

Title: System for movie booking for multiple theatres

Group No. 18

- **Scope of the project:**

We are going to make a centralized system for online movie booking. To make booking task easy and one can easily book the tickets from anywhere and they can even choose their seats and seat category according to their wish. And our primary job is to keep the records of information of movies, theatres, customers and booking. So whenever we need to check record of any movie and how much profit it had made in theatres we can quickly get that. Even a person can know the reviews about current movies and how they are doing on the theatres. One can also know about upcoming movies and we are also open to any suggestions and improvements through feedbacks from our users so we can improve our system and make it better.

- **Description/Requirements:**

- City have city name and state have state name. Both of them can be identify by unique ID.
- There can be many theatre in one city. Theatre have name, address, and pin code.
- In one theatre there can be many screens with different seat categories (Example: Gold, platinum, Superior etc.)
- Different seat categories can have many seats. (Example: A1 to A20 is related to Gold category.)
- Movies from different genre can be in many theatres and similarly in a one theatre there can be many movies are going on.
- Genre have name and is identified by unique ID.
- Movies have movie name, release date, small description about movie and language of movie.
- Customers have name, contact number and email.
- Customer can book many seats for multiple movie shows. One seat of a show can be booked by only one customer.
- Payment have booking amount, mode (online or offline) and transaction ID which will unique for each payment.

- Customer can give their review about the movies.
- **Queries Requirements:**
 - List all the movies that are premiering in particular city and theatre.
 - List all the theatres according to city.
 - Movies according language and genre.
 - Timing of a movie (e.g. Bahubali) at a theatre (e.g. PVR).
 - List all the customers who haven't booked any movie from this system.
 - Show the count of theatres city wise and statewide.
 - Show the theatre and amount of tickets sold.
 - List all the movies which have rating more than 6.
 - Show the payments received for 'XYZ' movie.(count of online/offline mode or the total amount of the tickets sold).
 - Show the no. of available seats for 'XYZ' movie.
 - List movies having at least 3 genres.
 - Count the no. of movies having genre comedy.
 - List customers who ever watched a movie with genre comedy in theatre xyz.
 - List customers who booked a movie xyz, three or more days prior to the first show of that particular movie.
 - List of customers who booked more than 1 ticket for movie xyz.
 - List all the theatre names which appear in all states.
 - Show the number of tickets sold for all the show of "Khaali Peeli" movie in 'Cinepolis' for date '2020-10-03'. (Group by and count Function)
 - Find the names of Movies starting with ('Kh') and in which theater they are premiering in Ahmedabad City. (Search Filter)
 - Names of cities which have more than 2 theatres
 - List the names of the movie whose release date is 10/01/2020 and number of people who have already booked their tickets.