

## Phase 3: Data Modeling & Relationships:

### Standard Objects And Custom Objects

Contact → Resident

Case → Service/Maintenance Request

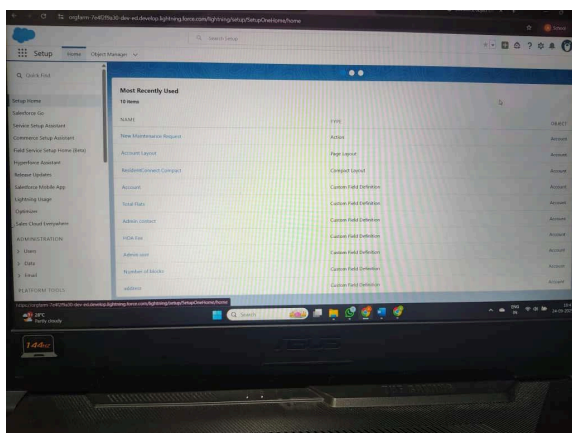
Account → Housing Society / Apartment Complex

Flat/Apartment

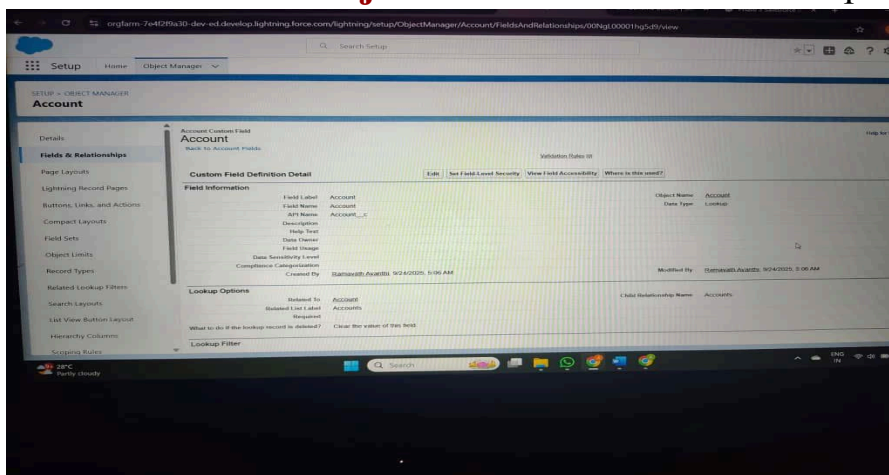
Community Event

Notice Board

Resident\_Event (junction object for many-to-many Resident ↔ Event)



**Added Fields to Objects:** Add custom fields to capture required info.



### Record Types:

Object Manager → Case → Record Types → New.



## Case

Details

Fields & Relationships

Page Layouts

Lightning Record Pages

Buttons, Links, and Actions

Record Types

## Record Types

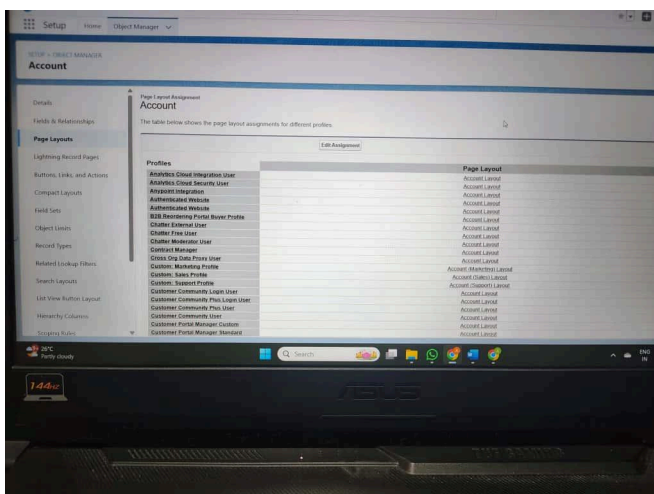
Record types let you offer different business processes, picklist values, and page layouts to different users.

New

Action	Record Type
<a href="#">Edit</a>	Emergency Request
<a href="#">Edit</a>	General Request

## Page Layout:

Object Manager → Account → Page Layout Assignment → Edit Assignment → select profiles (Admin, Staff, Resident) → save



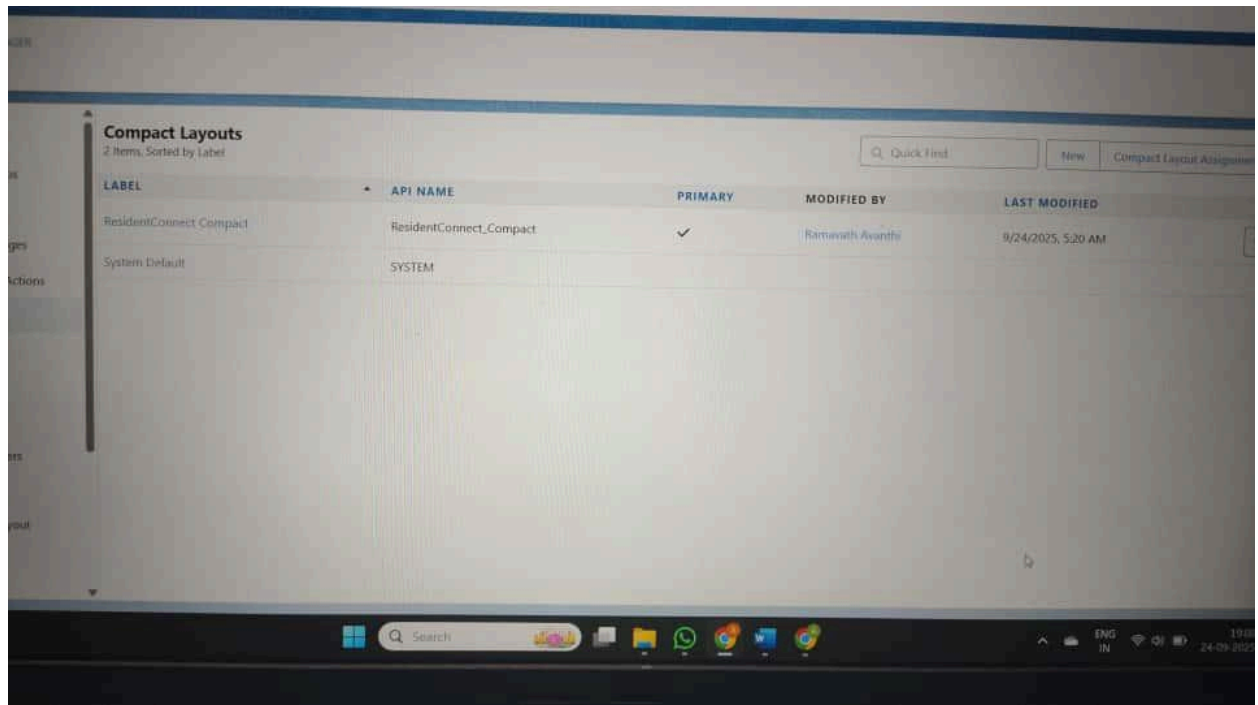
## Created a compact layout :

**Object Manager → Account → Compact Layouts → New.**

Name it **ResidentConnect Compact**.

Added these fields (in order): **Account Name**, **Society Type**,  
**Admin\_Contact\_\_c**, **Total\_Flats\_\_c**.

Save → Click **Compact Layout Assignment** → **Edit Assignment** → set **ResidentConnect Compact** as the org default → Save.

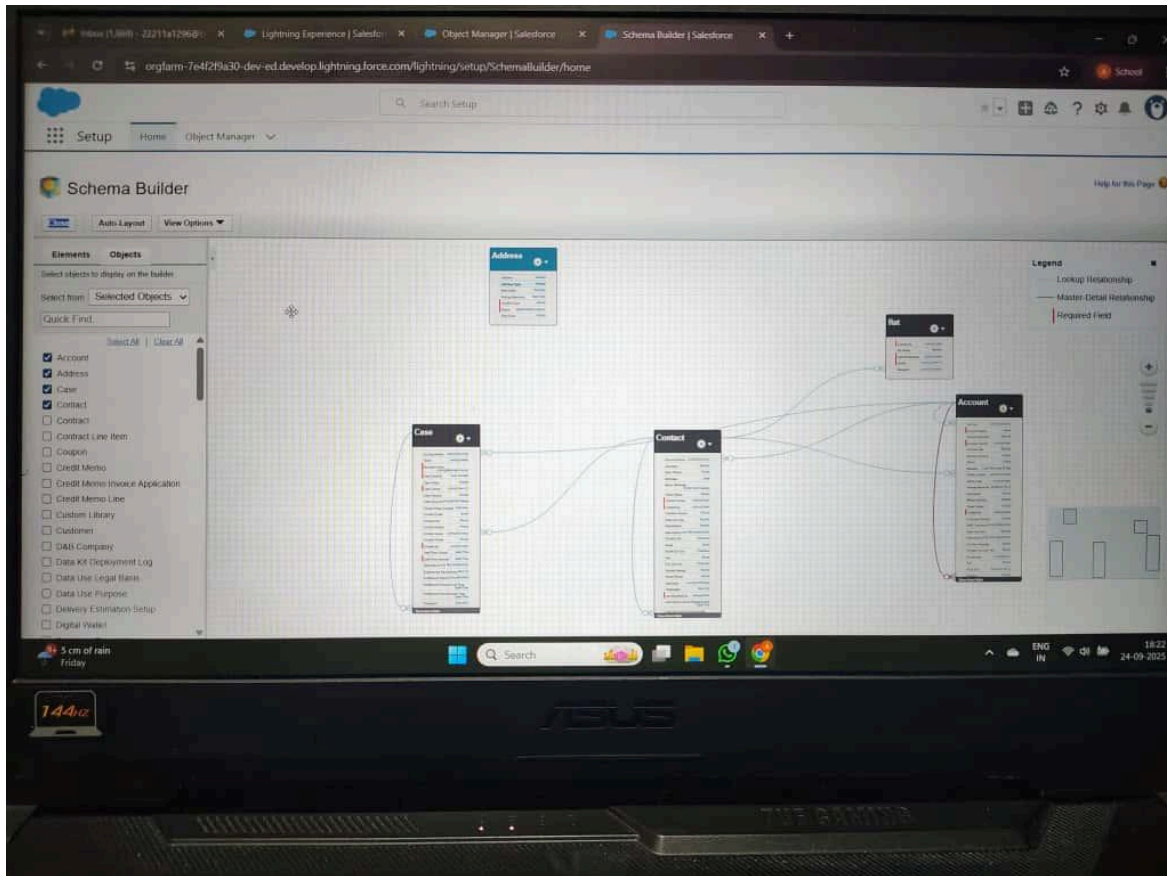


## **Schema Builder:**

Go to Setup → Schema Builder.

Check all objects: Account, Contact, Flat, Maintenance Request, Event, Notice, Resident\_Event.

See the lines connecting objects (Lookup = dotted line, Master-Detail = solid line).



## Lookup vs Master-Detail vs Hierarchical Relationships :

### 1. Relationship Types in Salesforce

#### Lookup Relationship

- Definition: A loose link between two objects; records are related but independent.
- Example: Contact → Related to Account (but Contact can exist without Account).
- Where: Setup → Object Manager → Select Object → Fields & Relationships → New → Lookup Relationship.

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#### Master-Detail Relationship

- Definition: A strong parent-child link; child record's life depends on parent.

- Example: Expense (Child) → Related to Report (Parent). If Report is deleted, Expenses are deleted.
  - Where: Setup → Object Manager → Select Object → Fields & Relationships → New → Master-Detail Relationship.
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## Hierarchical Relationship

- Definition: A special Lookup relationship only available on User Object, used to define hierarchy between users.
  - Example: User A → Manager = User B.
  - Where: Setup → Object Manager → User → Fields & Relationships → New → Lookup (User).
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## 2. Junction Objects

- Definition: Custom object with two Master-Detail relationships to create many-to-many links.
  - Example:
    - Course ↔ Enrollment (Junction) ↔ Student.
    - One student can enroll in many courses, and one course can have many students.
  - Where: Setup → Object Manager → New Custom Object (Enrollment) → Add two Master-Detail fields (to Course and Student).
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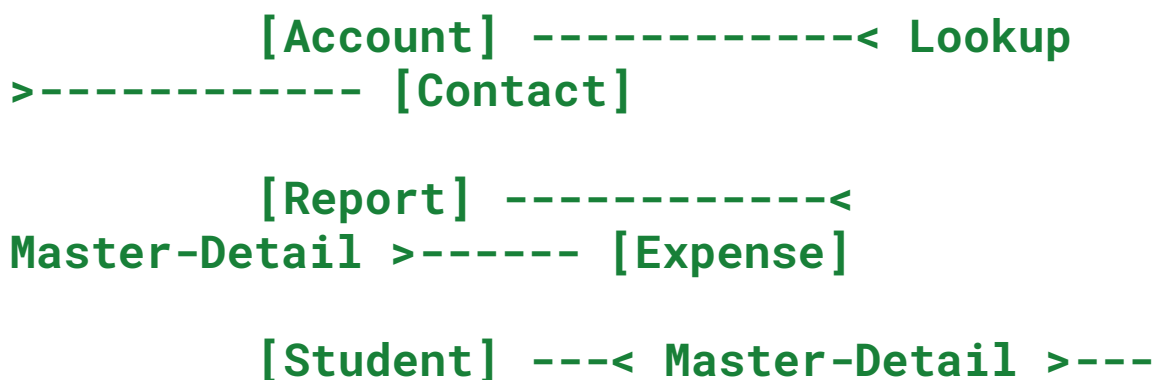
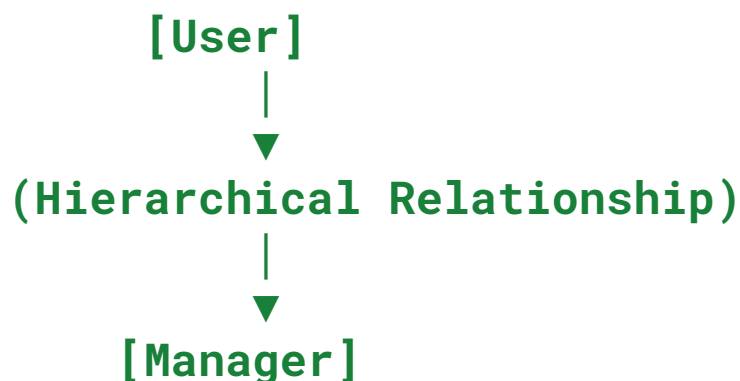
### 3. External Objects

- Definition: Objects that map to data outside Salesforce (via Salesforce Connect).
- Example: External Orders stored in SAP or Heroku but viewed in Salesforce as External Object: Order\_\_x.

Where: Setup → External Data Sources → New External Data Source → Select Type (OData/Heroku/Postgres etc.) → Validate → Sync → External Object created.

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#### ◆ Flow Chart Example



[Enrollment] ---< Master-Detail >---  
[Course]

(Junction  
Object)

[External System (SAP/DB)] ---<  
External Object >--- [Order\_\_x]