

Type of LLD/OOD interviews.

↓ Object Oriented Design.

1) THEORETICAL.

↳ ~40-45 mins.

⇒ ODPs Knowledge round.

⇒ Big MNC's.

(Amazon | DE Shaw | Arcesium | JPM)

⇒ Theoretical questions abouts ODPs.

2) DESIGN ROUND. (~45 mins).

→ Problem Statement (case study).

⇒ NO Working Code.

⇒ Microsoft | Amazon | Oracle | Walmart | Adobe . . .

3) MACHINE CODING. (~2.5 hours)

↳ Extension of design round.

⇒ Design round + Working code. + Discussion
(45 mins) + (~1.5 hours) (~15-30 mins)

⇒ Top tech & fast growing Startups.

(Phonele, Cred, Flipkart, Gojek, Razorpay, Sniggy,

DESIGN ROUND.

→ Single line problem statement. (Case study).

① Overview.
 Know the system
 Don't know the system

② Requirement gathering. (~5-8 core features).
 ↳ 10-15 mins.

③ Clarify requirements. (Edge cases).

④ Use case diagram. } ~15 mins

⑤ * Class Diagram.

⑥ Schema Design. } ~10-15 mins.

MACHINE CODING.

Design round + Working code.

40-45 mins

~1.5 hours.

kind of Systems.

→ Entity.

→ Interactive System.: No persistence (DB).

→ Web App. → BMS.

↳ MVC.

_____ *

Design a Pen (Entity).

→ Overview.: Anything that can write is a Pen.

→ Requirements.

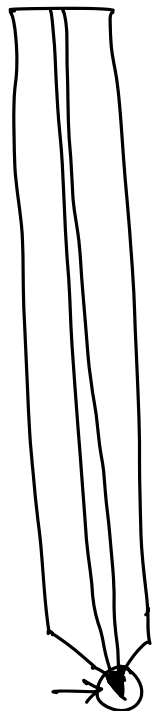
① Different type of pens. (Ball Pen, Gel Pen, Fountain Pen).

② Some pens will have refill & some pens won't have refill.

③ Fountain pens will directly have Ink.

④ Refill will have Ink.

⑤ Ink will have a colour.



- ⑥ for some pens we might be able to change the refill but for some pens we might not be able to change the refill.
- ⑦ fountain pens will have a Nib directly & other type of pens will have a refill & refill will have a Nib.
- ⑧ Nib can be of different sizes.
- ⑨ Ink can have features like WATERPROOF, TRANSPARENT, FRAGRANCE,

Behaviours of Pen

↓
Write()

Every pen will write in its own way.

⇒ write() method will have different implementation for different type of pen.

⇒ Strategy Design Pattern.

↓
refill()

↓
Some pens can be refilled & some pens can't be refilled.

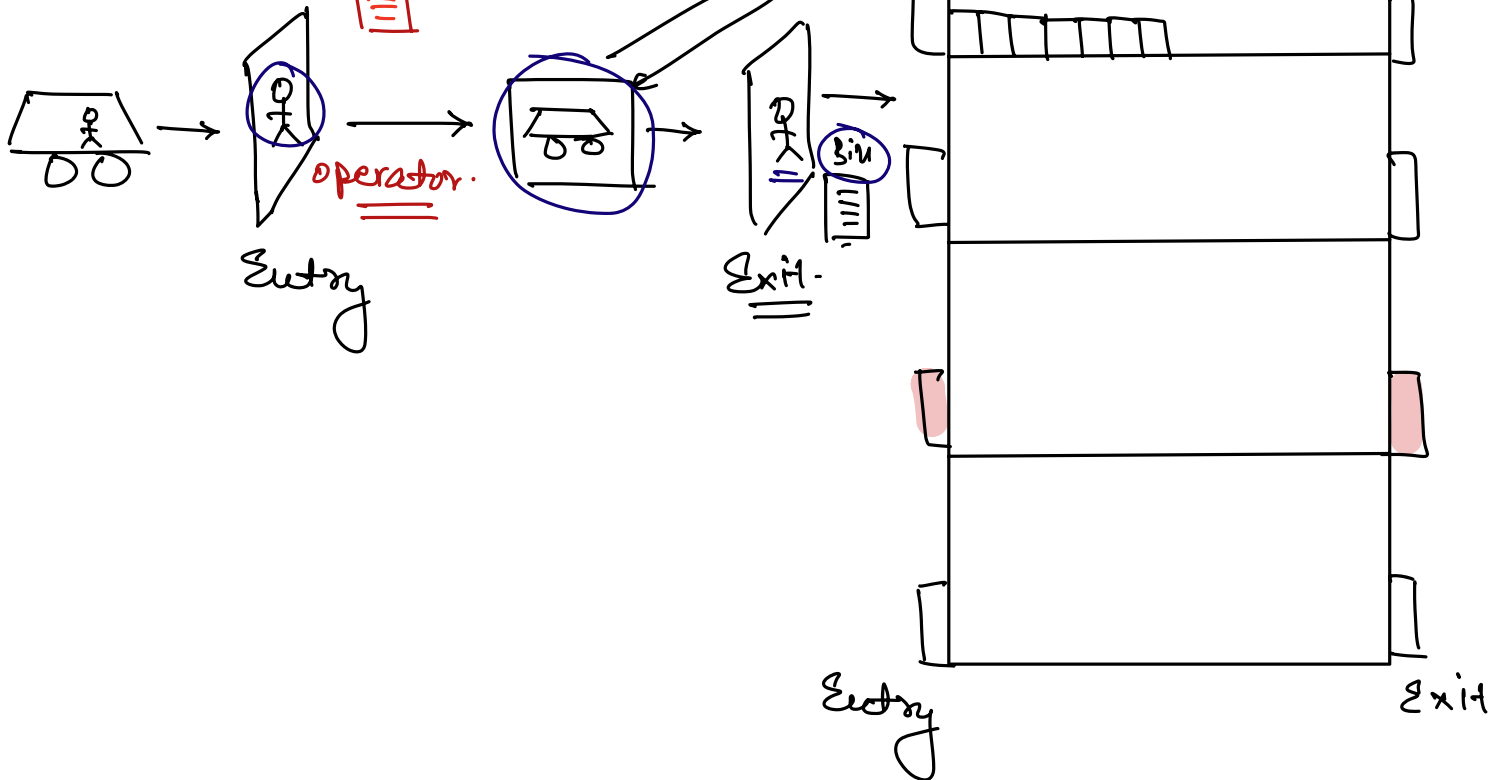
CLASS DIAGRAM

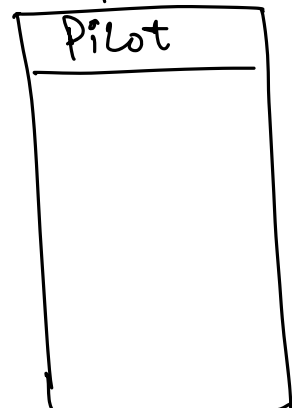
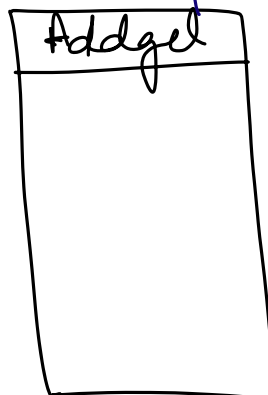
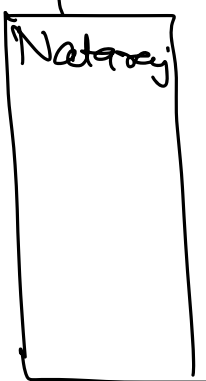
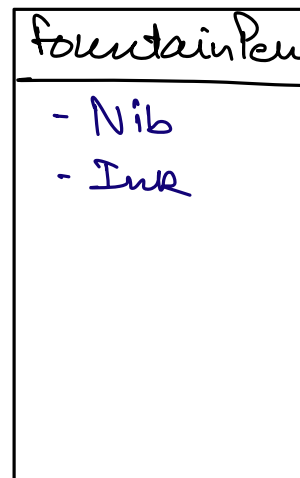
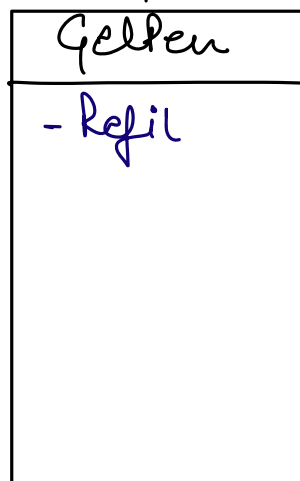
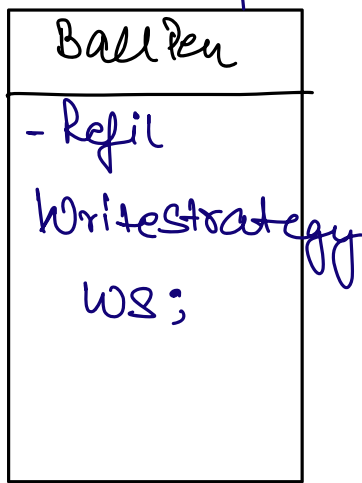
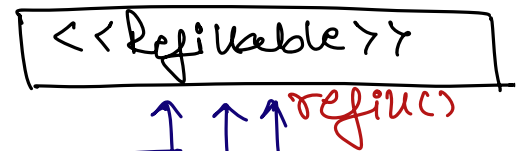
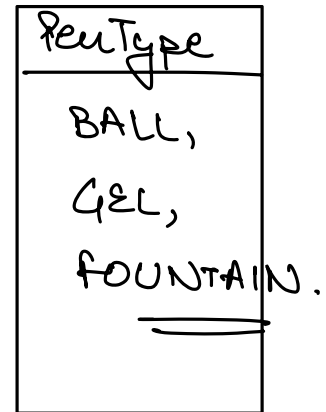
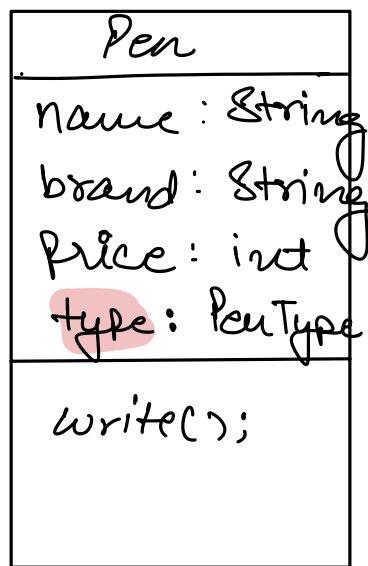
→ Visualisation.

→ Nouns in the requirements.

Parking Lot.

User Journey.





write()

```
WS = new WritometerStrategy()
WS.write();
```

