

Requirements specification for the Airbnb Database project

What roles (person/user groups) are there?

- Guests
- Hosts
- Administrators

What actions do these roles perform?

Guests:

Firstly, the guest user group searches for objects to rent with specific requirements. These requirements are for example the location, price per night, number of beds, availability, etc. After finding a suitable apartment, guests can view further details of the object. Such details are for instance: the exact address, host contact information, object description, and photos. If the apartment fits the requirements of the guest users, they can also book and make payments directly to Airbnb. After their stay, they can write a review and give a “star assessment,” where 5 stars are the maximum. These reviews are open to reading by other users.

Hosts:

The Host user group gives a detailed description of their object by providing all the necessary data information mentioned previously in the guest's user group. The Host user group also manages reservations and therefore updates the availability of the rental. After the rent, the host can also write a review about the guest and give a “star assessment.”

Administrators:

This user group is not required to provide any personal information, but rather monitor any data inserted into the database in terms of quality, harmfulness, and correctness.

Which data and functions are required?

Guest:

- Insert, update, and delete Personal Information: Name, address; Age, telephone number, E-Mail address
- Insert Search Information: Location, Check-In date, Check-Out date, number of beds, price minimum, price maximum, property type
- Insert, update, and delete Payment Information
- Insert, update, and delete Reviews
- View Hosts Personal information

Hosts:

- Insert, update, and delete Personal Information: Name, Age, telephone number, E-Mail address
- Insert, update, and delete Property Information: address, type of property, number of beds, number of bathrooms, price per night, availability, additional offerings
- Insert, update, and delete Payment Information
- Insert, update, and delete Reviews
- View Guest Personal Information

Administrators:

- Update and delete Personal Information from the Guest and Host User Group
- Update and delete Property Information
- View Data inserted by any user group
- View and update payments