

MOVIE BOOKING SYSTEM

DATABASE ENTITIES AND ATTRIBUTES

1. Users Table

Column	Data Type	Description
user_id	INT (PK)	Unique user ID
name	VARCHAR(100)	User's full name
email	VARCHAR(255)	Unique email for login
password	VARCHAR(255)	Hashed password
phone	VARCHAR(20)	Contact number
user_type	ENUM('customer', 'admin')	Role of the user

2. Movies Table

Column	Data Type	Description
movie_id	INT (PK)	Unique movie ID
title	VARCHAR(255)	Movie title
genre	VARCHAR(100)	Movie genre
duration	INT	Duration in minutes
rating	DECIMAL(2,1)	Movie rating (e.g., 8.5)
description	TEXT	Movie synopsis
release_date	DATE	Release date
poster_url	VARCHAR(255)	URL of movie poster

3. Theatres Table

Column	Data Type	Description
theatre_id	INT (PK)	Unique theatre ID
name	VARCHAR(255)	Theatre name
location	VARCHAR(255)	Address/location

4. Screens Table

Column	Data Type	Description
screen_id	INT (PK)	Unique screen ID
theatre_id	INT (FK)	Linked to Theatres table
screen_name	VARCHAR(100)	Screen name/number
total_seats	INT	Total available seats

5. Showtimes Table

Column	Data Type	Description
showtime_id	INT (PK)	Unique showtime ID
movie_id	INT (FK)	Linked to Movies table
screen_id	INT (FK)	Linked to Screens table
start_time	DATETIME	Show start time

6. Seats Table

Column	Data Type	Description
seat_id	INT (PK)	Unique seat ID
screen_id	INT (FK)	Linked to Screens table
seat_number	VARCHAR(10)	Seat identifier (e.g., A5, B12)
is_vip	BOOLEAN	VIP seat or not

7. Bookings Table

Column	Data Type	Description
booking_id	INT (PK)	Unique booking ID
user_id	INT (FK)	Linked to Users table
showtime_id	INT (FK)	Linked to Showtimes table
seat_id	INT (FK)	Linked to Seats table
status	ENUM('pending', 'confirmed', 'cancelled')	Booking status

8. Payments Table

Column	Data Type	Description
payment_id	INT (PK)	Unique transaction ID
booking_id	INT (FK)	Linked to Bookings table
amount	DECIMAL(10,2)	Payment amount
payment_date	DATETIME	Payment timestamp
payment_status	ENUM('pending', 'completed', 'failed')	Payment state

