

LHD-3 (15 classes)

Tic Tac Toe

Parking lot

Book my show  
splitwise

Springboot

Project

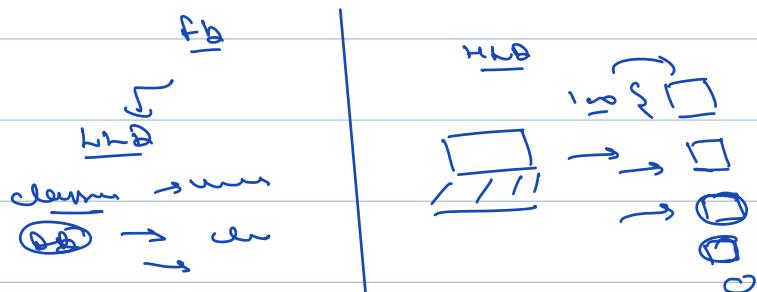
Break

Agenda :-

- 1) Types of LHD interviews
- 2) How to approach
- 3) Design a Pen.

## Types of HRD Interviews

Theoretical	Design	Machine Coding
→ old MNC's, Banks.	→ problem solving	→ standards
→ Test knowledge	→ case study amazon, wal-mart, <u>Paypal</u> .	(flipkart / myntra) Cred / Zepeto / zonato.
→ OOPS / design pattern	→ 30 - 45 mins.	→ Design + code
→ 30 - 45 mins	→ code the classes.	→ write end to end feature. 2 - 5 lines.
→ no code, at max <u>example code</u> .		



Design	Machine Coding
<ul style="list-style-type: none"> <li>→ Single line problem statement ,</li> <li>→ Gather Requirements</li> <li>→ class diagram</li> <li>→ Schema diagram</li> <li>→ Code for the classes</li> <li>→ follow up .</li> </ul>	<ul style="list-style-type: none"> <li>→ Detail document of the <u>requirements</u> ,</li> <li>→ clarify the seqn.</li> <li>→ class diagram</li> <li>→ schema diagram</li> <li>→ complete end to end feature .</li> <li>⇒ follow up .</li> </ul>

## At Scales

- ① line P&.
- ② gathering req.
- ③ classification
- ④ class Diagram
- ⑤ schema diagram.
- ⑥ coding functionalities.

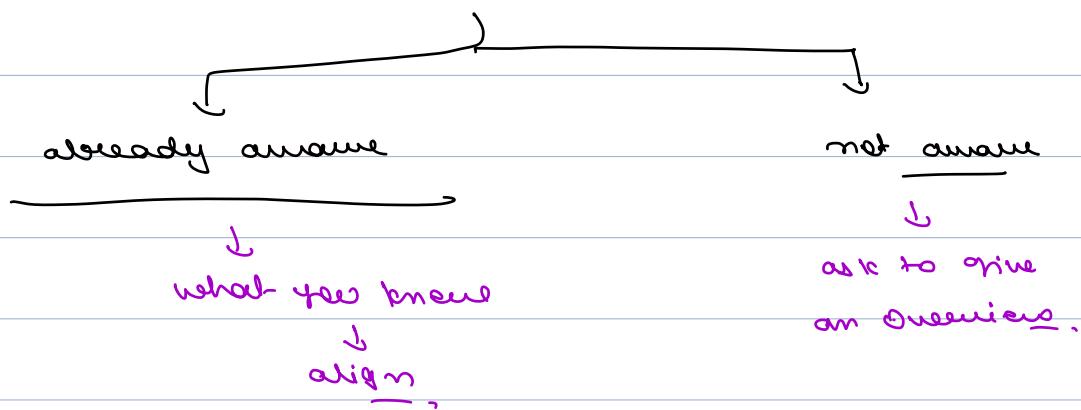
## Design a Pen

Step 0 :- Get an Overviews,



align your thoughts  
with interviewee on  
problem statement.

### Overviews



what do you want me to design?

→ entity

→ real time system.

Do I need to persist data



How do I interact with the client?

→ Hand code

→ Command line,

→ Rest API  $\rightarrow$  Project module



Step 1 :-

Gathering & clarifying reqm

Note down.

- Suggest / features & ask if they want these to be supported.
- 5-8 features.  
↳ visualize.

Any physical entity that can write behaviour is a pen.

Supporting gel pen, ball pen, fountain pen.

Gel and ball pen will have a refill, others will not have a refill, and refill will have ink.

Different inks have different colours.

For every pen, need to store the brand, name and price.

Pen can be either closed via cap or via click buttons.

Often refills have different nibs radius,  we have to store the radius of nibs 

The fountain pen itself has nibs.

→ Design diff. clauses

Break

10:06pm - 10:15pm

## class diagram

①

visualise the reqmnt / entity.



②

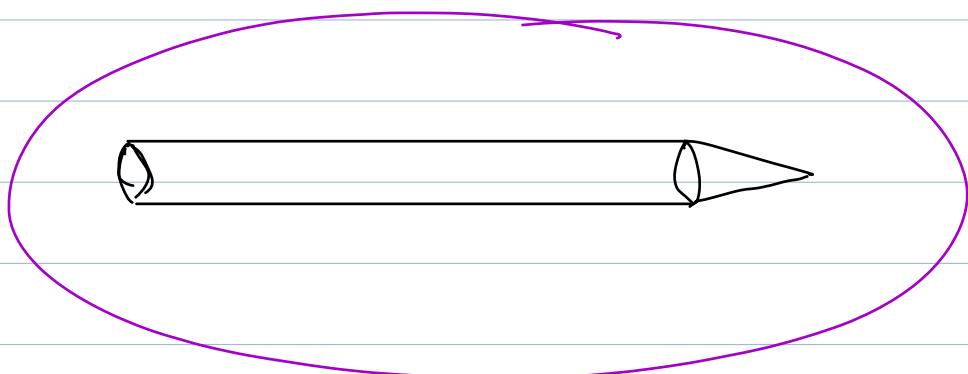
By identifying the  nouns .

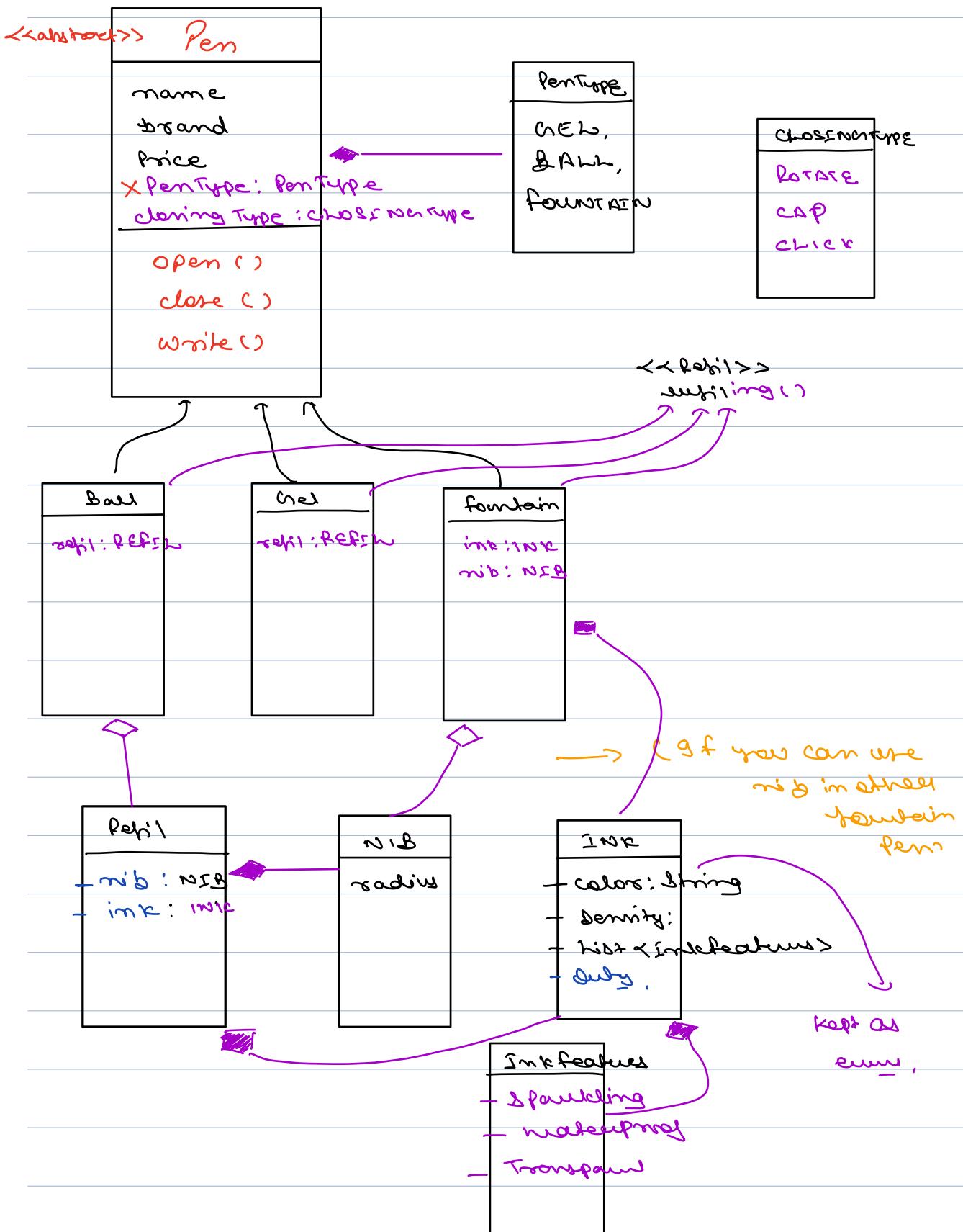
classes

gmt surfaces

enums

design patterns ,









Schema design

MVC Architecture

Begin of TIC TAC TOE

Associations



SUN	MON	TUE	WED	THU	FRI	SAT
11	12	13	14	<u>end</u> 15	<u>16</u>	17

SUN	MON	TUE	WED	THU	FRI	SAT
18	<u>Batchi</u> 19	20	C	22	23	24

WHD-1 mech,