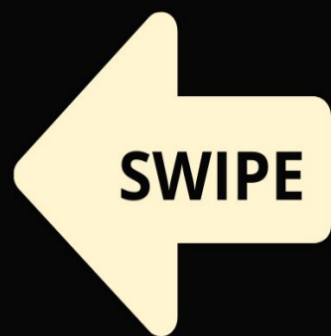




#ASLI ENGINEERING

What is System Design



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What is System Design?

set of requirements

- ↳ decide architecture
- ↳ decide components
- ↳ decide modules

how they interact
with each other

"Product Development"

almost

To solve the problem*

Why is it so popular?

Every single "tech" product is a "system" this has been "designed"
companies are building product and need you all to design it

Why understanding system design is important?

- This is what people do at work
- everything is practical
- you can see it from Day 1 of joining the company
- once you grow in your career,
you will spend 80% of time doing this.

System design is hence relevant for literally everyone!!

Side effects of System Design

- it will make everything ^{else} uninteresting
- you solve real problems, not something made up
- break down problem statement
- re-wires your brain to think in a structured way
 - ↳ considering all possible cases to deliver a great user experience!

What will we do when we design a system?

- break down problem statement into solvable sub-problems
- decide on key components and responsibilities
- decide on boundaries of each component
- touch upon key challenges in scaling it
- make our architecture faulttolerant and available