Database Model Design

This document outlines the database models used in our FlyNext project. The design is based on the following models:

User: Represents both regular users and hotel owners. Contains personal details and authentication information. Each user can have multiple bookings and notifications.

Hotel: Represents a hotel listed on the platform. Each hotel is owned by a user with the HOTEL_OWNER role and can have multiple rooms and bookings.

Room: Represents a room type in a hotel. It includes details like amenities, price per night, and the number of available rooms. Each room belongs to a hotel and can be booked multiple times.

Booking: Represents a booking which can include a hotel reservation. It links users with hotels and rooms.

Notification: Represents messages sent to users regarding the status of their bookings or other important updates.

City and Airport: These models store location and airport data fetched from the AFS API.

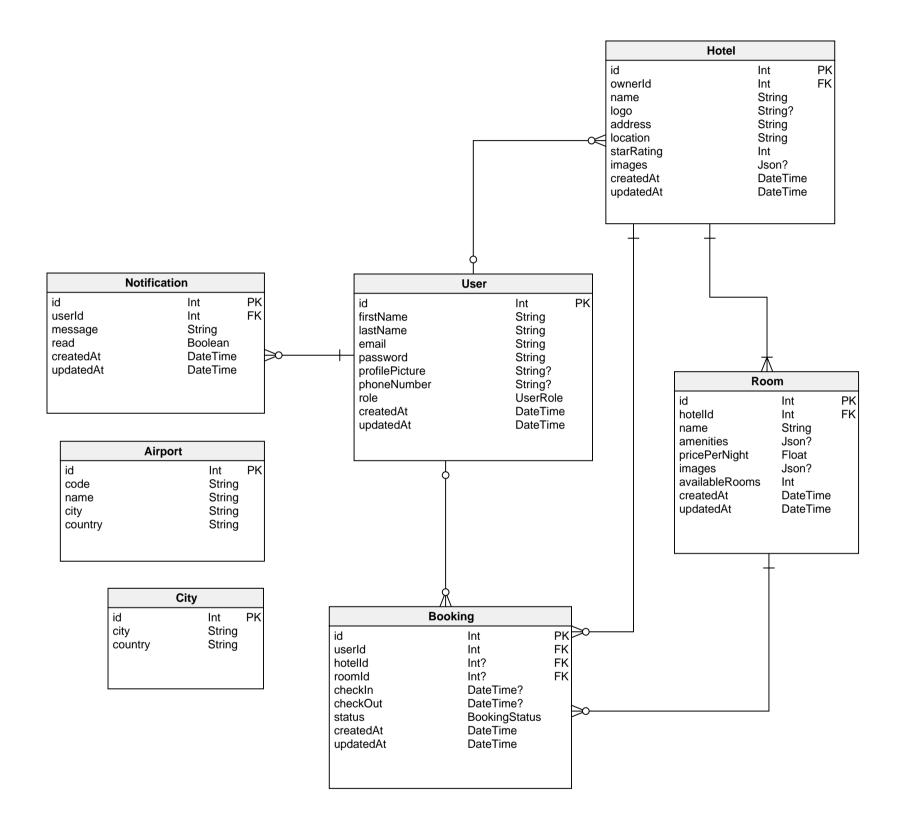
The following diagram (see attached ER diagram on next page) illustrates the relationships between these models. Notice that:

- A **User** can create multiple **Bookings** and receive multiple **Notifications**.
- A Hotel is owned by a single User and can offer multiple Rooms and receive multiple Bookings.
- A **Room** belongs to one **Hotel** and can be associated with multiple **Bookings**.

The ER diagram provides additional details on the exact columns, data types, and constraints for each table.

Note on Enum Fields:

- **UserRole:** Possible values are USER and HOTEL OWNER.
- BookingStatus: Possible values are CONFIRMED, CANCELED, and PENDING.



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