Movie Booking System

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We have made a movie ticket booking system using Python(Tkinter) and Sql. our database is on an online cloud so that any one can download our setup file of our program and avail our booking system directly connected to our online database.
Our project has 2 parts namely:-
1)Customer Interface
2)Admin Interface

1)Customer Interface:-
The very first page of our customer interface has an option to login or sign-up for the customer. For the login page customer has to enter his email and password with which he has signed-up before. To check the authenticity of the credentials we run a sql query :-

```
mycursor.execute('''select case when (%s in (select distinct email from customer) and %s in (select distinct password from customer)) then 1 else 0 end as val''',(email,password))
```

Which returns whether the following credentials exist in the database as 0 or 1.
For the sign-up page when the customer enters his details and clicks the sign-up button the following update query(a) is executed to add the user credentials to the database. another query(b) also ensures that the email is a fresh email which is not already in use.
(a):-

```
mycursor.execute("insert into customer(name,email,password) values(%s,%s,%s)", (name, email, password))
```

(b):-

```
mycursor.execute('''select case when exists(select email from customer where email=%s)then 0 else 1 end as val''',(email,))
```

After this we reach the movies page which shows us which all movies are available. Names of the movies will be fetched from our database form the Movie table using the following query:-

```
mycursor.execute('select ID,name from movie')
```

The names of the movies will be displayed and the customer can select one movie at a time from the radio-button. We then reach to the theatre and hall page where all the shows of the selected movie which are available and in what all theatre,halls will be displayed on the screen. This data would be fetched from the Shows table using the following query:-

```
query = '''select s.ID,t.name,start_time,show_date,hall_ID
                from shows s,theatre t
                where s.movie_ID=%s and s.theatre_ID=t.ID
                order by show_date,start_time'''
```

After this when a person selects a movie and a show for that we move to the hall page where all the available seats for the specific show would be present and the person can manually select the open seats. The page uses the Booking table to check which all seats are booked. Which are then delivered to the interface. Also, the page uses the seatinline table to check which all seats are on the process of being booked and blocks those seats which have been accessed within 10 minutes time of someone else booking it. The query used is:-

```
mycursor.execute('''select seat_ID from books where
show_ID=%s''',(show_ID,))
```

```
mycursor.execute('''SELECT seat_ID from seatinline where show_ID=%s and
book_date=curdate()and (cast(curtime() as time)-cast(book_time as
time))<=1000''',(show_ID,))
```

```
mycursor.execute('''insert into
seatinline(seat_ID,show_ID,book_time,book_date) values
(%s,%s,curtime(),curdate())''',(i,show_ID))
```

The above query updates the.

Then we move onto the payment page and execute the following queries

```
mycursor.execute('''insert into payment(amt,pay_time,pay_date)
                          values(%s,curtime(),curdate())''',(fl_amt,))
```

```
mycursor.execute('''insert into books

values(%s,%s,%s,%s)''',(custId,i,show_ID,pay_ID))
```

```
mycursor.execute('''delete from seatinline where seat_ID=%s and
show_ID=%s''',(i,show_ID))
```

The first query inserts payment details in payment table
The second query inserts the booking seats in books table
The third query removes the booked seats from the seatinline page as they are no longer in a transition phase but are already booked.

Admin Interface

```
mycursor.execute('''insert into movie(name,language,genre,length)
values(%s,%s,%s,%s)''',(name,language,genre,length))
mycursor.execute('''insert into theatre(name,road,city,pincode)
values(%s,%s,%s,%s)''',(name,road,city,pincode))
mycursor.execute('''insert into
shows(movie_ID,hall_ID,theatre_ID,start_time,end_time,show_date,price)
values
(%s,%s,%s,%s,%s,%s,%s)''',(mov_ID,h_ID,t_ID,val1,en_time,val2,val3))
```

The above queries are used to update the movie,theatre,hall and shows tables.