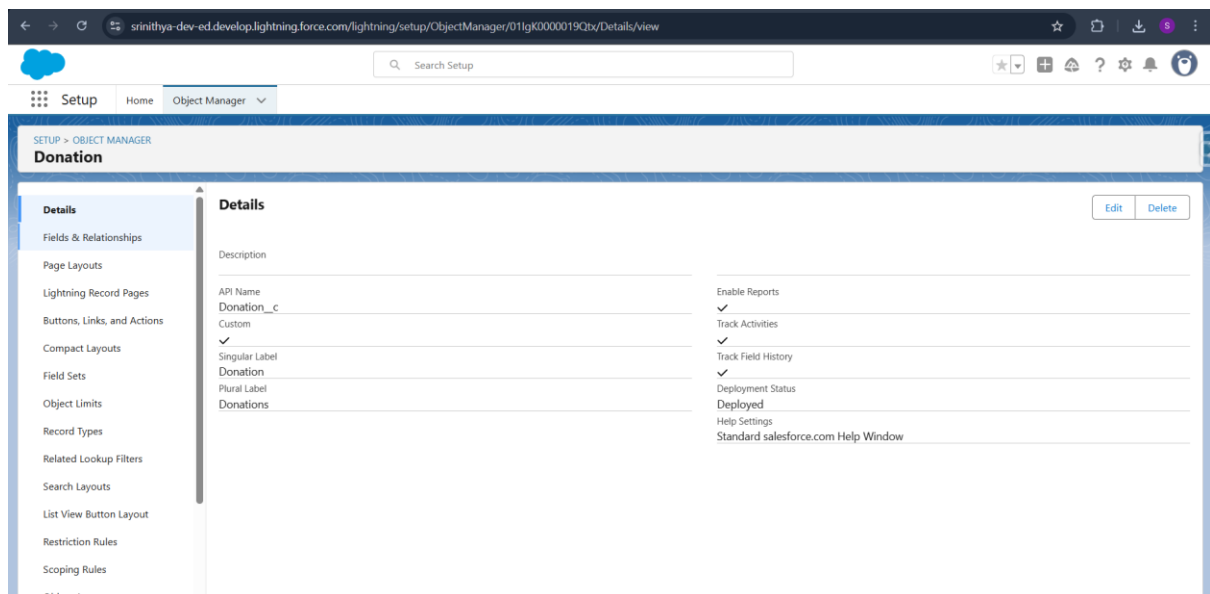


Phase 3: Data Modeling & Relationships

1. Core Custom Objects

We created **three core custom objects** to represent NGO operations:

- **Donation__c**
 - Tracks donor contributions (money, food, clothes, groceries, others).
 - Fields: Donor Name, Email, Phone, Donation Type, Amount, Occasion, Related Event, Date.
- **Volunteer__c**
 - Captures volunteer information and participation.
 - Fields: Name, Email, Skills, Availability, Participation Date, Task Assigned, Related Event.
- **Event__c**
 - Stores details about NGO events where donors and volunteers participate.
 - Fields: Event Name, Date, Location, Description.



2. Relationships Between Objects

- **Donation ↔ Event**
 - Lookup relationship: Each Donation can be linked to a specific Event.
 - Purpose: To track which donations were made for which events.
- **Volunteer ↔ Event**

- Lookup relationship: Each Volunteer can be associated with an Event.
- Purpose: To manage volunteer assignment per event.
- **Donation ↔ Volunteer (Indirect Relationship)**
 - No direct link, but both are connected through the Event object.
 - Purpose: Allows reporting on donors and volunteers who supported the same event.

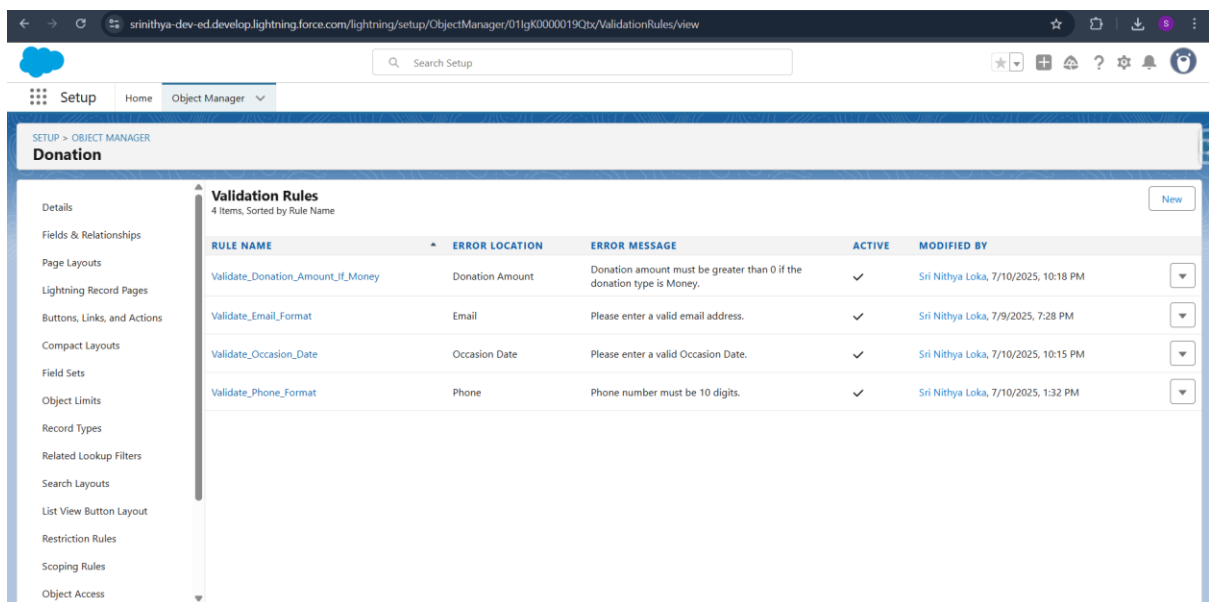
3. Record Types & Page Layouts (From Phase 2)

- **Donation__c**: One-Time, Monthly.
- **Volunteer__c**: Registration, Feedback.
- **Event__c**: Standard layout.

This ensures the correct fields appear based on context (e.g., monthly donations show recurring fields).

4. Validation Rules

- Donation amount > 0 if Donation Type = "Money".
- Donor Email must contain "@" and be unique.
- Phone number must be 10 digits.
- Occasion Date required if Occasion ≠ "None".



The screenshot shows the Salesforce Setup interface. The left sidebar contains a navigation menu with options like Details, Fields & Relationships, Page Layouts, Lightning Record Pages, Buttons, Links, and Actions, Compact Layouts, Field Sets, Object Limits, Record Types, Related Lookup Filters, Search Layouts, List View Button Layout, Restriction Rules, Scoping Rules, and Object Access. The main content area is titled 'Validation Rules' for the 'Donation' object, showing 4 items sorted by Rule Name. A table lists the validation rules with columns for Rule Name, Error Location, Error Message, Active status, and Modified By.

RULE NAME	ERROR LOCATION	ERROR MESSAGE	ACTIVE	MODIFIED BY
Validate_Donation_Amount_If_Money	Donation Amount	Donation amount must be greater than 0 if the donation type is Money.	✓	Sri Nithya Loka, 7/10/2025, 10:18 PM
Validate_Email_Format	Email	Please enter a valid email address.	✓	Sri Nithya Loka, 7/9/2025, 7:28 PM
Validate_Occasion_Date	Occasion Date	Please enter a valid Occasion Date.	✓	Sri Nithya Loka, 7/10/2025, 10:15 PM
Validate_Phone_Format	Phone	Phone number must be 10 digits.	✓	Sri Nithya Loka, 7/10/2025, 1:32 PM

5. Outcome of Phase 3

At the end of this phase, we have:

- A structured data model with **custom objects** for Donations, Volunteers, and Events.
- **Relationships** established between objects for integrated tracking.
- **Validation rules** ensuring clean and reliable data.
- A clear ERD representation of the system.