

- i) Intro Spring Boot
- ii) How to start coding
- iii) Req. gathering BMS
- iv) Class diagram \longleftrightarrow model coding
- v) ORM introduction

Java 17 +
IntelliJ \Rightarrow Community edition
Postman
DB \Rightarrow SQL \Rightarrow MySQL, PostgreSQL . . .
 \downarrow
IDE \Rightarrow DBEAVER

Spring boot \Rightarrow helps creating BE server
very very easily

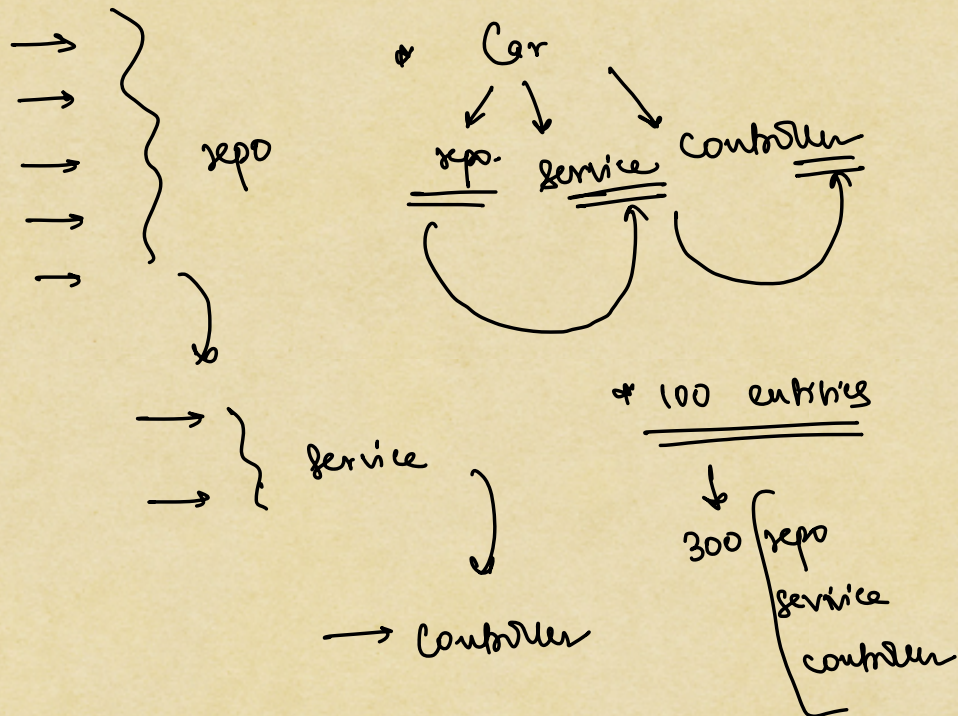
~~Java EE \rightarrow Spring \rightarrow Spring MVC \rightarrow Spring Boot~~
~~[Servlet + JSP + JDoc]~~
~~1 1 1~~
~~3.0~~

↓
BE

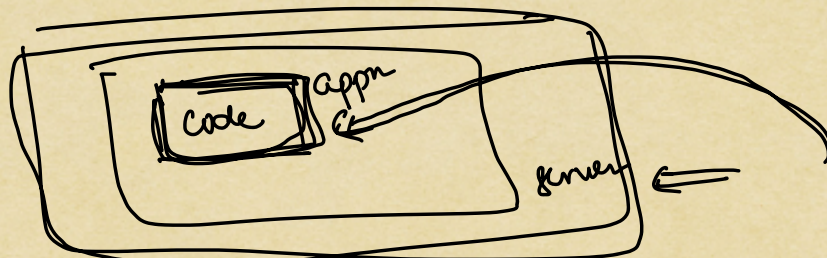
↓
FE

↓
SQL
queries

Spring boot ⇒ IOC container
↓
* Inversion of control
* Dependency Injection



early allows to create a BE server

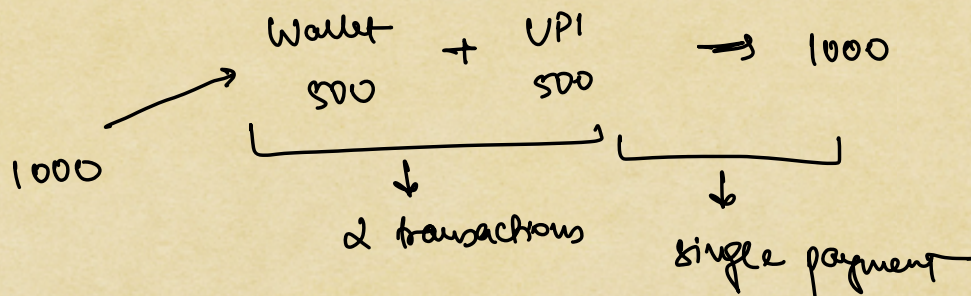


⇒ Requirement gathering :-

- i) User can book tickets for movie.
- ii) User can select the seats for movie
- iii) User can select their own location
- iv) User can select their choice of theatre & shows.
- v) Each theatre can have multiple ^{→ auditorium} [audile] and can show multiple movies at the same time.
- vi) User can do payment and receive tickets for their respective booking
- vii) Diff. types of seats can be present
⇒ PLATINUM, GOLD, SILVER
- viii) User's can see all movies running in their region and for a particular user can see all possible shows in all possible theatres.
- ix) Auditorium's can have multiple features like IMAX, 3D, 2D, DOLBY etc.
- x) Movies can have multiple features like IMAX, 3D, 2D, DOLBY etc.

2i) we can only support online payments
(UPI, CARD)

2ii) we can have partial payments
or
multi-transaction payment



2iii) we can have multiple transactions under 1 payment

2iv) For movies, we can store certain details,

name

description

actors

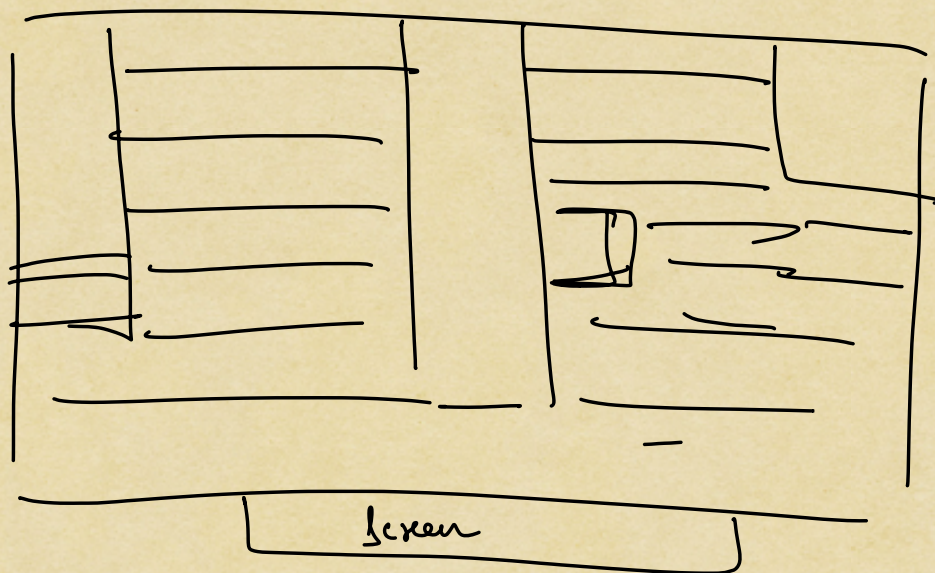
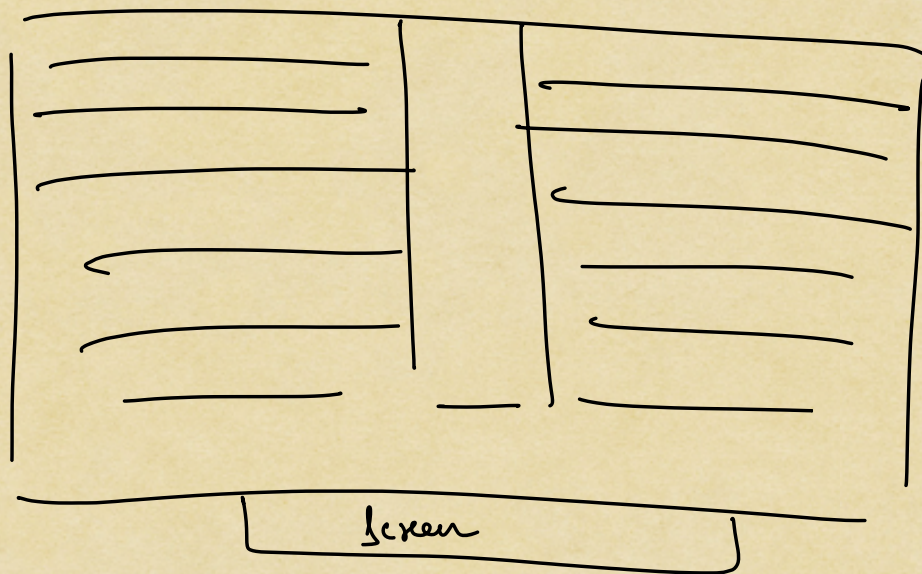
release date

poster → link to image

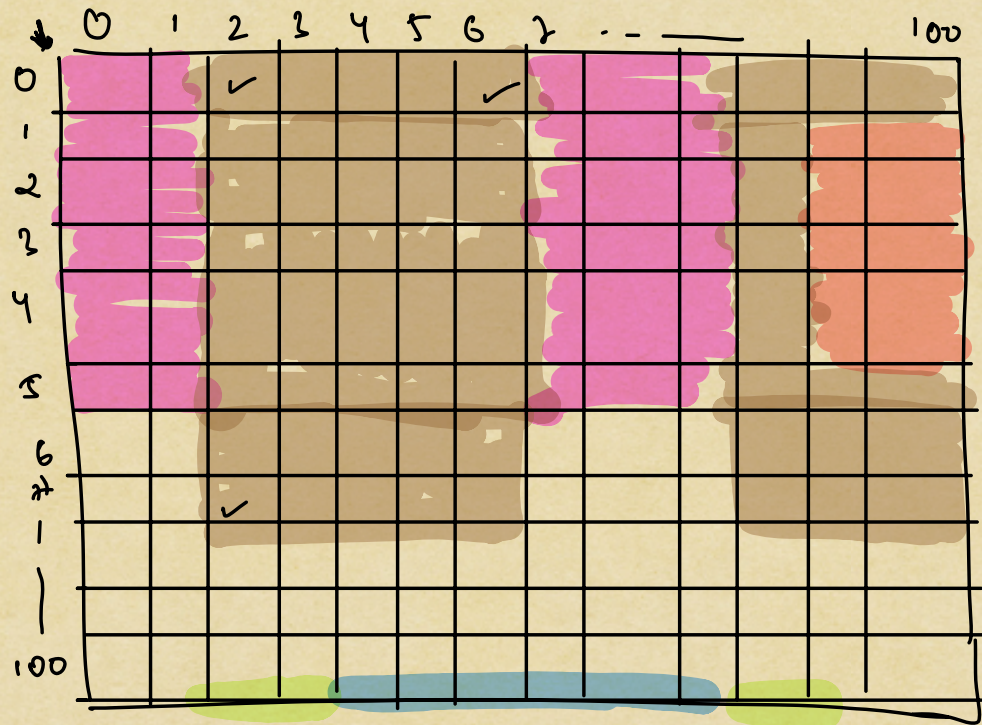
trailer → link to video

ratings

⇒ Seating arrangement



theatre → auditorium



Seat [00 to 06,]
[02 to 02]

FF ⇒ 100 X 100

⇒ Strings

String s = "cat";

↓

s = "dog";

→ s = s + "rat" ⇒ "catrat"

String s = "ball";

s = s + "bat";

print(s) ⇒ "ball"

"ballbat"

error

①

②

③

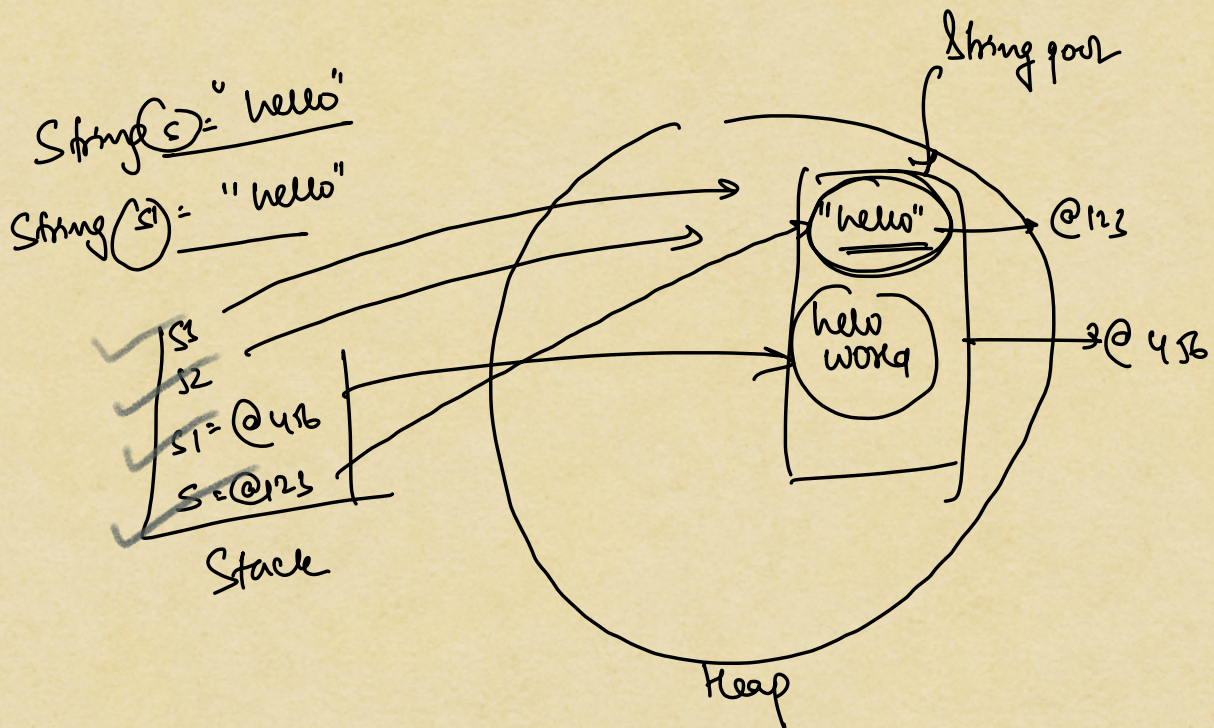
" →
→
→ "

Common in strings

↓

duplication

String pool
↓
memory inside heap



`s1 + world = "hello world"`

`print(s1)` → hello world

`print(s2)` → hello

(s2)

(s1)