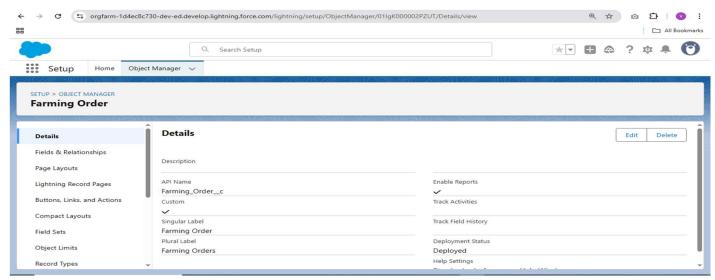
DATA MODELING AND RELATIONSHIPS – PHASE 3

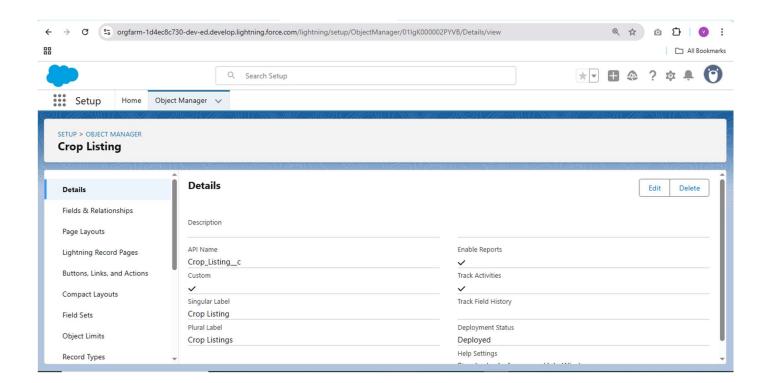
1. Standard & Custom Objects

Created core custom objects (Crop Listing, Buyer Requirement, Farming Order, Shipment, Payment, Feedback) along with using standard objects (Account, Contact) to model farmers and buyers.

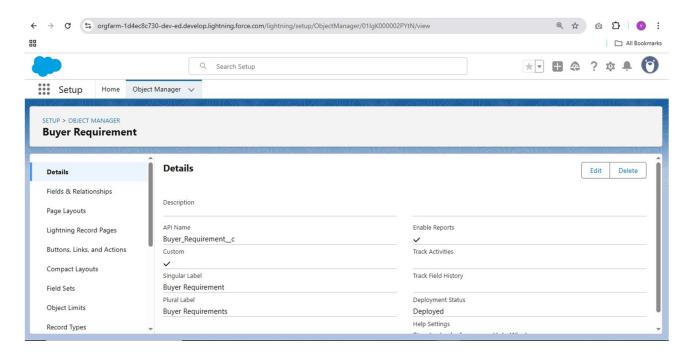
Farming Order Object



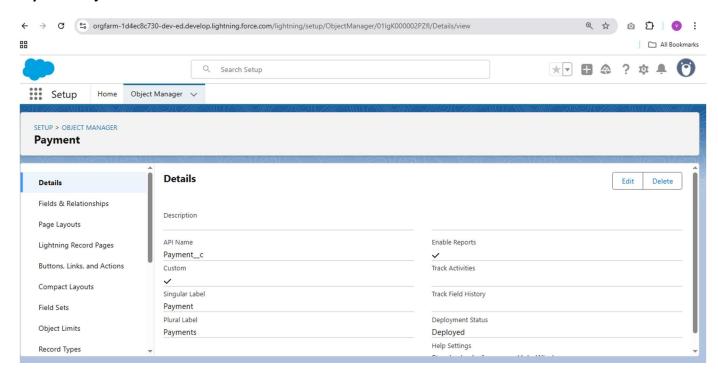
Crop Listing object



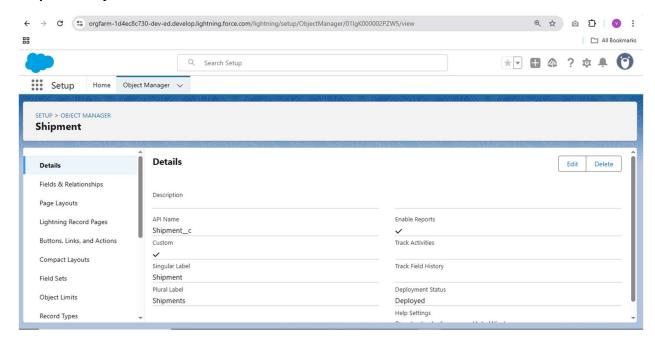
Buyer Requirement Object



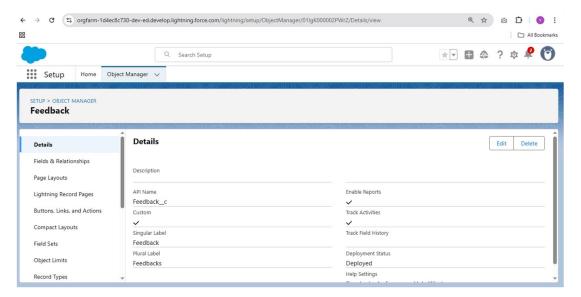
Payment object



Shipment object



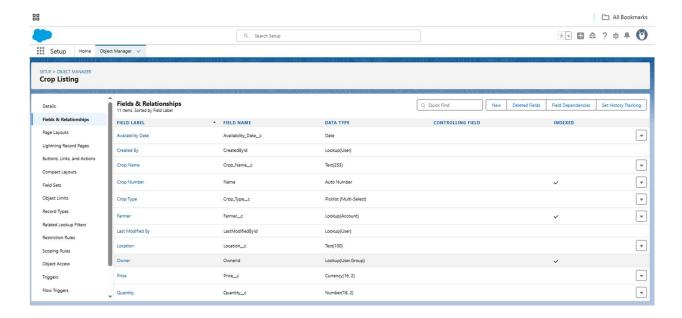
Feedback Object



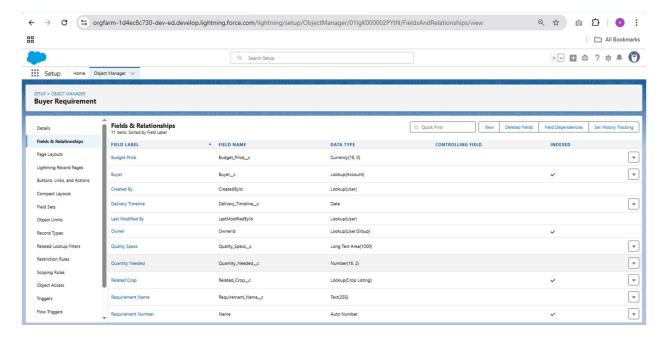
2. FIELDS

Defined essential fields for each object such as crop details, requirements, order status, payments, and feedback to capture all farming transaction data.

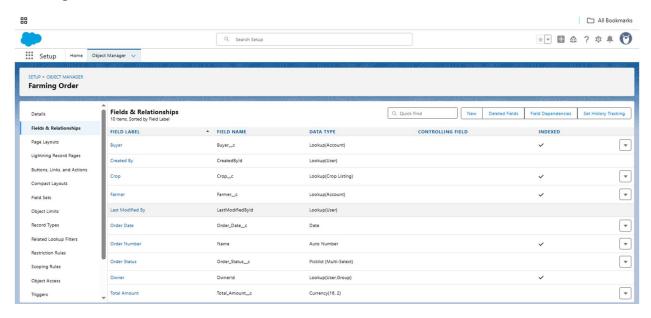
Crop Listings



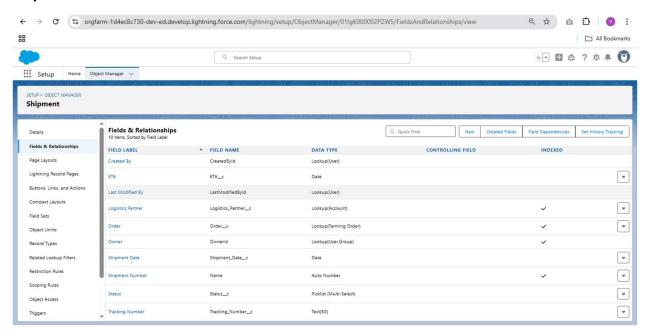
Buyer Requirements



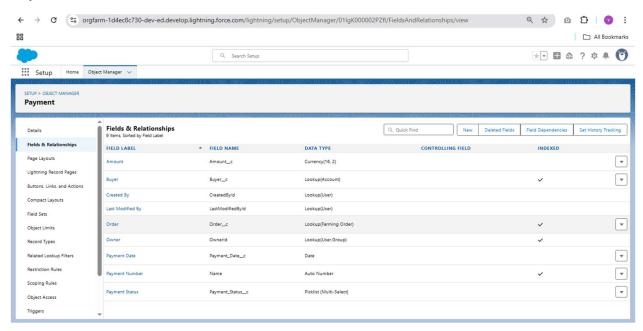
Farming Orders



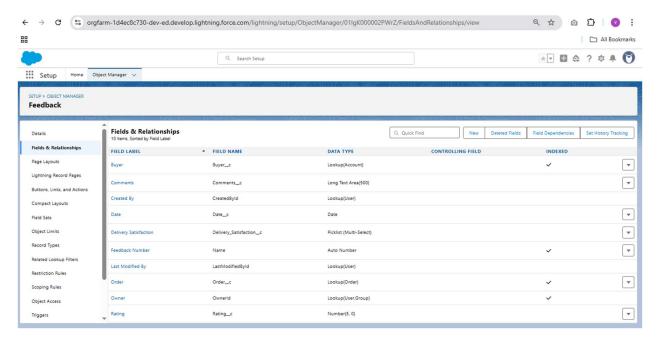
Shipment



Payment



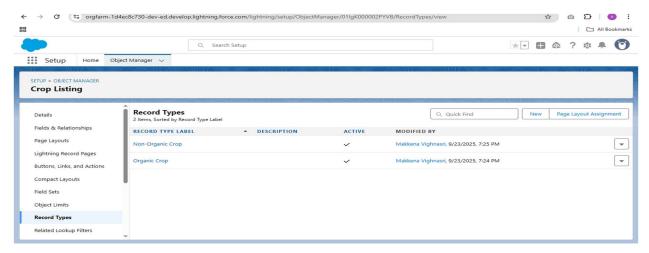
Feedback



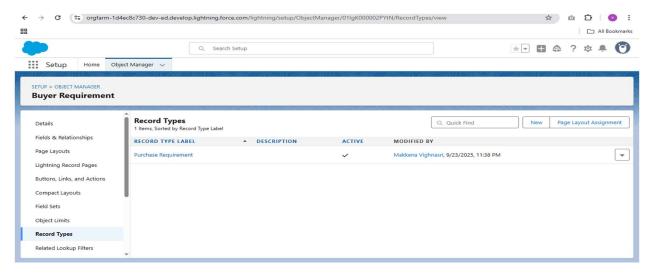
3. Record Types

Set up record types (e.g., Organic/Non-Organic Crops, Wholesale/Retail Orders, Delivery/Crop Quality Feedback) to differentiate data entry and process flows.

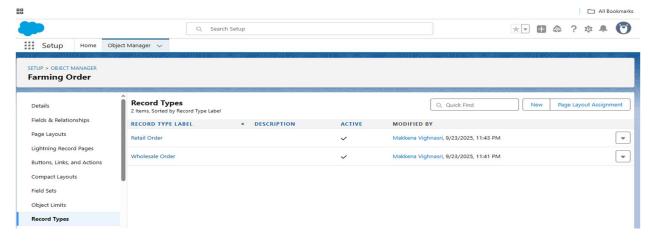
Crop listing



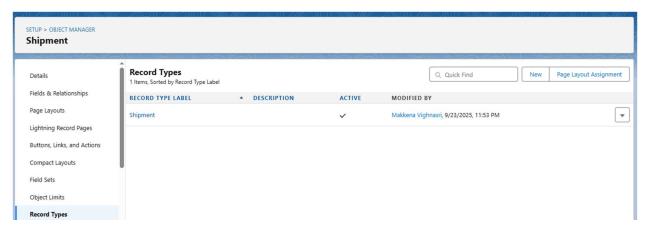
Buyer Requirement



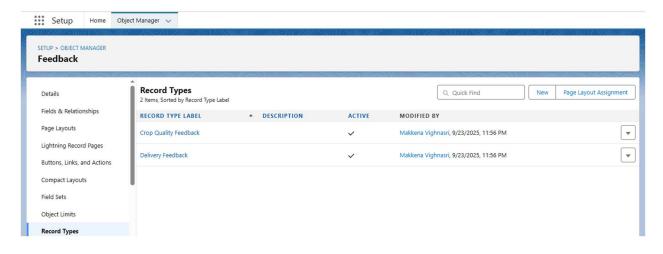
Farming order



Shipment



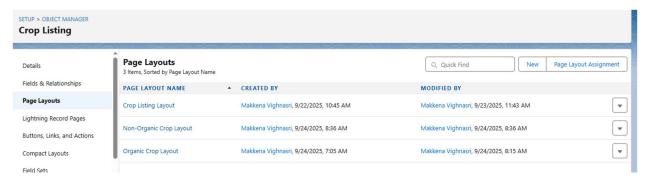
Feedback



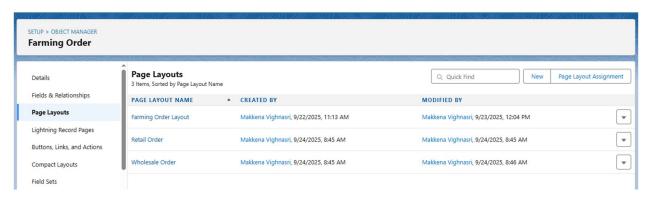
4. Page Layout

Customized page layouts for each object to display only the relevant fields for farmers, buyers, logistics, and support users.

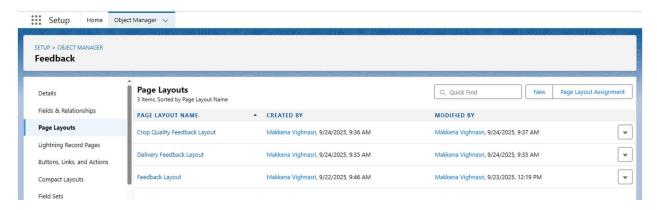
Crop listing



Farming order



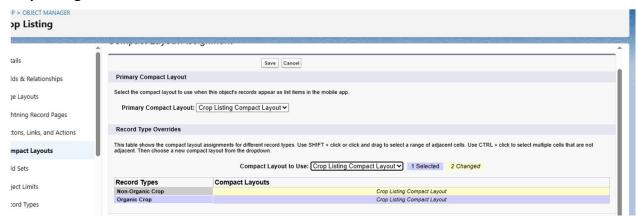
Feedback



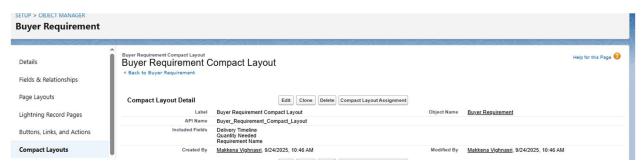
5. Compact layouts

Configured compact layouts with key fields (like Crop, Quantity, Price, Order Status) to show essential details in record highlights.

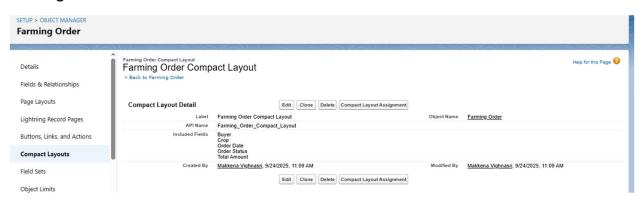
Crop listing



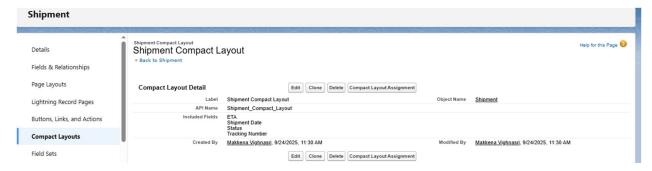
Buyer Requirement



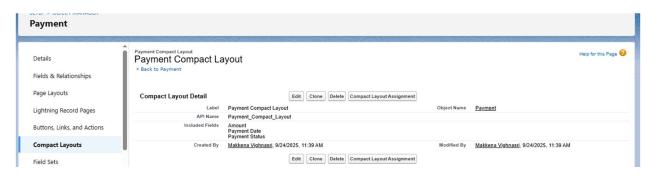
Farming Order



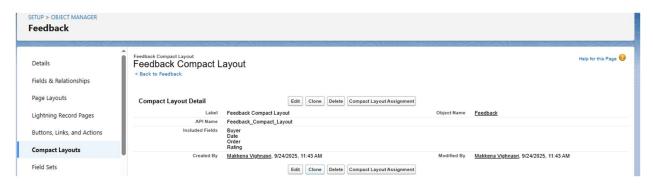
Shipment



Payment

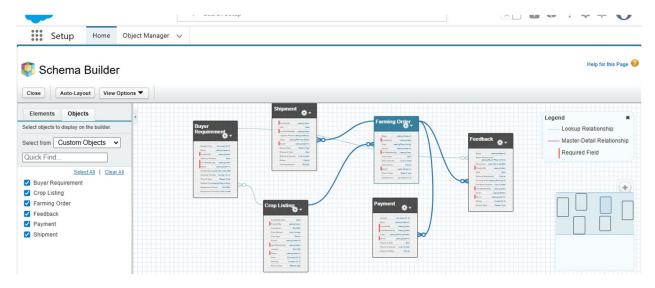


Feedback



6. Schema Builder

Visualized object relationships (lookup and master-detail) between farmers, buyers, crops, orders, payments, shipments, and feedback.



7. Lookup vs Master-Detail vs Hierarchical Relationships

1. Account (Farmers, Buyers, Logistics)

- Standard object → base for most lookups.
- Type: No change (Salesforce default).

2. Crop Listing → Farmer (Account)

- One farmer can have many crop listings.
- If a farmer is deleted, crops may still remain for reports.
- Use: Lookup Relationship (NOT master-detail).

3. Buer Requirement \rightarrow Buyer (Account)

- A buyer can create many requirements.
- Buyer deletion shouldn't delete requirements.
- Use: Lookup.

4. Farming Order

- Linked to Buyer (Account), Farmer (Account), and Crop Listing.
- Orders shouldn't be deleted if the account is deleted.
- Use: All Lookups.

5. Shipment → Farming Order

- Shipment exists only if an order exists.
- If the order is deleted, shipment must also be deleted.
- Use: Master-Detail.

6. Payment \rightarrow Farmin Order

- Payments cannot exist without an order.
- If the order is deleted, payment should also vanish.
- Use: Master-Detail.

7. Feedback \rightarrow Farming Order

- Feedback is dependent on an order.
- If the order is deleted, feedback should also go.
- Use: Master-Detail.

8. Feedback \rightarrow Buyer Account)

- Buyer is reference only (reviewer).
- Deleting buyer should not wipe feedback.
- Use: Lookup.

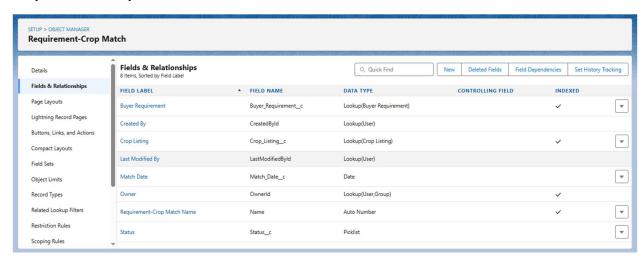
9. Hierarchical

- Used **only for User object** (managers, approvals).
- Not needed here

8. Junction Objects

Created two mandatory junction objects: Requirement-Crop Match (to connect buyer requirements with crops) and Order-Logistics Assignment (to link orders with logistics partners).

Requirement-Crop Match



Order-Logistics Assignment

