

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.
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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**.

User	Reservation	Train
+-----+	+-----+	+-----+
user_id (PK) <-----	reservation_id (PK) ----->	train_id (PK)
username	user	trainCoach
role	train	origin
email	totalAmount	destination
password	seatNumber	departureDate
reservations	confirmationCode	departureTime
	createdAt	availableSeats
		price
		reservations