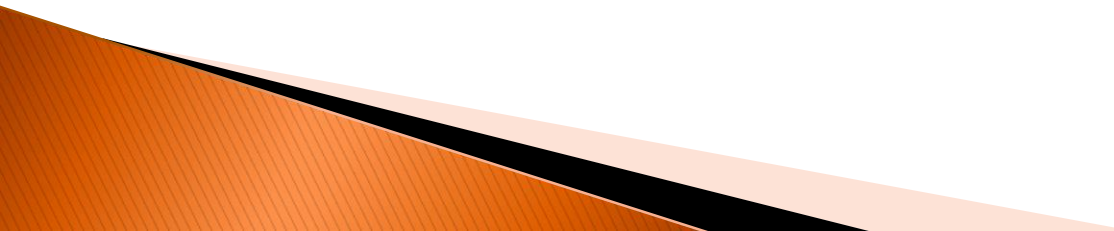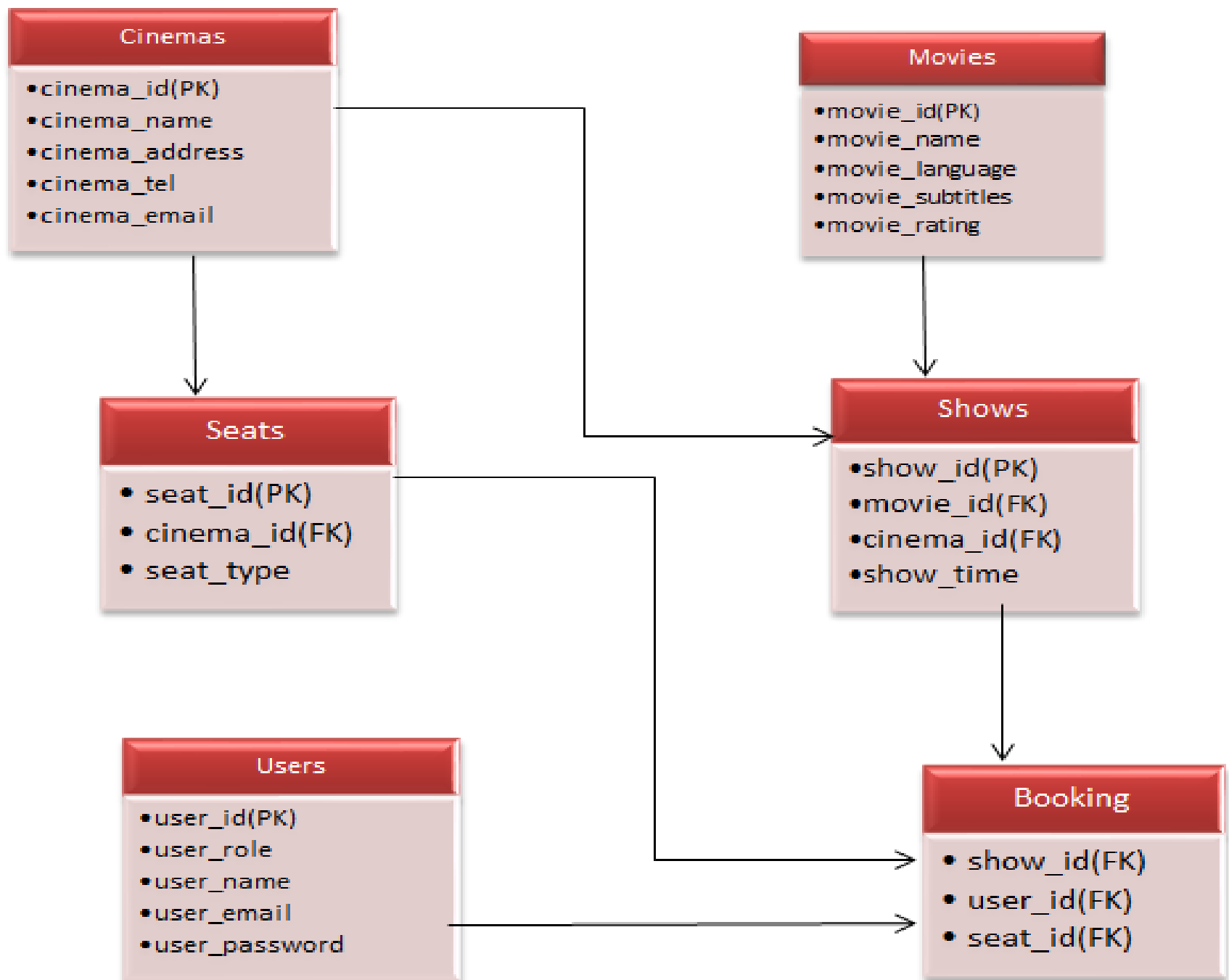# Online Movie Booking System

INTRODUCTION

▸ The project aims to create a database system for an online movie booking platform. It includes tables for cinemas, movies, users, shows, seats and bookings.

▸ Users can browse movies, select show times, and make bookings.

ER DIAGRAM

Cinemas

- cinema_id(PK)
- cinema_name
- cinema_address
- cinema_tel
- cinema_email

Movies

- movie_id(PK)
- movie_name
- movie_language
- movie_subtitles
- movie_rating

Seats

- seat_id(PK)
- cinema_id(FK)
- seat_type

Shows

- show_id(PK)
- movie_id(FK)
- cinema_id(FK)
- show_time

Users

- user_id(PK)
- user_role
- user_name
- user_email
- user_password

Booking

- show_id(FK)
- user_id(FK)
- seat_id(FK)

Online Movie Booking System Tables

C: show tables;

```
MariaDB [online_movie]> show tables;
+-----------------------+
| Tables_in_online_movie |
+-----------------------+
| booking               |
| cinemas               |
| movies                |
| seats                 |
| shows                 |
| users                 |
+-----------------------+
6 rows in set (0.001 sec)
```

Describe Tables

▶ Cinemas

C: desc cinemas;

```
MariaDB [online_movie]> desc cinemas;
+----------------+-------------+------+-----+---------+-------+
| Field          | Type        | Null | Key | Default | Extra |
+----------------+-------------+------+-----+---------+-------+
| cinema_id      | int(11)     | NO   | PRI | NULL    |       |
| cinema_name    | varchar(25) | YES  |     | NULL    |       |
| cinema_address | varchar(50) | YES  |     | NULL    |       |
| cinema_tel     | int(11)     | YES  |     | NULL    |       |
| cinema_email   | varchar(25) | YES  |     | NULL    |       |
+----------------+-------------+------+-----+---------+-------+
5 rows in set (0.027 sec)
```

• Movies

C: desc movies;

```
MariaDB [online_movie]> desc movies;
+-----------------+--------------+------+-----+---------+-------+
| Field           | Type         | Null | Key | Default | Extra |
+-----------------+--------------+------+-----+---------+-------+
| movie_id        | int(11)      | NO   | PRI | NULL    |       |
| movie_name      | varchar(25)  | YES  |     | NULL    |       |
| movie_language  | varchar(50)  | YES  |     | NULL    |       |
| movie_subtitles | varchar(5)   | YES  |     | NULL    |       |
| movie_rating    | decimal(10,0)| YES  |     | NULL    |       |
+-----------------+--------------+------+-----+---------+-------+
5 rows in set (0.027 sec)
```

▸ Users
C: desc users;

▸ Shows
C: desc shows;

```
MariaDB [online_movie]> desc users;
+---------------+-------------+------+-----+---------+-------+
| Field         | Type        | Null | Key | Default | Extra |
+---------------+-------------+------+-----+---------+-------+
| user_id       | int(11)     | NO   | PRI | NULL    |       |
| user_role     | varchar(20) | YES  |     | NULL    |       |
| user_name     | varchar(25) | YES  |     | NULL    |       |
| user_email    | varchar(25) | YES  |     | NULL    |       |
| user_password | varchar(25) | YES  |     | NULL    |       |
+---------------+-------------+------+-----+---------+-------+
5 rows in set (0.037 sec)
```

```
MariaDB [online_movie]> desc shows;
+-----------+---------+------+-----+---------+-------+
| Field     | Type    | Null | Key | Default | Extra |
+-----------+---------+------+-----+---------+-------+
| show_id   | int(11) | NO   | PRI | NULL    |       |
| movie_id  | int(11) | YES  | MUL | NULL    |       |
| cinema_id | int(11) | YES  | MUL | NULL    |       |
| show_time | time    | YES  |     | NULL    |       |
+-----------+---------+------+-----+---------+-------+
4 rows in set (0.032 sec)
```

▸ Booking
C: desc booking;

▸ Seats
C: desc seats;

```
MariaDB [online_movie]> desc booking;
+---------+---------+------+-----+---------+-------+
| Field   | Type    | Null | Key | Default | Extra |
+---------+---------+------+-----+---------+-------+
| show_id | int(11) | YES  | MUL | NULL    |       |
| user_id | int(11) | YES  | MUL | NULL    |       |
| seat_id | int(11) | YES  | MUL | NULL    |       |
+---------+---------+------+-----+---------+-------+
3 rows in set (0.029 sec)
```

```
MariaDB [online_movie]> desc seats;
+-----------+-------------+------+-----+---------+-------+
| Field     | Type        | Null | Key | Default | Extra |
+-----------+-------------+------+-----+---------+-------+
| seat_id   | int(11)     | NO   | PRI | NULL    |       |
| cinema_id | int(11)     | YES  | MUL | NULL    |       |
| seat_type | varchar(50) | YES  |     | NULL    |       |
+-----------+-------------+------+-----+---------+-------+
3 rows in set (0.028 sec)
```

Show tables

▸ Cinemas

C: select * from cinemas;

```
MariaDB [online_movie]> select * from cinemas;
+-----------+--------------------------+---------------+------------+-------------------------+
| cinema_id | cinema_name              | cinema_address | cinema_tel | cinema_email            |
+-----------+--------------------------+---------------+------------+-------------------------+
|        21 | PVR:Lodha xperia         | Palava        |  985623553 | lodha@gmail.com         |
|        22 | INOX:Palm Beach Galleria | Navi Mumbai   |  956245255 | palm@gmail.com          |
|        23 | PVR ICON: Infiniti       | Andheri(W)    |  955243525 | infiniti@gmail.com      |
|        24 | PVR Market City          | Kurla         |  856234352 | marketcity@gmail.com    |
|        25 | Cinepolis:Viviana Mall   | Thane         |  995623845 | vivianamall@gmail.com   |
|        26 | INOX: Insignia at Atria M | Worli        |  965874214 | atriamall@gmail.com     |
|        27 | Movie Max:Wonder Mall    | Thane         |  953584562 | wondermall@gmail.com    |
|        28 | INOX:Korum Mall          | Thane         |  865321596 | korummall@gmail.com     |
|        29 | Fun Square               | Navi Mumbai   |  987562145 | funsquare@gmail.com     |
|        30 | Bharat Cineplex          | Kurla         |  975685645 | bharat@gmail.com        |
|        31 | PVR:Citi Mall            | Andheri(W)    |  895647586 | citimall@gmail.com      |
|        32 | Odeon                    | Worli         |  987586949 | odeon@gmail.com         |
+-----------+--------------------------+---------------+------------+-------------------------+
12 rows in set (0.000 sec)
```

- Movies

C: select * from movies;

```
MariaDB [online_movie]> select * from movies;
+----------+--------------------------+----------------------------+-----------------+--------------+
| movie_id | movie_name               | movie_language             | movie_subtitles | movie_rating |
+----------+--------------------------+----------------------------+-----------------+--------------+
|       11 | Jhimma 2                 | Marathi                    | Yes             |            9 |
|       12 | Tiger 3                  | Hindi,Tamil,Telugu         | Yes             |            7 |
|       13 | Monster                  | Japanese                   | Yes             |            8 |
|       14 | Wish                     | English                    | Yes             |            8 |
|       15 | 12th Fail                | Hindi,Kannada,Tamil        | Yes             |           10 |
|       16 | The Marvels              | English,Hindi,Tamil,Telugu | Yes             |            7 |
|       17 | Napoleon                 | English,Hindi              | Yes             |            7 |
|       18 | Khichdi 2                | Hindi                      | No              |            7 |
|       19 | Boyz 4                   | Marathi                    | No              |            7 |
|       20 | The Super Mario Bros. Mov | English,Hindi             | Yes             |            9 |
|       21 | Intolerance              | Japanese                   | Yes             |            8 |
|       22 | Antony                   | Malayalam                  | Yes             |            9 |
+----------+--------------------------+----------------------------+-----------------+--------------+
12 rows in set (0.001 sec)
```

▸ Users
C: select * from users;

```
MariaDB [online_movie]> select * from users;
+---------+----------+----------------+---------------------------+--------------+
| user_id | user_role | user_name     | user_email                | user_password |
+---------+----------+----------------+---------------------------+--------------+
|       1 | Admin    | Sagar Pawar    | sagar123@gmail.com        | sagar123     |
|       2 | Staff    | Shirdhar Pawar | babu124@gmail.com         | babu124      |
|       3 | Customer | Ambiya Shaikh  | ambiya249@gmail.com       | ambu249      |
|       4 | Customer | Fariha Shaikh  | faro459@gmail.com         | faro459      |
|       5 | Staff    | Faiza Tole     | faizu345@gmail.com        | faizu345     |
|       6 | Customer | Nabila Kazi    | nabukazi@gmail.com        | nabila786    |
|       7 | Customer | Alka Magar     | alka@gmail.com            | alkamagar678 |
|       8 | Customer | Shahruk Khan   | shahruk@gmail.com         | shahruk465   |
|       9 | Customer | Faiz Pawaskar  | faizPawaskar@gmail.com    | faiz455      |
|      10 | Customer | Neha Dongre    | nehad@gmail.com           | dneha248     |
+---------+----------+----------------+---------------------------+--------------+
10 rows in set (0.000 sec)
```

- shows

C: select * from shows;

```
MariaDB [online_movie]> select * from shows;
+---------+----------+-----------+-----------+
| show_id | movie_id | cinema_id | show_time |
+---------+----------+-----------+-----------+
|      41 |       11 |        21 | 10:00:00  |
|      42 |       12 |        22 | 07:00:00  |
|      43 |       13 |        23 | 08:30:00  |
|      44 |       14 |        24 | 07:10:00  |
|      45 |       15 |        25 | 09:20:00  |
|      46 |       16 |        26 | 08:00:00  |
+---------+----------+-----------+-----------+
6 rows in set (0.000 sec)
```

- Booking

C: select * from booking;

```
MariaDB [online_movie]> select * from booking;
+---------+---------+---------+
| show_id | user_id | seat_id |
+---------+---------+---------+
|      41 |       1 |      31 |
|      42 |       2 |      32 |
|      43 |       3 |      33 |
|      44 |       4 |      34 |
|      45 |       5 |      35 |
|      46 |       6 |      36 |
+---------+---------+---------+
6 rows in set (0.001 sec)
```

▸ Seats

C: select * from seats;

```
MariaDB [online_movie]> SELECT * FROM SEATS;
+---------+-----------+------------------------------------------+
| seat_id | cinema_id | seat_type                                |
+---------+-----------+------------------------------------------+
|      31 |        21 | Classic,Prime Recliner                   |
|      32 |        22 | Royal Recliners,Club,Executive,Royal     |
|      33 |        23 | Classic,Prime,Recliner                   |
|      34 |        24 | 4DXClassic,4DXPrime                      |
|      35 |        25 | VIP Executive,VIP Premium                |
|      36 |        26 | INSIGNIA                                 |
+---------+-----------+------------------------------------------+
6 rows in set (0.001 sec)
```

Inner join

```
MariaDB [online_movie]> select cinemas.cinema_name,cinemas.cinema_address,cinemas.cinema_tel from cinemas inner join shows on cinemas.cinema_id=shows.cinema_id;
+-------------------------+--------------+------------+
| cinema_name             | cinema_address | cinema_tel |
+-------------------------+--------------+------------+
| PVR:Lodha xperia        | Palava       | 2147483647 |
| INOX:Palm Beach Galleria | Navi Mumbai  | 2147483647 |
| PVR ICON: Infiniti      | Andheri(W)   | 2147483647 |
| PVR Market City         | Kurla        | 2147483647 |
| Cinepolis:Viviana Mall  | Thane        | 2147483647 |
| INOX: Insignia at Atria M | Worli      | 2147483647 |
+-------------------------+--------------+------------+
6 rows in set (0.000 sec)
```

Left join

```
MariaDB [online_movie]> select cinemas.cinema_name,cinemas.cinema_address,shows.show_id,shows.show_time from cinemas left join shows on cinemas.cinema_id=shows.cinema_id;
+--------------------------+--------------+---------+-----------+
| cinema_name              | cinema_address | show_id | show_time |
+--------------------------+--------------+---------+-----------+
| PVR:Lodha xperia         | Palava       |      41 | 10:00:00  |
| INOX:Palm Beach Galleria | Navi Mumbai  |      42 | 07:00:00  |
| PVR ICON: Infiniti       | Andheri(W)   |      43 | 08:30:00  |
| PVR Market City          | Kurla        |      44 | 07:10:00  |
| Cinepolis:Viviana Mall   | Thane        |      45 | 09:20:00  |
| INOX: Insignia at Atria M | Worli       |      46 | 08:00:00  |
| Movie Max:Wonder Mall    | Thane        |    NULL | NULL      |
| INOX:Korum Mall          | Thane        |    NULL | NULL      |
| Fun Square               | Navi Mumbai  |    NULL | NULL      |
| Bharat Cineplex          | Kurla        |    NULL | NULL      |
| PVR:Citi Mall            | Andheri(W)   |    NULL | NULL      |
| Odeon                    | Worli        |    NULL | NULL      |
+--------------------------+--------------+---------+-----------+
12 rows in set (0.001 sec)
```

Order by

```
MariaDB [online_movie]> select * from cinemas order by cinema_address limit 5;
+-----------+-------------------+---------------+-------------+----------------------+
| cinema_id | cinema_name       | cinema_address | cinema_tel  | cinema_email         |
+-----------+-------------------+---------------+-------------+----------------------+
|        31 | PVR:Citi Mall     | Andheri(W)    |   895647586 | citimall@gmail.com   |
|        23 | PVR ICON: Infiniti | Andheri(W)    |   955243525 | infiniti@gmail.com   |
|        24 | PVR Market City   | Kurla         |   856234352 | marketcity@gmail.com |
|        30 | Bharat Cineplex   | Kurla         |   975685645 | bharat@gmail.com     |
|        29 | Fun Square        | Navi Mumbai   |   987562145 | funsquare@gmail.com  |
+-----------+-------------------+---------------+-------------+----------------------+
5 rows in set (0.001 sec)
```

Movie rating between

```
MariaDB [online_movie]> select * from movies where movie_rating between 8 and 9;
+----------+---------------------------+----------------+-----------------+--------------+
| movie_id | movie_name                | movie_language | movie_subtitles | movie_rating |
+----------+---------------------------+----------------+-----------------+--------------+
|       11 | Jhimma 2                  | Marathi        | Yes             |            9 |
|       13 | Monster                   | Japanese       | Yes             |            8 |
|       14 | Wish                      | English        | Yes             |            8 |
|       20 | The Super Mario Bros. Mov | English,Hindi  | Yes             |            9 |
|       21 | Intolerance               | Japanese       | Yes             |            8 |
|       22 | Antony                    | Malayalam      | Yes             |            9 |
+----------+---------------------------+----------------+-----------------+--------------+
6 rows in set (0.001 sec)
```

where

```
MariaDB [online_movie]> select * from cinemas where cinema_address="thane";
+-----------+------------------------+----------------+-------------+----------------------+
| cinema_id | cinema_name            | cinema_address | cinema_tel  | cinema_email         |
+-----------+------------------------+----------------+-------------+----------------------+
|        25 | Cinepolis:Viviana Mall | Thane          |   995623845 | vivianamall@gmail.com |
|        27 | Movie Max:Wonder Mall  | Thane          |   953584562 | wondermall@gmail.com |
|        28 | INOX:Korum Mall        | Thane          |   865321596 | korummall@gmail.com  |
+-----------+------------------------+----------------+-------------+----------------------+
3 rows in set (0.001 sec)
```

Limit
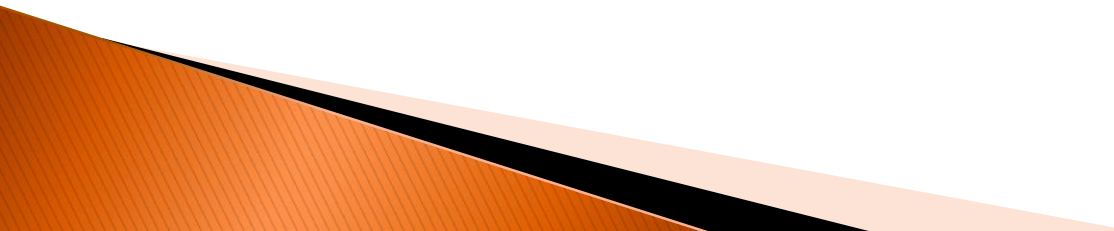

```
MariaDB [online_movie]> select user_name from users where user_role="Customer" limit 4;
+---------------+
| user_name     |
+---------------+
| Ambiya Shaikh |
| Fariha Shaikh |
| Nabila Kazi   |
| Alka Magar    |
+---------------+
4 rows in set (0.000 sec)
```

Conclusion

An online movie booking system is a digital platform that allows customers to access the services of a business, reserve seats and buy tickets. This platform provides details such as what time a movie will be played, what seats are available and so much more.

Thank you