How to approach design problems How to approach LLD interviews Derign a Pen. Class starts at 9:10 PM Types of LLD Interviews Design Theoretical Machine (1) Problem solving O Old tech companies - Oracle, Panks Vorence DAsked in most of the Often there is (3) Test your Knowledge Startups a care Study/ design BMS G/ Flip Kart, cg: enplain what is singleton I honell Nyntraa (3) Generally asked in Big MNC s pattern 30-45 mins, 3-4 -Miwosoft 2) They want Yues -) Amazm doess -> Walmart

> no code is required, at -> Paypal I key enpert (8) They want to man a very high people to sel, whethere you level implementations come up are able to apply with Your Knowledge design flode a ~ 45 mins / ques war Ling Solution (4) Write code for 1 ques + follow | - ups few imp. classes at man, depends On interviewer Machine Coding Design (1) Typically given a (2) Entire doc with Single line Oues all the regs is G= Design BMS given, there would be some mandatory * egs and there could als a be some oftimal B) Quether all the regs.

D) Class Diagrams

Schema Diagrams

D) Write code for some

classes

DO Clarify the doubts / requirements

Diagrams

Machine Coders

25-30 mins

generally (90 mins =) unterviewer gots on mute / leaves Reys Mars Diagrams Scheme Diagrams Code the solution

25-30 mins =) Run the code/ Yollow up ques

At Scaler => 1 line PS

Gather the reass Clarifying ques Class Diagram Schema Diagram E 2 E working solution Deep Dive into each Step Design a len Before we start with step I, gather reals., there is a Step O = get an overview => to align your mind with what the interviewer has in mind, Overview you already you don't Know about the system Know about

The system (1) align yourself with the enjectation of the (1) Newfertly OK to ask cent writer w clarifying (2) Some questions you should Juest ons ask what enactly should Jon be buildig (1) Entity > Bird, Pen DReal world S/W design =) BMS = (2) (a) = Whether I should persist the data in a database or whether I should store in memory, Whether an input needs to be taken from the user -> Cmd line -> Rest API -> hard coding

STEP 1	Gather	Clarify	The
	regs.	· ·	

Instead of asking the interviewer directly I can start suggesting the features

Suggest 5-8 features and check with the interviewer if that is fine.

=) for coming rep with the fleatures, try to visualize the system

=> Jot down all the features

Think about the edge cases that can be there or might come in future.

Filling Ink - Refill the pen

Gel Pen, Ball Pen, Fountain Pen Defillable, or not-refillable

(3) Diff ink have diff color (4) For every pen, we need store brand, price, name, weight Pen van be opened via a color its a dickable pen, (6) Refill can also have diff. radus for nips tountain fan doent have arry refill Scharian Pen should be able to write We should be able to open/ love a pen We should be able to refill the pen.

STEP-2 => Cla	s Diagram
(=) Try to Visualiz => Or try to thin the norm [entitie	e the system K about all
=> You are not enperted with all the clauses (but imp clauses, inten maybe even design -	Jaces, enums,
Abstract Pen penstate: Penstatitype xame: String brand: String price: double pentype: Pentype The Type	Pentype BALL, GEL, FOUNTAIN
MosingType: MosingType write () open () close ()	Closing Type CAP, CLICKABLE Penstate Type

OPEN

