**Mini Project – Movie Ticket Booking System**

**Models:**

* User(id, name, dob, email, role)
* UserDetails(Userid, password, passwordhashkey)
* Movie(id, name, genre, description, Director, cast, duration)
* Theatre(id, name, location)
* Screen(id, name, seats)
* Showtime(id, time)
* Booking(id, no of seats, total, status, payment status)
* Seat(id, row, column, status)
* Review(id, rating, comment, reviewdatetime)
* Cancellation(id, reason, refund, status)
* CancellationDetails(cancellationdetailsid, seatid)
* Snack(Snackid, price, name, qnt)

**Business Logic**

**User Logics:**

* Add a user (registration)
* Login as a user (JWT token generation)
* Browse all the movies
* Browse all the theatres where the movie is currently streaming
* Browse all the showtimes for the movie in that theatre
* Make a booking for that movie in that theatre and select the seats
* Move to payment if the payment is successful then it seats status must be booked, if not the status of seats will be blocked but for other users it must be booked for an 5mins then after it must change to active.
* If the booking is successful and if then the user is decided to cancel a ticket then that ticket alone must be cancelled.
* Updating booking object and allow refund only before 20mins and more of the showtime and a small fee must be deducted from that particular ticket depending on the time it was cancelled If you opt to cancel the tickets 2 hours or more prior to the show, 25% of the base ticket price is charged as a cancellation fee & the rest 75% of the base ticket price is refunded.
* The user must be able to give reviews for a movie
* User can view the reviews for a movie.

**Admin Logics:**

* Add a movie
* Add a theatre
* Add screens to that theatre
* Add showtime and movie that plays at that time.
* Add seats one by one or instead add seats with some parameters in place like get the price of the seats for range of rows [eg : rows A-W will be having a price of 170per ticket and X-Z will be having a price of 60rs autogenerate rows using these parameters] from a DTO.
* Add a Snack Item, Update the quantity of the snack item.