Today's content

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

Types of LLD interview.

- 1. Theoritical
- 2. Design
- 3. Machine coding

1. Theoritical

- 1. Service based Infatier (old tech companies.
- 2. Test your knowledge rather than testing how you apply your knowledge.
 - -> OOPS | Design Patterns / Tava.

Sx: Static keyword.

3. Timed [45-60 minutes]

Ex: Singleton -> Please Write code -> Handle conculency.

Given j.
2. Design [Product based companies]. [I line statement] [I hour)

0: Design a stm similar to flipkart

What are they testing?

thow do you apply the theory that you have learnt to realtime problems.

What is expected out of you?

- 1) 5-8 features that you should list down by taking an explicit confirmation from your interviewer.
- 2) class diagram, schema diagram.
- 3) A follow up question, how to handle that?

3. Machine cooling [startups, Razorpay, Flipkart _ -] (2hr-3hr)

Q: Details of what you need to achieve?

What are they testing?

How do you apply the theory that you have learnt to realtime problems.

Also, implementation skills.

What is expected out of you?

- 1. Understand the requirements, Ask for clarifications / hr.
 2. Class -diagram, suhema dia
- 3. 1.5 hours you'll sit 4 write code.
- 4. Test what you've done.

 4 follow-up questions.

- 1. Single line case study,
- 2. How you structure the code.

 How do you bring clarity for
 ambiguous system.
- 3. Create a class diagram which will handle the above requirements frozen on?

 Schema diagram
 - 4. Some clames/interface/design
 Patterns code on the paper.
 - 5. Follow ups.

- 1. Detailed requirements.
- 2. Clarity of requirement that you've got from the given doc.
- 3. Come with class-diagram.

- 4. Write code on your machine for all the requirements
- 5. Follow upf.

Design a Pen

Step 0: Overview of system.

You know something about the System

Explain a bit of make standing of the slm is correct.

You do not know anything

Ask the interviewer to give an overview.

- 1. Do you want me to create
 - (i) entities
 - (ii) real world SW design (working code)
- 2. Do you've to persist data?
- 3. thus user will interact with the system?

 [Rest API's, command line, hardcode].
- Step 1: Gather and clarify requirements,
 - 1. Start suggesting features and ask if he needs it frot.
 - 2. (5-8) core features.
 - 3. Try to visualise the sly 4 suggest some ideas.
 - 4. Note down the pointers that you feel are needed soing ahead.

Think a little of what fitter enhancements can come in.

What's your defn of pen?

1. A physical entity that writes is a pen.

Yes

2. Should I support diff. Types of pen? Yes;

Gelpen, Ballpen, Fountain Pen.

- 3. Gel len, Ballen can have refills, FountainPen won't have.
- 4. Refills can ink,

- 5. Diff inks can have diff. colors.
- 6. Pens can have cap or click buttons.

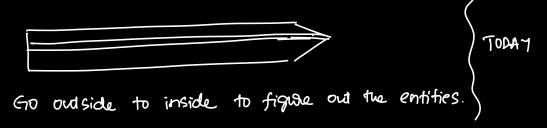
Behaviours

Should all entities support this behaviour.

- 1. Pen Should write
- 2. Refill the Pen
- 3. Open I close the pen
- -> Yes
- -) No for fountain Pen
- -) work via cap / button.

Class diagram

1. Visualising the SIm/requirements.



2. By finding nouns in your requirements.

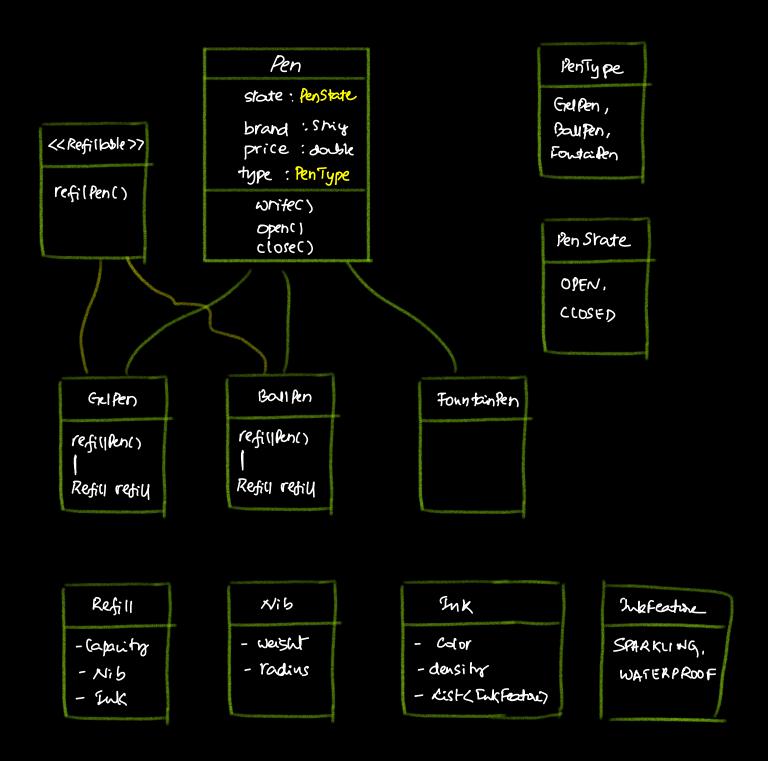
Parking LOT, BMS, Splitwise

(1) Visualisation

entities, interface, enums around your entities.

Show usage of any Design-Patterns You're planning to use.





Choose enum type over boolean.