3. Data Flow Diagrams (DFD)

3.1 Level 0 – Context Diagram

[External Systems]

↓

[Reconciliation System]

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[Admin Dashboard]
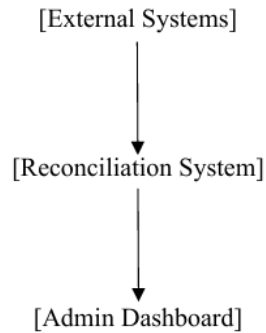
3.2 Level 1 – Process Flow

1. Data Extraction

   External Systems -> Reconciliation System

2. Data Transformation

   - Standardize formats

   - Remove duplicates

3. Record Matching

   - Compare key fields

   - Identify discrepancies

4. Discrepancy Handling

   - Flag mismatches

   - Notify admin

5. Reporting

   - Generate reconciliation summary

   - Export reports (CSV, Excel, PDF)

Entities & Relationships

Entity	Attributes	Relationships
Source_System	System_ID (PK), System_Name, Data_Type	1-to-Many → Data_Record
Data_Record	Record_ID (PK), System_ID (FK), Field1, Field2…FieldN, Status	1-to-1 → Reconciled_Record
Reconciled_Record	Reconcile_ID (PK), Record_ID (FK), Match_Status, Timestamp	Many-to-1 → Source_System
Admin	Admin_ID (PK), Name, Email, Role	1-to-Many → Notifications
Notification	Notification_ID (PK), Admin_ID (FK), Message, Timestamp, Status	Many-to-1 → Admin