

Step 1: Define components

-Stays

-Experiences

Step 2: Define entities

E1. Hosting

E2. User

E3. Trips

E4. Review

E5. Host

E6. Category

E7. Stats

E8. Booking

-E9. Tourist sites

-E10. Services

-E11. Host Stats

Step 3: Define attributes per entity

E1. Hosting: Type, guests, description, ubication, price, rooms, beds.

E2. User: Username, password, email address, phone number, verify.

E3. Trips: Duration, guests, description, ubication, type, languages.

E4. Review: Comments, author, stars, timestamp, ubication.

E5. Host: Username, password, email address, phone number, languages, occupation, description, verify.

E6. Category: Type, restrictions.

E7. Stats: Rating, Cleanliness, Accuracy, Communication, Check-in, Location

E8. Booking: Date check-in, date check-out, total price, stay price, adults, children, pets, infants,

-E9. Tourist sites: Type, ublication.

-E10. Services: Wifi, food, tv, Air conditioning , kitchen, Lockbox, view, Parking, bathroom, drink.

-E11. Host stats: Rating, years experience, number of reviews

Step 4:

	E1	E2	E3	E4	E5	E6	E7	E8	E9	E10	E11
E1				XXX	XXX	XXX	XXX	XXX		XXX	
E2				XXX							
E3				XXX		XXX	XXX	XXX	XXX	XXX	
E4	XXX	XXX	XXX		XXX		XXX		XXX		XXX
E5	XXX			XXX							XXX
E6	XXX		XXX						XXX		
E7	XXX		XXX	XXX							
E8	XXX		XXX								
E9			XXX	XXX		XXX					
E10	XXX		XXX								
E11				XXX	XXX						

Step 5:

E1-E4: One to many.

E1-E5: Many to one.

E1-E6: Many to one.

E1-E7: One to one.

E1-E8: One to many.

E1-E10: One to one.

E2-E4: One to many

E3-E4: One to many

E3-E6: Many to one

E3-E7: One to one

E3-E8: One to many

E3-E9: One to many

E3-E10: One to one

E4-E5: One to many

E4-E7: Many to one

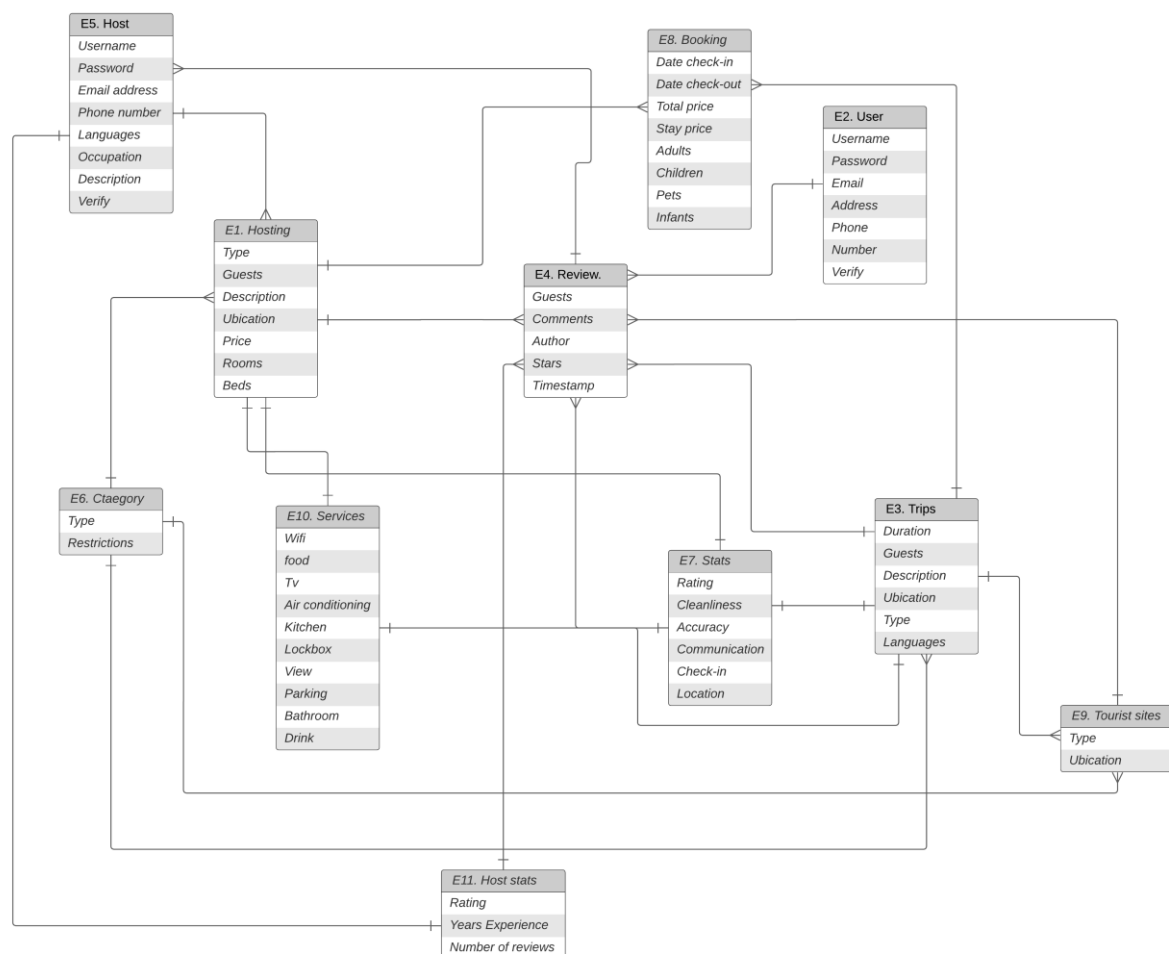
E4-E9: Many to one

E4-E11: Many to one

E5-E11: One to one

E6-E9: One to many

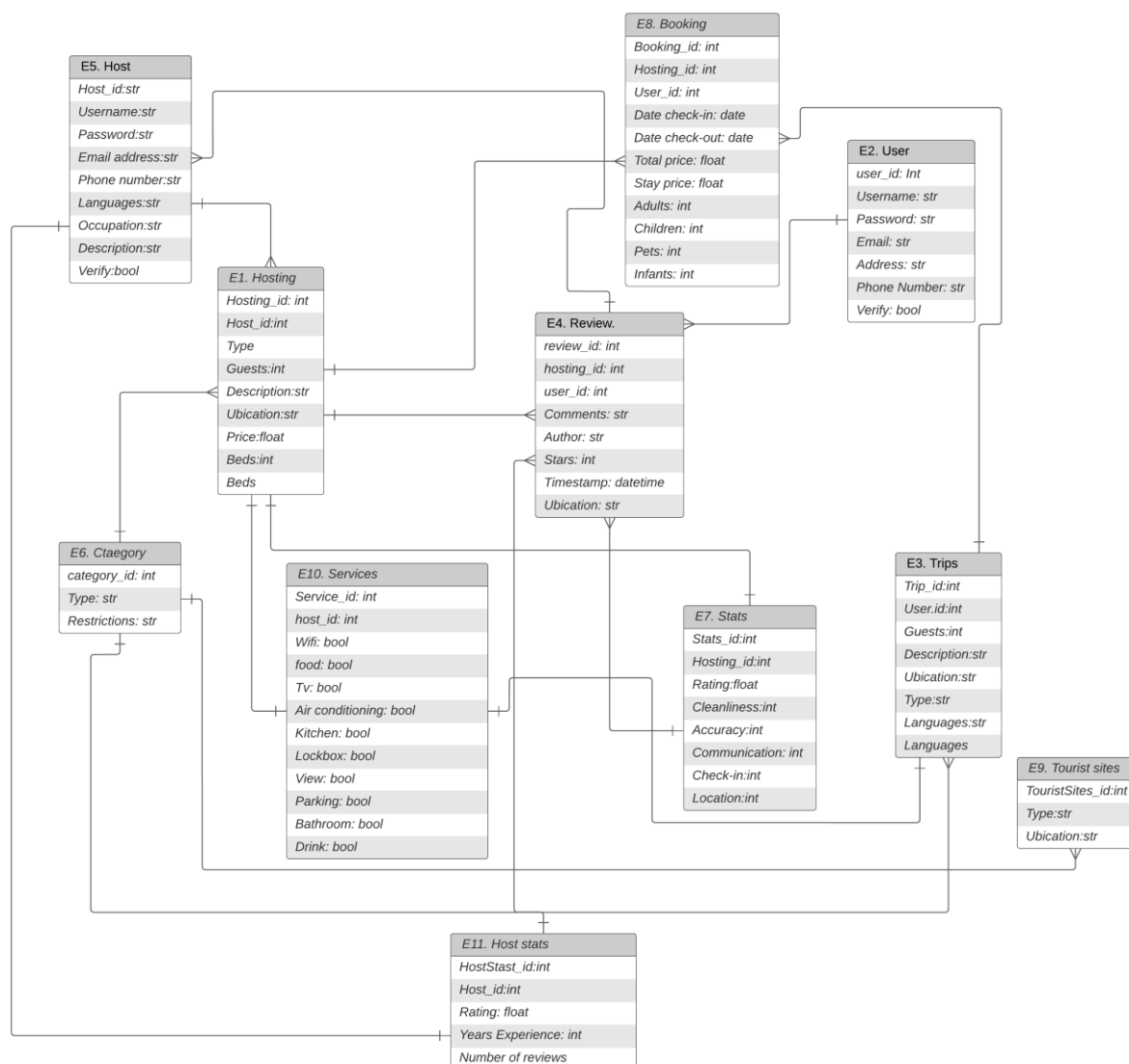
Step 6:



Step 7 and step 8:

To break down many-to-many relationships, we declare the Booking entity, which acts as an intermediary that breaks down these types of relationships between the entities involved. By introducing an intermediate entity, a many-to-many relationship is transformed into two one-to-many relationships, making it easier to manage and store information. This booking entity not only records the connections between the other entities but can also store additional data relevant to the relationship, such as dates, specific details of the reservation, or any other contextual information that is needed.

Step 9:



Step 10:

