX**, and **managed/unmanaged packages** are **not required** for this project, as it is deployed internally within Salesforce.

### 3. Conclusion

- Phase 8 features ensure proper **data integrity, testing, and deployment practices**.
- Only the **essential tools** (*Data Import Wizard*, *Duplicate Rules*, *Change Sets*) are utilized for Smart Lost & Found.
- **Advanced deployment tools and packages** are **not applicable** for this project's current scope.