



#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

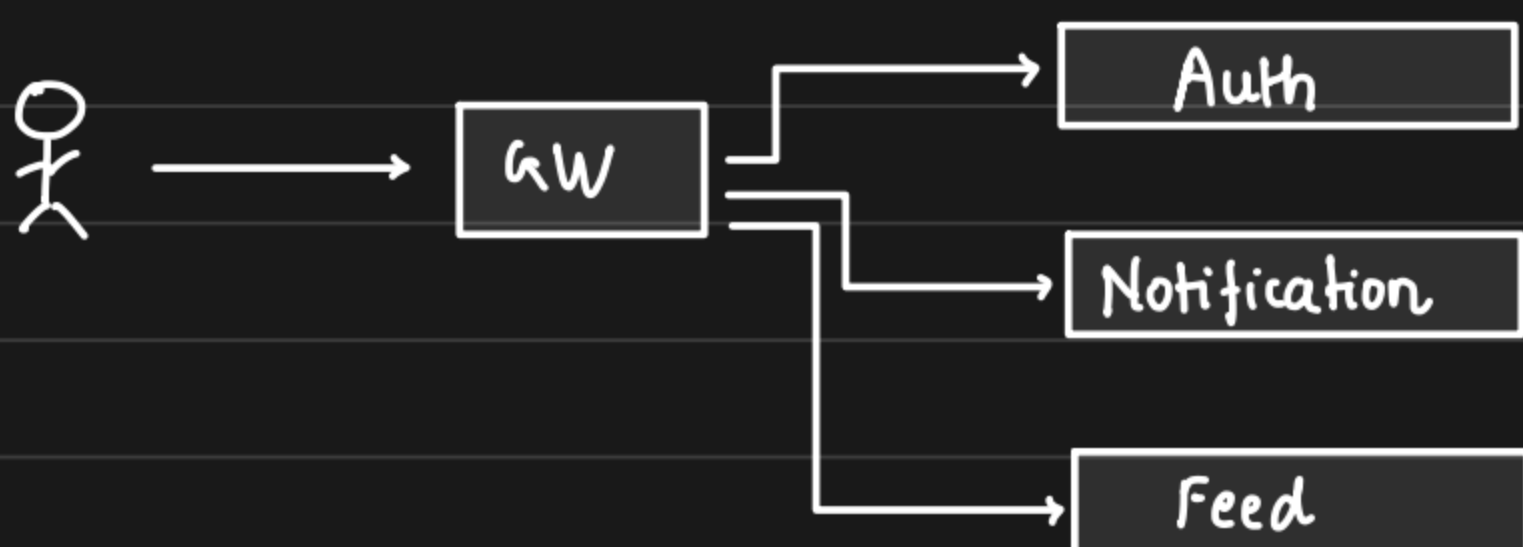
Note: create component that you know are must

eg: Design Facebook

Auth, Notification, Feed, Gamification } components /

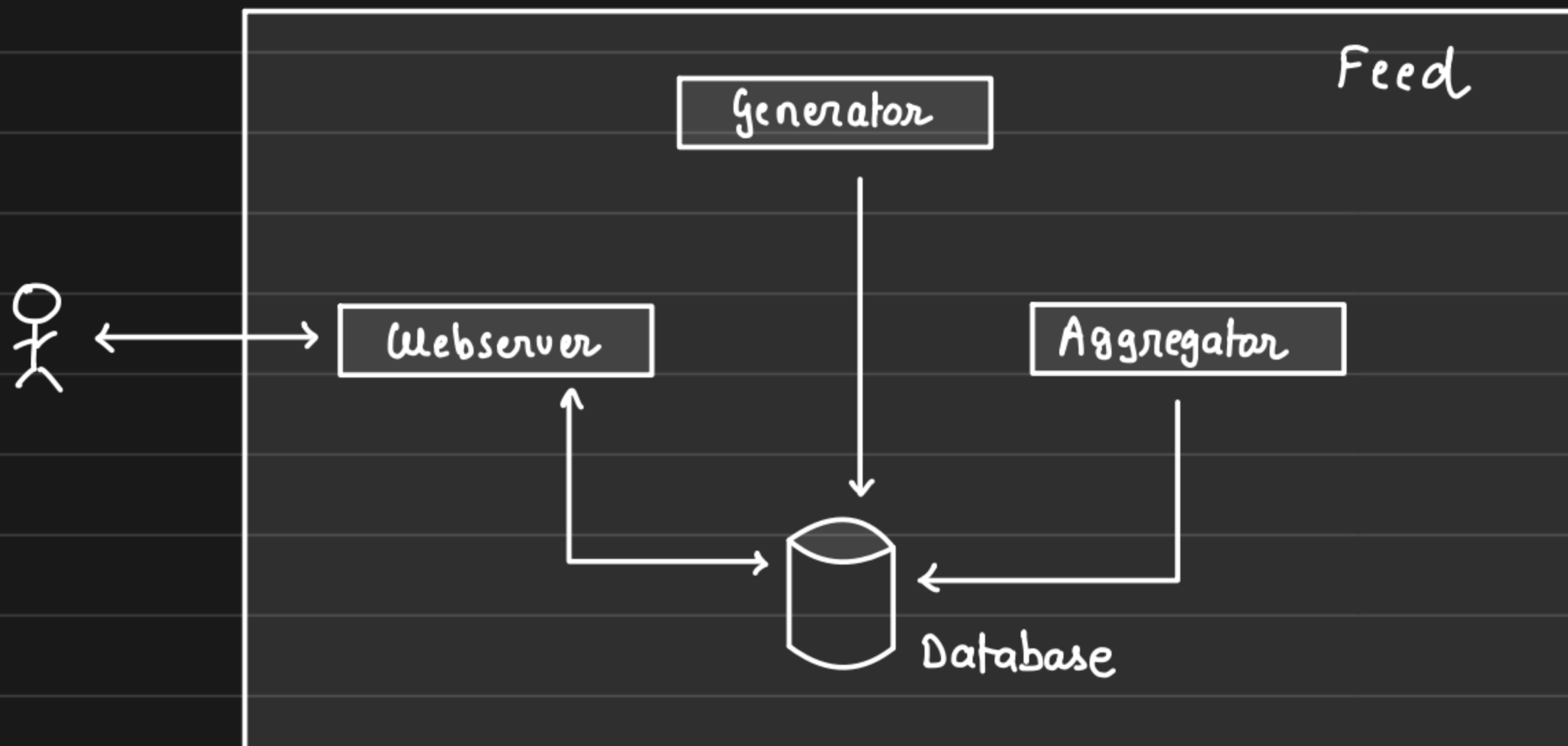
features

when statement is too big



Dissect each component (if required)

eg: 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

