

# Project Synopsis for Movie Ticket Reservation System

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## Objective

The purpose of this booking system is to help an organization to maintain computerized records without redundant entries. The movie ticket reservation system has been developed to create a user-friendly movie ticket booking platform using software's like MariaDB and Python. We use MariaDB to maintain a database for all the data we require for movie bookings and Python as the front-end which interacts with the users on the basis of their preferences.

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## Abstract

The movie booking system first asks the user to choose a movie to watch from a variety of options provided from the database. After this, the user is also asked to mention the date they wish to watch the movie. Depending on the selected movie and the date, the user is shown all the corresponding show timings. The user selects the suitable show time and current seat availability is displayed to the user. This gives them the idea of where the screen is, how far the available seats might be from the screen and how many seats are available or are already reserved. Once the seats have been selected, the program generates a booking id for the user indicates them to pay at the counter.

The reserved seats are shown as |≡| and the available seats are shown as |\_|. The basic seating layout is given below, which can be altered depending upon the number of seats in the auditorium.

**Screen This Way**						
1	2	3	4	5		
≡	≡	≡	_	_		A
_	_	_	_	_		B
_	_	≡	≡	_		C
_	_	_	_	_		D
_	_	_	_	≡		E
≡	≡	≡	≡	≡		F
≡	_	_	_	_		G

# Database

There will be a need to create 4 basic tables in a database.

- **Screen:**  
This will consist of ScreenID and Seats. ScreenID will correspond to the screen number for any show and Seats will give the number of seats in that particular Audi.
- **Movie:**  
This will consist of MovieID, Name and RunTime. MovieID will be a unique ID for each movie, Name will correspond to the name of the Movie and RunTime will give the running time of the movie in minutes.
- **Show:**  
This will consist of ShowID and ShowTime. ShowID is a unique ID dedicated for each show timing.
- **Reservation:**  
This will consist of ReservationID, ScreenID, MovieID, Date, ShowID and SeatNum. ReservationID will be a unique ID which would be generated on each reservation, ScreenID will give us the screen number which will be in a relational constraint with the relation 'Screen', MovieID will give us the ID of the movie which is selected by the user for the reservation and it will be in a Relational Constraint with the relation 'Movie', Date will give the date of the selected show, ShowID will give us the ID of the show which is selected by the user which will be in a Relational Constraint with the relation 'Show' and finally the SeatNum will give us the seat selected by the user.