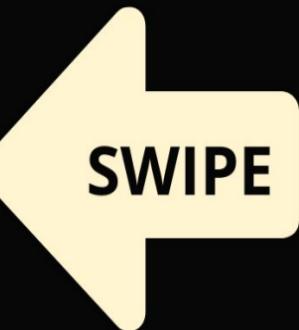




#ASLI ENGINEERING

# How to approach system design?



BY

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## How to approach System Design?

System Design is extremely practical

and there is a structured way to tackle the situations.

Take baby steps, no matter what!

Understand the problem statement

Without having a thorough understanding of the problem at hand

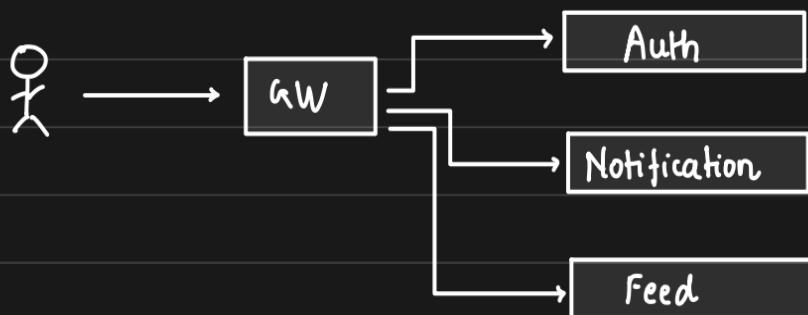
We would easily digress

break it down into components (essential)

Note: do not create components for the sake of it } to start with  
Note: create component that you know are must

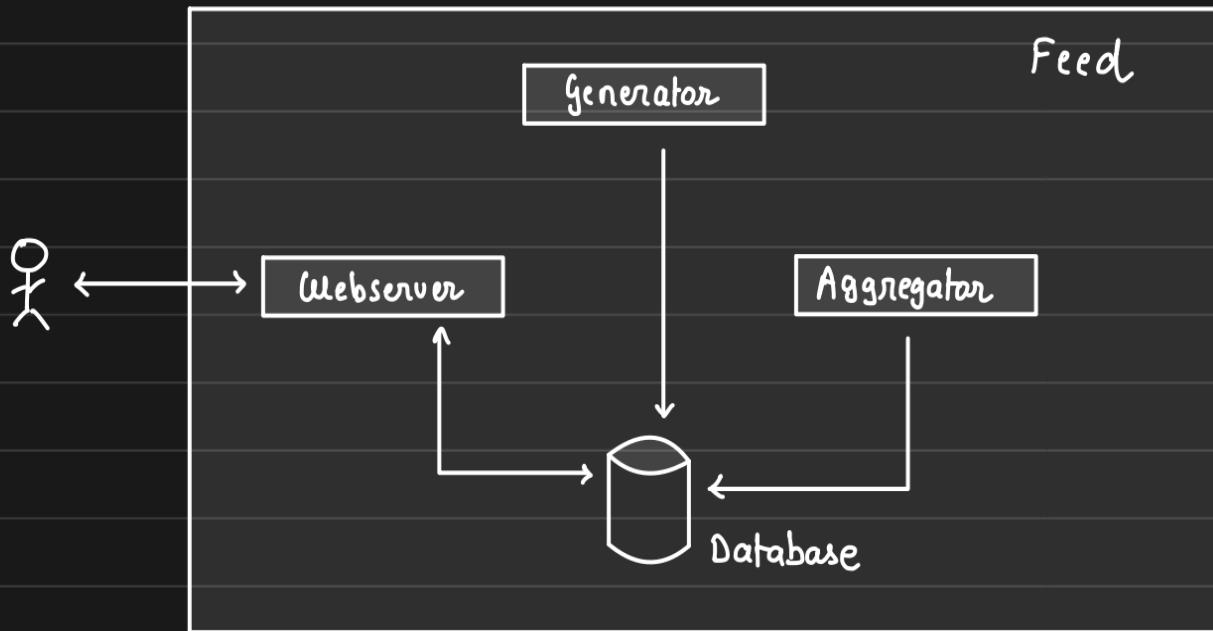
e.g.: Design Facebook

Auth, Notification, Feed, Gamification } components /  
features  
when statement is too big



Dissect each component (if required)

e.g.: Feed might have - generator, aggregator, webserver



For each sub-component look into

1. Database and Caching
  2. Scaling & Fault Tolerance
  3. Async processing (Delegation)
  4. Communication
- } Repeat for each subcomponent  
one by one

Add more sub-components if needed

- understand the scope
- decide how other components will talk to this new one
- decide on 4 above factors for this new component
- repeat

