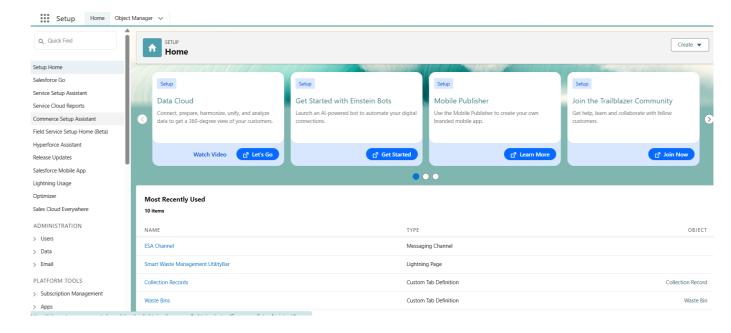
#### Smart Waste Management Tracker – Salesforce Project

#### **Phase 3: Data Modeling & Relationships**

#### Step 1: Goal of Phase 3

- Define data model for Waste Management.
- Create custom objects: WasteBin\_c and CollectionRecord\_c.
- Define fields, relationships, validation rules, and page layouts.
   Expected Outcome: Objects ready for record creation & data capture.



# Step 2: Create Custom Objects WasteBin\_c

Object Name: Waste Bin

Record Name: Waste Bin Name (Text)

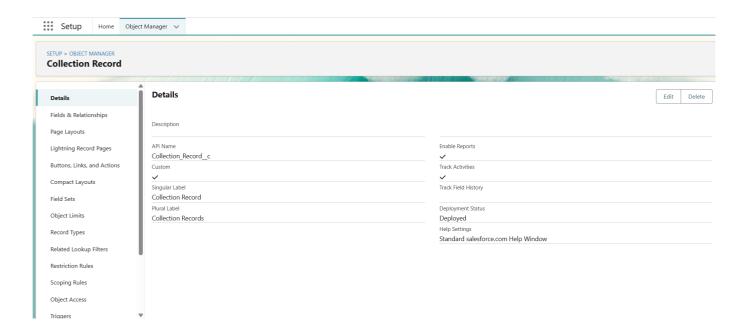
Optional: Allow Reports & Activities → ✓

Save.



#### CollectionRecord\_\_c

- Object Name: Collection Record
- Record Name: Collection Record Name (Text)
- Optional: Allow Reports & Activities → ✓
- Save.



## Step 3: Define Fields for WasteBin\_c

Field Label Data Type Notes

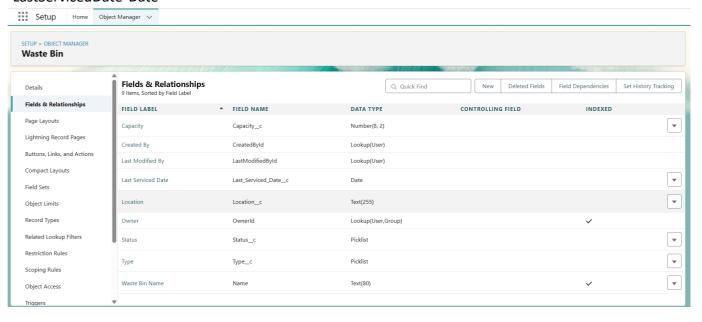
Location Text 255 chars

Type Picklist Recyclable, Organic, Non-Recyclable

Capacity Number Max 8,2

Status Picklist Empty, Full, Needs Maintenance

#### LastServicedDate Date -



#### Step 4: Define Fields for CollectionRecord\_c

Field Label Data Type Notes

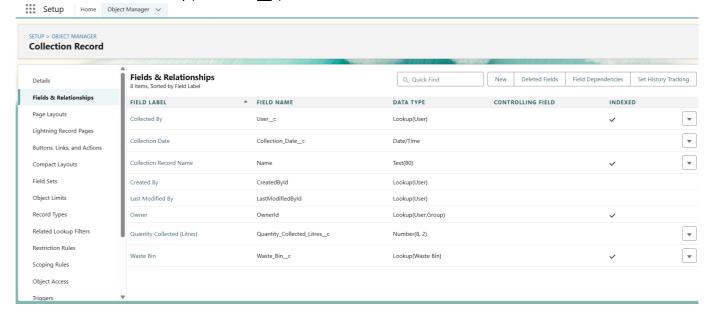
CollectionDate Date/Time -

CollectedBy Lookup(User) Optional filter: Collection Staff

QuantityCollected Number Max 8,2

Notes Text Area Optional

WasteBin Lookup(WasteBin\_c) Relates record to bin



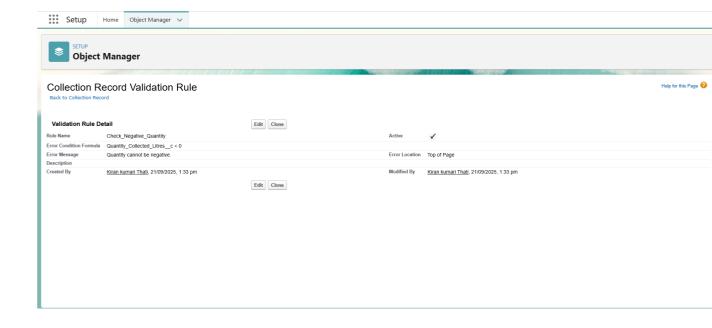
#### **Step 5: Validation Rule**

• Object: CollectionRecord\_\_c

Rule: QuantityCollected >= 0

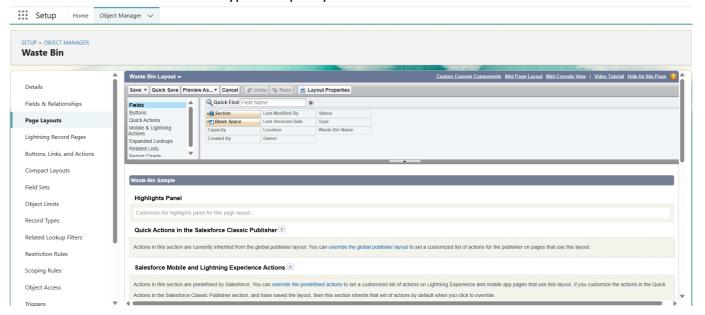
Error Message: "Quantity cannot be negative."

• Location: Top of page or specific field.



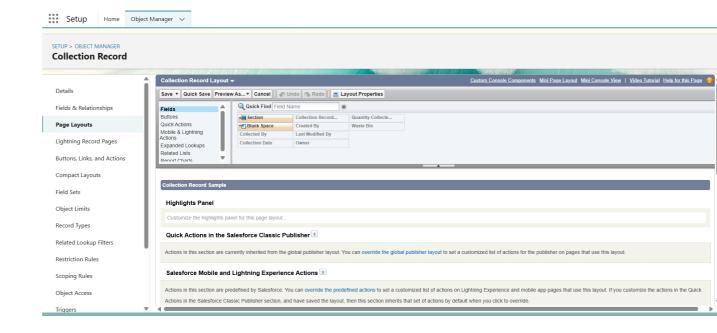
# Step 6: Page Layouts Waste Bin Layout

Fields order: Location → Type → Capacity → Status → LastServicedDate



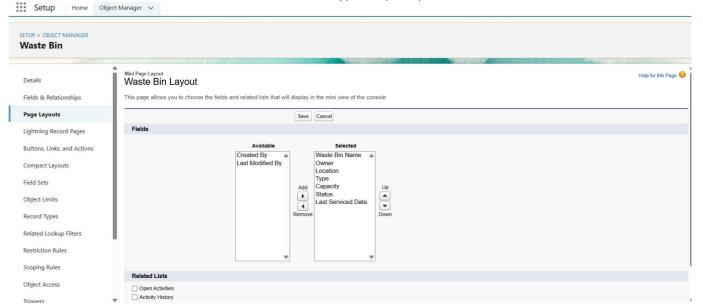
#### **Collection Record Layout**

- Fields order: CollectionDate → CollectedBy → QuantityCollected → WasteBin → Notes
- Effect: Record creation page neat and user-friendly.



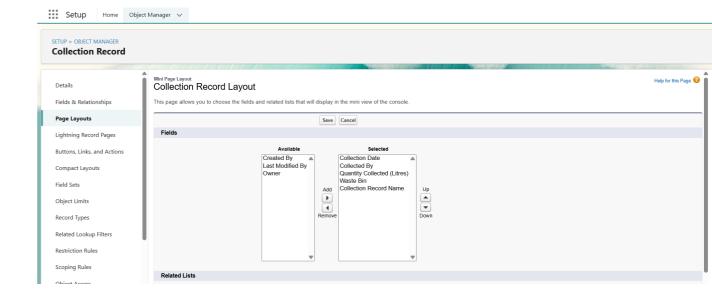
# Step 7: Mini Page Layouts (Optional) Waste Bin Mini Layout

• Fields: Waste Bin Name, Owner, Location, Type, Capacity, Status, LastServicedDate



#### **Collection Record Mini Layout**

• Fields: Collection Record Name, WasteBin, CollectedBy, QuantityCollected



### **Step 8: Relationships & Lookup Filters (Optional)**

CollectedBy → Lookup(User)

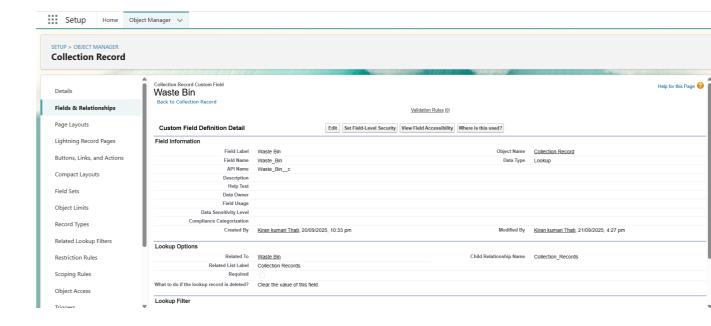
Scoping Rules

Optional filter: Only Collection Staff users Setup Home Object Manager 🗸 SETUP > OBJECT MANAGER **Collection Record** Collected By Fields & Relationships Custom Field Definition Detail Edit Set Field-Level Security View Field Accessibility Where is this used? Lightning Record Pages Field Label Collected By Object Name Collection Record Buttons, Links, and Actions Data Type Lookup API Name User\_c Description Help Text Field Sets Data Owner Field Usage Object Limits Data Sensitivity Level Record Types Created By Kiran kumari Thati, 20/09/2025, 10:31 pm Modified By Kiran kumari Thati, 21/09/2025, 4:22 pm Related Lookup Filters Lookup Options Child Relationship Name Collection\_Records Restriction Rules Related List Label Collection Records

WasteBin in CollectionRecord → Lookup(WasteBin\_c)

Required

Lookup Filter



### **Step 9: Expected Outcome (Phase 3 Completion)**

- Custom objects WasteBin\_c and CollectionRecord\_c created.
- All fields defined with proper data types.
- Page layouts & mini layouts arranged.
- Validation rules set.
- Ready for record creation & testing in Phase 4.