

LLO-3 (15 classes)

Spring Boot

Tic Tac Toe]
Parking lot]
Book My Show]
splitwise .]

springboot

Agenda

- ① Types of LLD interviews
- ② How to approach
- ③ Design a Pen

Type of LLD interviews

Theoretical	Design	Machine Coding
<ul style="list-style-type: none">- old MNC's, banks- Test Knowledge- OOPS / Design Pattern- 30-45 mins- No code, at max give example code for question	<ul style="list-style-type: none">- problem Solving- case study- amazon/walmart/paypal- 30-45 mins- code the classes, schema diagram.	<ul style="list-style-type: none">- startups- flipkart/Myntra/CRED/Razorpay/Zomato/Zepto.- Design + Code.- write end to end working code.- 2-5 hours.

Design	Machine Coding
<ul style="list-style-type: none">- given with a single fine problem statement.- Gather requirements- class diagram- schema design- code the classes- follow up.	<ul style="list-style-type: none">- Detailed document of requirements- clarify the req^m- class diagram- schema design- complete end to end features.- follow up

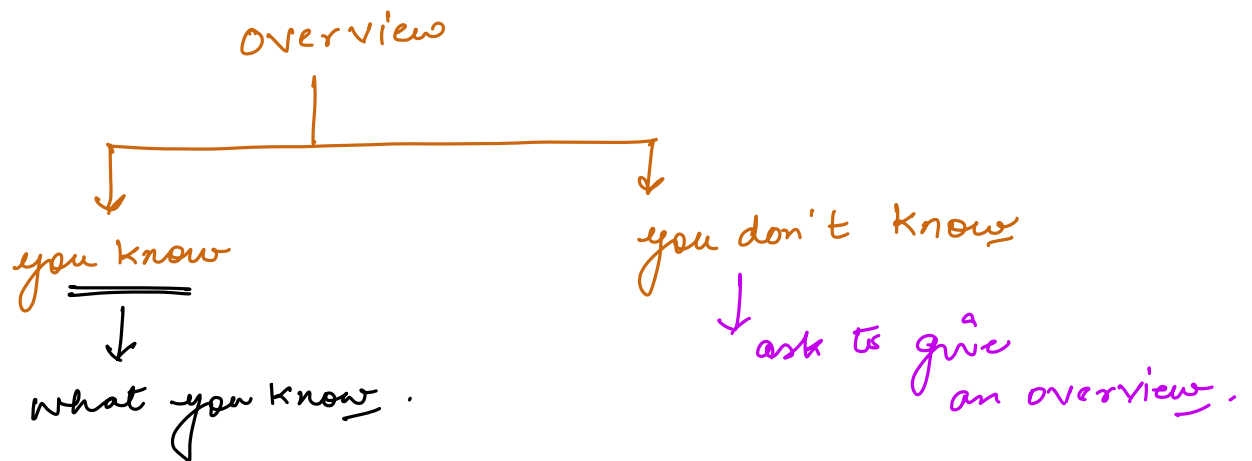
At scale (upcoming sessions)

- 1 line PS
- gather requirements .
- clarifying req
- class diagram
- schema
- code features .

Design a Pen

Step 0: get an overview

↓
align your Thoughts
with the interviewer
on the problem statement



① What do you exactly want me to design

- Entity

- real software system -

② Do I have to persist the data?

↓ Yes
database

↓ No
In memory.

③ How do I interact with client?

Command design Pattern →

- Hardcode	-
- command line	-
- REST API	-

 } LLD3
Project Module -

Step 1:

gather and clarify req^m

Note down

- suggest idea/features & ask if they are required to be supported.
- 5-8 ideas/features - \rightarrow visualise
- edge cases/ future scope.

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, do we have to store the radius of nibs?

The fountain pen itself has nibs.

Pens should be able to write.

We can close/open the pen.

We should be able to refill pens.

