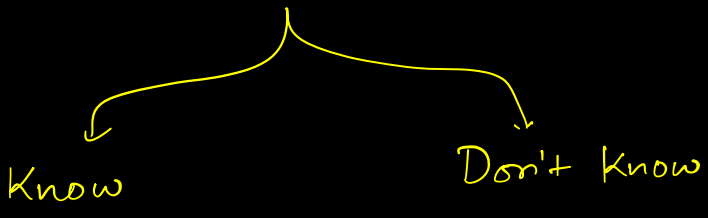
Today's Agenda :- Design Book My Show

1) Overview
2) Req Gathering } HW
3) Class Diagram } HW

Design BMS :-

1) Overview of the system.
   ↳ understand the problem statement.



→ Align yourself with interviewer's understanding.

Some Questions ?

1) what to design ?
   → CLI application
   → Entity Design
   → Web Application

The diff is the way you take input from the user

2) Do we need to persist the data ? => Yes
   ↳ database (MySQL)

3) Focus on movie ticket booking.

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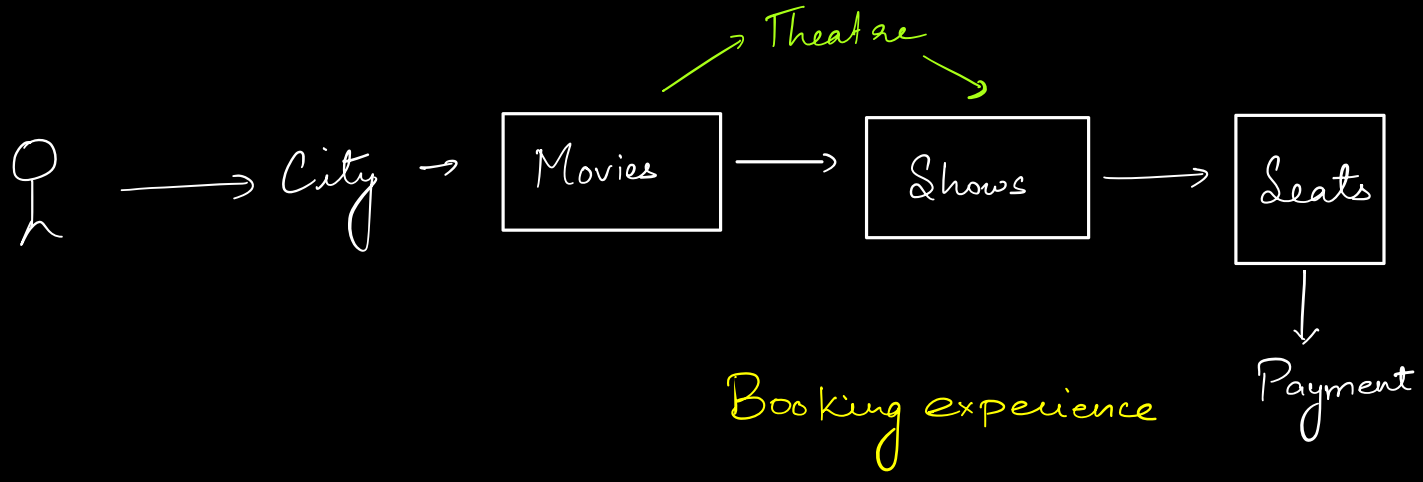
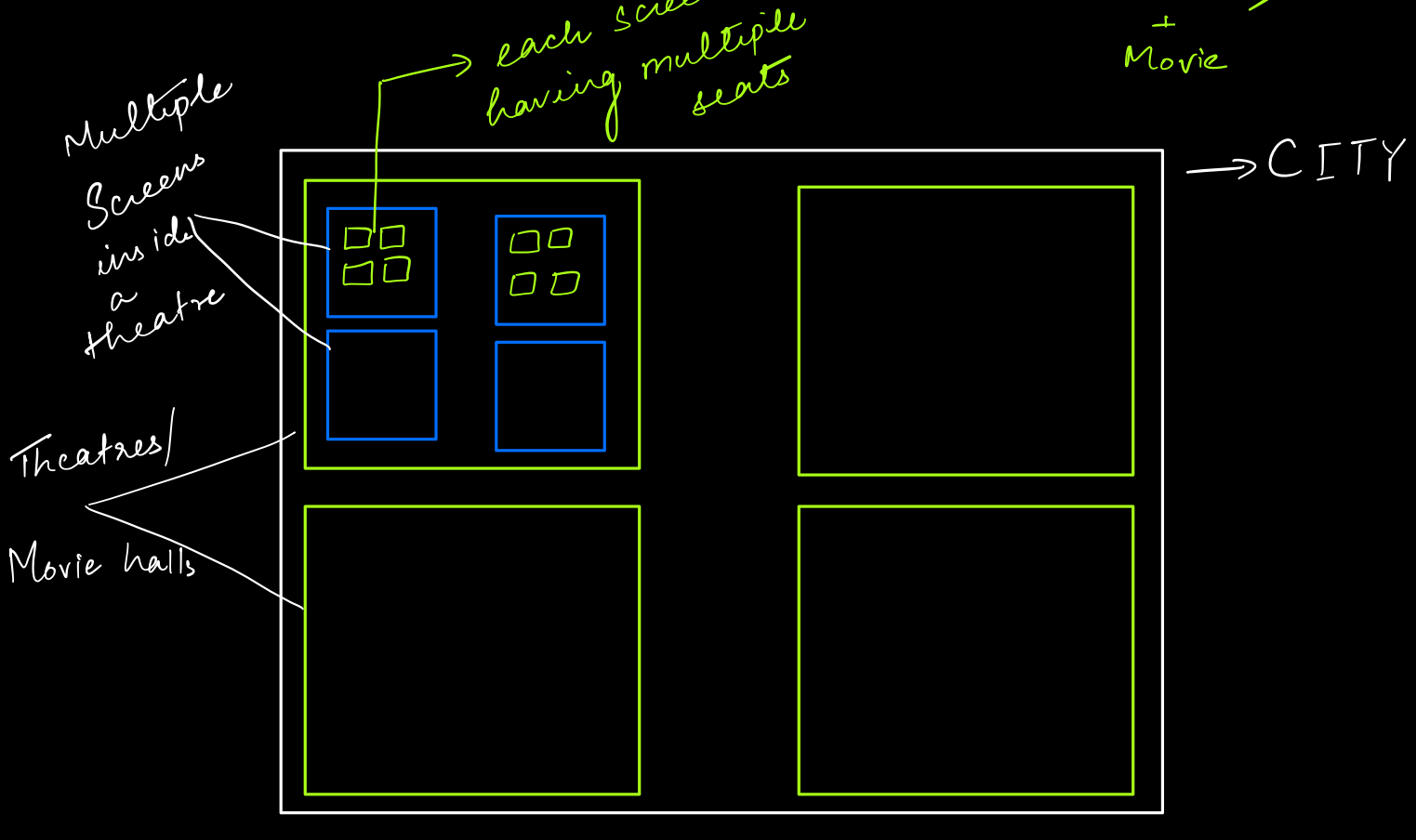
2) Requirement Gathering :- (largely depends on your visualization)



Booking experience

Show = f (theatre + Screen + StartTime) + Movie



1) User should be able to book movie tickets.

2) User should be able to select the seats while booking

3) BMS supports multiple cities, each city with multiple theatres.

4) Support only movie bookings.

5) Each theatre will have multiple screens & each screen will have multiple seats.

6) One screen can run one movie at a time.

7) Users book seats for a particular show.

8) Show is a particular movie running at a particular date, time & screen.

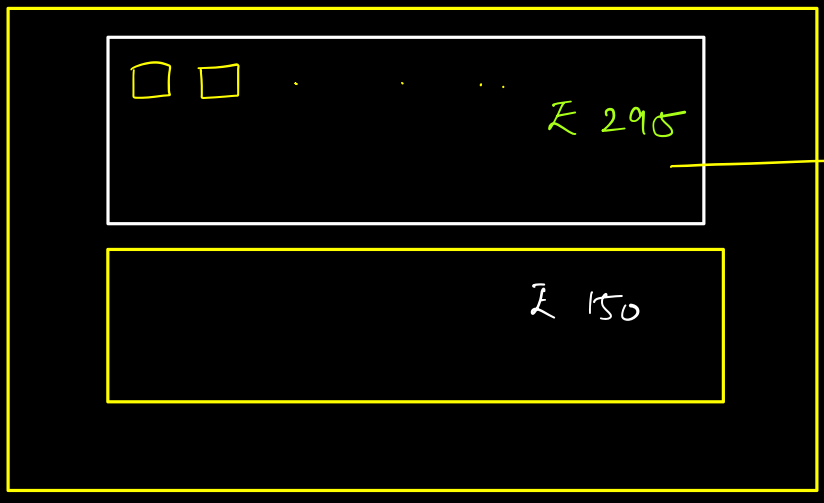
9) BMS lists down all the movies running in a city, & for each movie there can be multiple shows running.

10) In one booking, users can select maximum 10 seats.

11) No 2 users should be able to book same seats for same show.

12) Price will be a function of Show + Seat Type

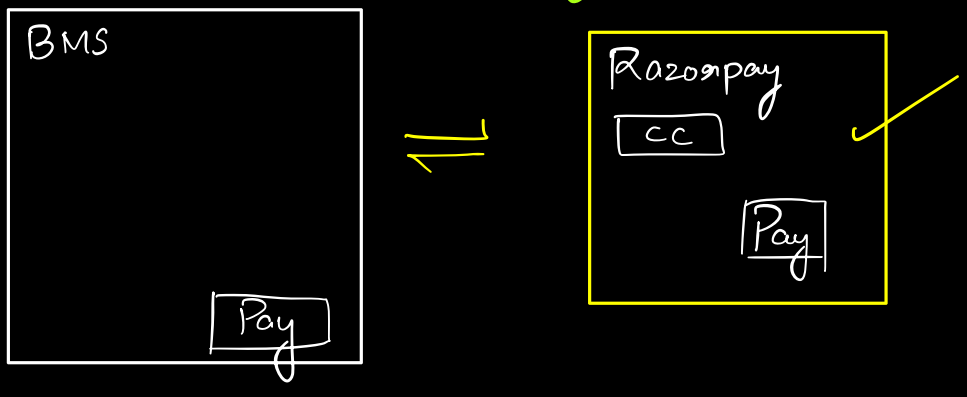
Show: Movie, Date & time, Screen



→ all seats of same seat type will have same price

13) For every movie, store it's cast, languages, features, genre etc.

14) Only online payment is allowed. Payment will be handled by 3rd party Payment gateways.

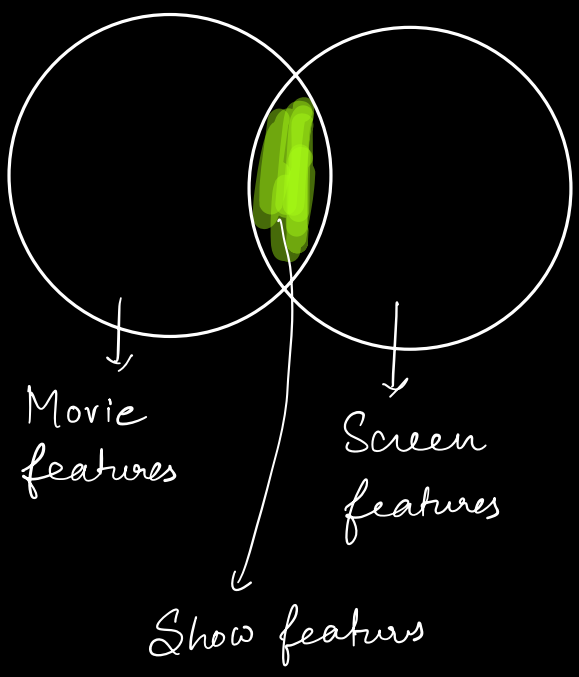


15) Partial payments are also supported.

1000 ₹ → 200 ₹ wallet (P1) ✓
1000 ₹ → 800 ₹ Debit (P2) ✓

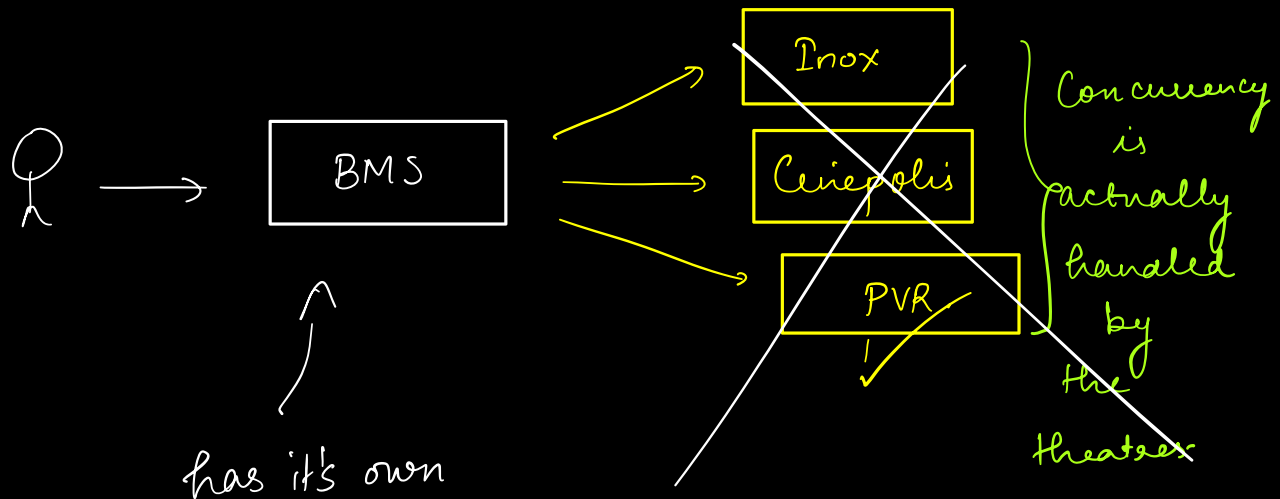
16) Each movie support multiple features

2D | 3D | IMAX (Visual)
DOLBY_ATMOS (Sound)
(Languages)



17) Seats can be of different types.

18) BMS is just an aggregator.



assume BMS is going to handle the concurrency. (extra learning)

Homework : Please complete the class diagram before next session.