Project: **Grizz Housing**

Entity Relationship Diagram

Presented to

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Entity Listing

Profile:

- ● ConsumerUser:
  - ○ **userID** (PK)
  - ○ firstName
  - ○ lastName
  - ○ phoneNumber
  - ○ emailAddress
  - ○ emailAddressOU
- ● Preference:
  - ○ **preferenceID** (PK)
  - ○ userID (FK)
  - ○ minBedrooms
  - ○ minBathrooms
  - ○ minSize
  - ○ maxSize
  - ○ minRentAmount
  - ○ maxRentAmount
  - ○ parking (free/paid/no)
  - ○ furnished (yes/no)
  - ○ laundry (yes/no)
  - ○ petsAllowed (yes/no)
  - ○ smokingAllowed (yes/no)
- ● Landlord:
  - ○ **landlordID** (PK)
  - ○ firstName
  - ○ lastName
  - ○ phoneNumber
  - ○ emailAddress
  - ○ contactPhone
  - ○ contactEmail
  - ○ contactHours
- ● FavoritedApartment:
  - ○ **favoriteID** (PK)
  - ○ userID (FK)
  - ○ apartmentID (FK)

Listing:

- Apartment.
  - **apartmentID** (PK)
  - landlordID (FK)
  - type
  - addressLine1
  - addressLine2
  - city
  - state
  - zipCode
  - noOfBedrooms
  - noOfBathrooms
  - size
  - parking (free/paid/no)
  - furnished (yes/no)
  - laundry (yes/no)
  - petsAllowed (yes/no)
  - smokingAllowed (yes/no)
  - apartmentOverview
  - rentAmount
  - dateAvailable
- Report.
  - **reportID** (PK)
  - description
- SavedApartments.
  - **savedApartmentID** (PK)
  - apartmentID (FK)
- SavedFilters.
  - **savedFilterID** (PK)
  - Query
- Application
  - **applicationID** (PK)
  - moveInDate
  - tenancyLength
  - dateOfBirth
  - ssnLast4
  - photoID_type
  - photoID#

Commented [1]: @osarodionogbebo@oakland.edu Isn't this one "FavoritedApartment"?

Commented [2]: Just noticed. It is the same.

Commented [3]: Isn't the full SSN required for a background check?

Commented [4]: Actually you don't need the full, last 4 + first name + last name + photo ID are way more than enough, also we will raise questions (as in, real life) if we stores full SSNs without any compliance declaration.

Commented [5]: Got it! Thanks for the clarification.

- ○ noOfOccupants
- ○ noOfVehicles
- ○ pets (yes/no)
- ○ currentAddress
- ○ occupation
- ○ employer
- ○ employerContact
- ○ monthlyIncome
- ○ emergencyContact
- ○ tenantSignature
- ○ ownerSignature
- ○ date
- ● RentingApartment (when an apartment is rented to ConsumerUser(s)):
  - ○ **rentingID** (PK)
  - ○ apartmentID (FK)
  - ○ userID (FK)

Communications:

- ● Price Drop
  - ○ **PriceDropID**
  - ○ PDDate
  - ○ PDTime
  - ○ PDAmount
  - ○ PDExpire
  - ○ ApartmentID (FK)
- ● Payment Due
  - ○ **PayDueID**
  - ○ PayDueDate
  - ○ PayDueTime
  - ○ PayDueAmount
  - ○ userID (FK)
- ● Listing Notification
  - ○ **LisingNotifyID**
  - ○ LNDate
  - ○ LNTime
  - ○ ApartmentID (FK)

- userID (FK)
- Chat Message
  - **MessageID**
  - Date
  - Time
  - messageText
  - userID (FK) *who sent it*
- Application Notification
  - **AppNotifyID**
  - ANDate
  - ANTime
  - ApplicationID (FK)
  - userID (FK)
- Application Selection Notification
  - **SelectAppNotifyID**
  - SANDate
  - SANTime
  - ApplicationID (FK)
  - userID (FK)
- RoommateMatch **(UNARY RELATIONSHIP WITH CUSTOMERS THAT ARE ROOMMATES)**
  - **RoomMatchNotifyID**
  - RMNDate
  - RMNTime
  - userID (FK)

Payment:

- UserPayment.
  - **UserPaymentID** (PK)
  - PaymentMethod (Credit/Debit)
  - UPExternal(Paypal)
  - UPTransactionHistory
  - UPSplit
  - UPBalance
  - userID (FK)

- ● LatePaymentRequest.
    - ○ **LatePaymentRequestID** (PK)
    - ○ LPRDate
    - ○ LPRPaymentMethod
    - ○ LPRAmount
    - ○ LPRFee
    - ○ landlordID (FK)

Analytics & Review:

- ● Review.
    - ○ **ReviewID**
    - ○ Date
    - ○ Time
    - ○ ReviewText
    - ○ Rating
    - ○ UserID (FK)
    - ○ ApartmentID (FK)
- ● ReviewComment.
    - ○ **RevCommentID**
    - ○ Date
    - ○ Time
    - ○ RevCommentText
    - ○ ReviewID (FK)