System Design ——⟨ DSA   optimization
Code / DB Schema / E-R

⟨ Low Level Design

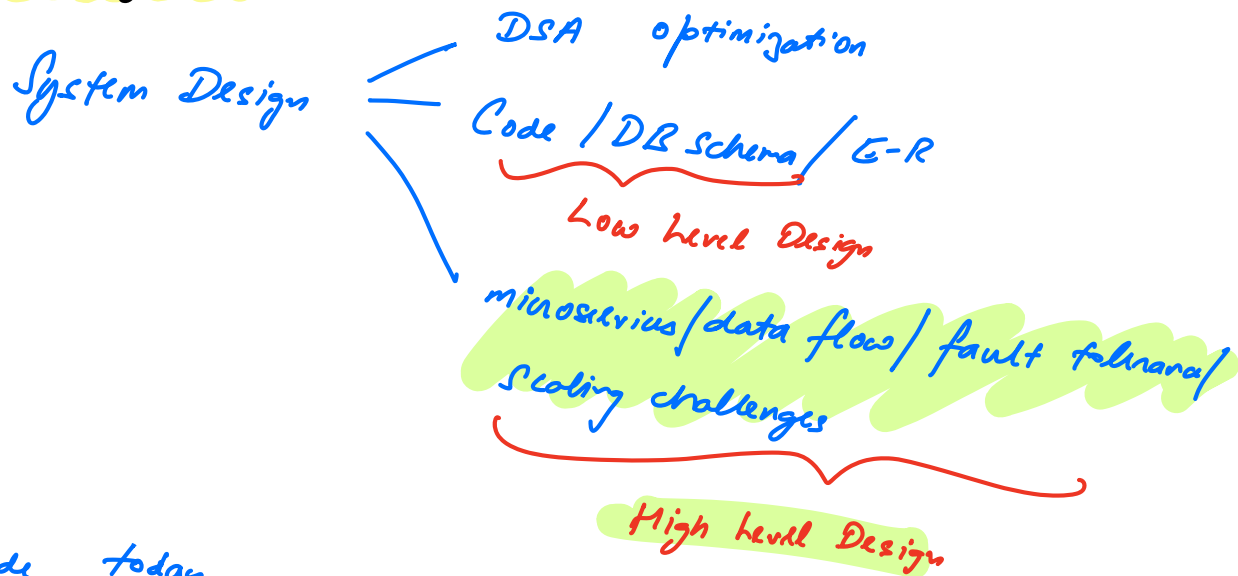microservices / data flow / fault tolerance
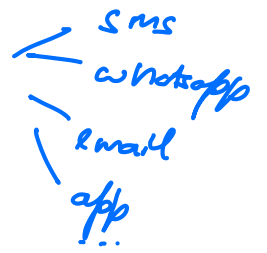scaling challenges

⟩ High Level Design

No Code   today

==5 step approach== to any design problem

① Problem Statement
② Functional   Requirements
③ Non Functional Requirements
④ Scale Estimation
⑤ Design

⟩ prerequisites

Notification System — generic notifications — sms
whatsapp
email
app
...

Scaler

Education Company

notification is NOT their core business

core business — something else

notifications — just a feature

Toy Store

E-commerce Company

Notification.com

SAAS

core offering ⟶ Notification SAAS

tons of clients ⟶ clients have users
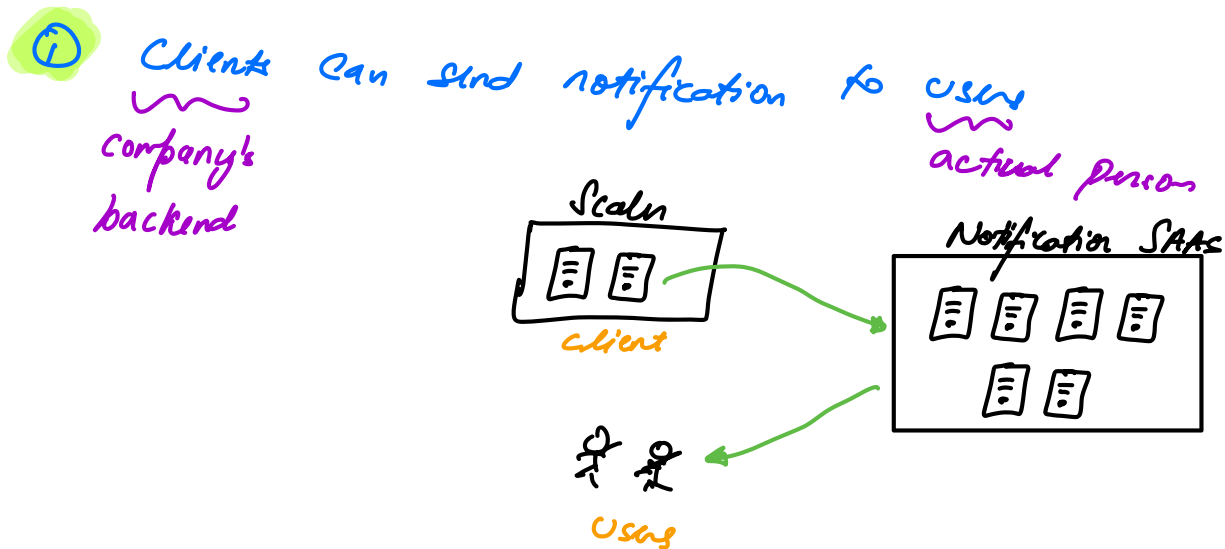
v. high user count

v. high volume

lots of features

Functional Requirements

MVP features

Minimal Viable Product

Notification : any small content that we wish to send to a user via some means

< 1kb

text / audio / video / images

URL

sms / whatsapp / appl..

flexible

(i) Client can send notification to users

company's backend

actual person

Scalu

client

Notification SAAS

Users

POST

notify (
api-key (client id)
User-id
content json
)

→ Success 2xx

/ failure 4xx
          5xx

{ msg : ---
  attach : -
  icon : .. }