Entity Relationship Diagram

1. **User**
    - Represents the registered users of the system.
    - Each user can make reservation.
2. **Train**
    - Represents the trains in the system with details like schedule, origin destination, and capacity.
    - Each train can have multiple reservations.
3. **Reservation**
    - Represents a booking made by a user for a specific train.
    - Connects **User** and **Train** entities.

Table Definitions

1. **User Table**
    - user_id (primary key)
    - username
    - email
    - password
    - role
2. **Train Table**
    - train_id (primary key)
    - trainCoach
    - origin
    - destination
    - departureDate
    - DepartureTime
    - AvailabeSeats
    - Price

3. **Reservation Table**
    - reservationId (primary key)
    - user
    - train
    - totalAmount
    - seatNumber
    - confirmationCode
    - createdAT

Relationships

1. **One-to-Many** between **User** and **Reservation**
    - A user can make multiple reservations.
2. **One-to-Many** between **Train** and **Reservation**
    - A train can have multiple reservations.
3. **Many-to-One** between **Reservation** and both **User** and **Train**.