Phase 3: Data Modeling & Relationships

Project: Student Accommodation Finder

3.1 Standard & Custom Objects

Standard Objects Used:

- User: Represents students, landlords, and administrators.
- Account: Landlord details and organization-level data.
- Contact: Student details (linked to user and accommodation booking).

Custom Objects Created:

Object	Key Fields
Student	Name, Email, Phone, Student City, Student College, Gender, Course
Landlord	Name, Email, Phone, Address, Owner
Accommodation	Name, Location, Rent, Type, Status, Landlord Lookup, Furnished, Meals Included, Mess Facility, Number of Beds
Booking	Booking Date, Status, Student Lookup, Accommodation Lookup, Amount
Payment	Amount, Payment Date, Mode, Booking Master-Detail, Payment Name

3.2 Fields

Student Fields: Name, Email, Phone, Student City, Student College, Gender, Course

Landlord Fields: Name, Email, Phone, Address, Owner

Accommodation Fields: Name, Location, Rent, Type, Status, Landlord Lookup, Furnished, Meals Included, Mess Facility, Number of Beds

Booking Fields: Booking Date, Status, Student Lookup, Accommodation Lookup, Amount

Payment Fields: Amount, Payment Date, Mode, Booking Master-Detail, Payment Name

3.3 Record Types

Purpose: Different processes or picklist values for same object.

Accommodation Record Types

• Hostel → Fields: Mess Facility, Curfew Time, Number of Beds

• PG → Fields: Meals Included, Room Sharing Option

• Apartment → Fields: Furnished (Yes/No)

• Flat → Fields: Status (Available/Booked)

• Single Room → Fields: Type, Status

Booking_c Record Types

• Student-Initiated Booking → Status: Pending, Cancelled

• Admin-Assigned Booking → Status: Pending, Confirmed, Cancelled, Assigned

3.4 Page Layouts

Purpose: Control fields, sections, related lists visible to different roles

Accommodation Layouts

Layout Name	Record Type	Profile	Fields Visible
Hostel Layout	Hostel	Landlord	Name, Location, Rent, Mess Facility, Number of Beds, Status
PG Layout	PG	Landlord	Name, Location, Rent, Meals Included, Room Sharing, Status
Apartment Layout	Apartment	Landlord	Name, Location, Rent, Furnished, Status

Page Layouts			
4 Items, Sorted by Page Layout Name			
PAGE LAYOUT NAME ▲	CREATED BY	MODIFIED BY	
Accommodation Layout	Aakarsh verma, 9/20/2025, 10:47 PM	Aakarsh verma, 9/23/2025, 9:02 AM	▼
Apartment layout	Aakarsh verma, 9/23/2025, 3:55 AM	Aakarsh verma, 9/23/2025, 9:02 AM	▼
Hostel Layout	Aakarsh verma, 9/23/2025, 3:28 AM	Aakarsh verma, 9/23/2025, 9:02 AM	▼
PG Specific layout	Aakarsh verma, 9/23/2025, 3:54 AM	Aakarsh verma, 9/23/2025, 9:02 AM	▼

Details
Fields & Relationships
Page Layouts
Lightning Record Pages
Buttons, Links, and Actions
Compact Layouts
Field Sets
Object Limits

Booking Layouts

Layout Name	Record Type	Profile	Fields Visible
Student Booking Layout	Student-Initiated	Student	Property, Booking Date, Status
Admin Booking Layout	Admin-Assigned	Admin	Property, Student, Booking Date, Status, Notes

Page Layouts			
3 Items, Sorted by Page Layout Name			
PAGE LAYOUT NAME ▲	CREATED BY	MODIFIED BY	
Admin-Assigned Layout	Aakarsh verma, 9/23/2025, 4:07 AM	Aakarsh verma, 9/23/2025, 4:08 AM	▼
Booking Layout	Aakarsh verma, 9/20/2025, 11:19 PM	Aakarsh verma, 9/23/2025, 2:30 AM	▼
Student-Initiated Layout	Aakarsh verma, 9/23/2025, 4:06 AM	Aakarsh verma, 9/23/2025, 4:07 AM	▼

Details
Fields & Relationships
Page Layouts
Lightning Record Pages
Buttons, Links, and Actions
Compact Layouts
Field Sets

Payment Layout
• Fields: Booking, Amount, Payment Date, Mode
• Assign to Admin/Landlord

Page Layouts			
1 Items, Sorted by Page Layout Name			
PAGE LAYOUT NAME ▲	CREATED BY	MODIFIED BY	
Payment Layout	Aakarsh verma, 9/23/2025, 2:26 AM	Aakarsh verma, 9/23/2025, 4:12 AM	▼

Details
Fields & Relationships
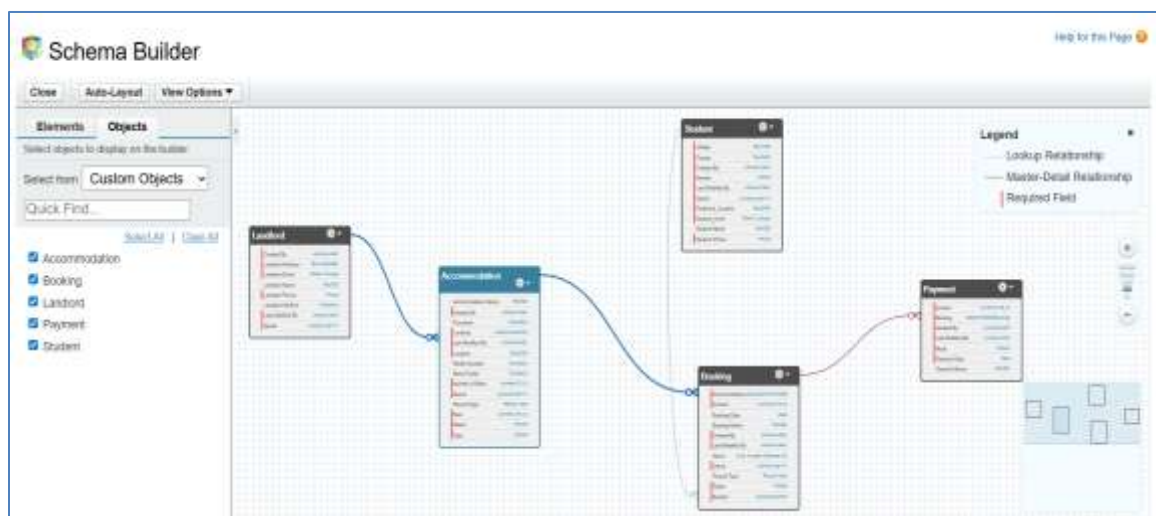Page Layouts
Lightning Record Pages
Buttons, Links, and Actions

3.5 Compact Layouts

Purpose: Show key fields at the top of record for quick glance in Lightning & Mobile

Object	Key Fields Displayed
Property	Name, Type, Rent, Status, Location, Landlord
Booking	Booking Date, Property, Student, Status
Payment	Booking, Amount, Payment Date, Mode
Student	Name, Email, Phone, Preferred Location, Budget
Landlord	Name, Email, Phone, Property Count

3.6 Schema Builder

- Visual representation of objects, fields, and relationships.

  o Property → Landlord (Lookup)

  o Booking → Property, Student (Lookup)

  o Payment → Booking (Master-Detail)

  o Shortlist → Student + Property (Master-Detail junction)

3.7 Lookup vs Master-Detail vs Hierarchical Relationships

Child Object	Parent Object	Relationship Type	Notes
Property	Landlord	Lookup	Property can exist independently
Booking	Property	Lookup	Booking linked to Property
Booking	Student	Lookup	Booking belongs to Student
Payment	Booking	Master-Detail	Payment depends on Booking; inherits sharing
Shortlist	Student	Master-Detail	Junction object for many-to-many
Shortlist	Property	Master-Detail	Junction object for many-to-many

Junction Object:

Shortlist enables Student ↔ Property many-to-many relationship.