BookMyShow

1. It should be able to list the cities where affiliate cinemas are located.
2. Each cinema can have multiple halls and each hall can run one movie show at a time.
3. Each Movie will have multiple shows.
4. Customers should be able to search movies by their title, language, genre, release date, and city name.
5. Once the customer selects a movie, the service should display the cinemas running that movie and its available shows.
6. The customer should be able to select a show at a particular cinema and book their tickets.
7. The service should show the customer the seating arrangement of the cinema hall. The customer should be able to select multiple seats according to their preference.
8. The customer should be able to distinguish between available seats and booked ones.
9. The system should send notifications whenever there is a new movie, as well as when a booking is made or canceled.
10. Customers of our system should be able to pay with credit cards or cash.
11. The system should ensure that no two customers can reserve the same seat.
12. Customers should be able to add a discount coupon to their payment.

Actors → System, Admin, frontDesk, Customer
- managing notifications
- CRUD movies
- CRUD bookings
- Registered → Book, View, Cancel, CRUD movietickets
- !Registered → View

Usecases → Search movies, CRUD bookings

Select city, Select theatre, Select seat → show status, block seat → Add coupon → Payment → Complete, Refund

Association →
Composition ▶

adds

Account — id, Password, Status
extends
Person — Accounttype
RBAC — person_id, type, List<Actions>

movie metadata — id, name, Actors/genre, running-time etc

Admin — +theatre, +show, makes
Customer — +bookings, makes
frontDesk — +booking

Show — id, movie_id, hall_id, start_time, end_time, date

City — id, name
Theatre — id, name, location, city_id
Hall — id, name, theatre_id — plays in
Seat — id, type, hall_id — is in, extends
ShowSeat — show_id, seat_id, is_reserved, price — contains

booking — id, cancels(+showbookings), customer_id, show_id, txn_id, List<ShowSeat>, Status, timestamp

against, is in

Payment — txn_id, totalamount, coupon_id, cost, Status, mode