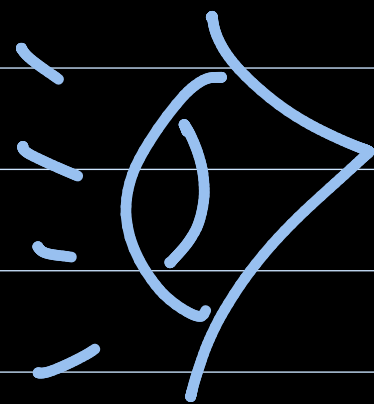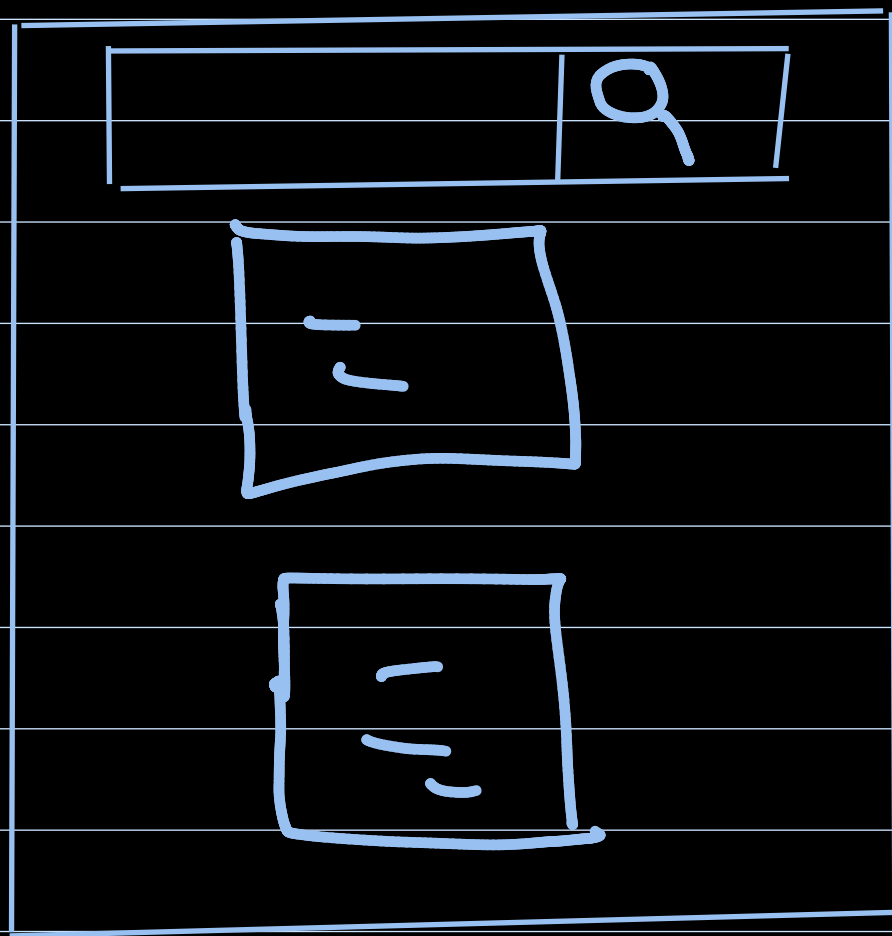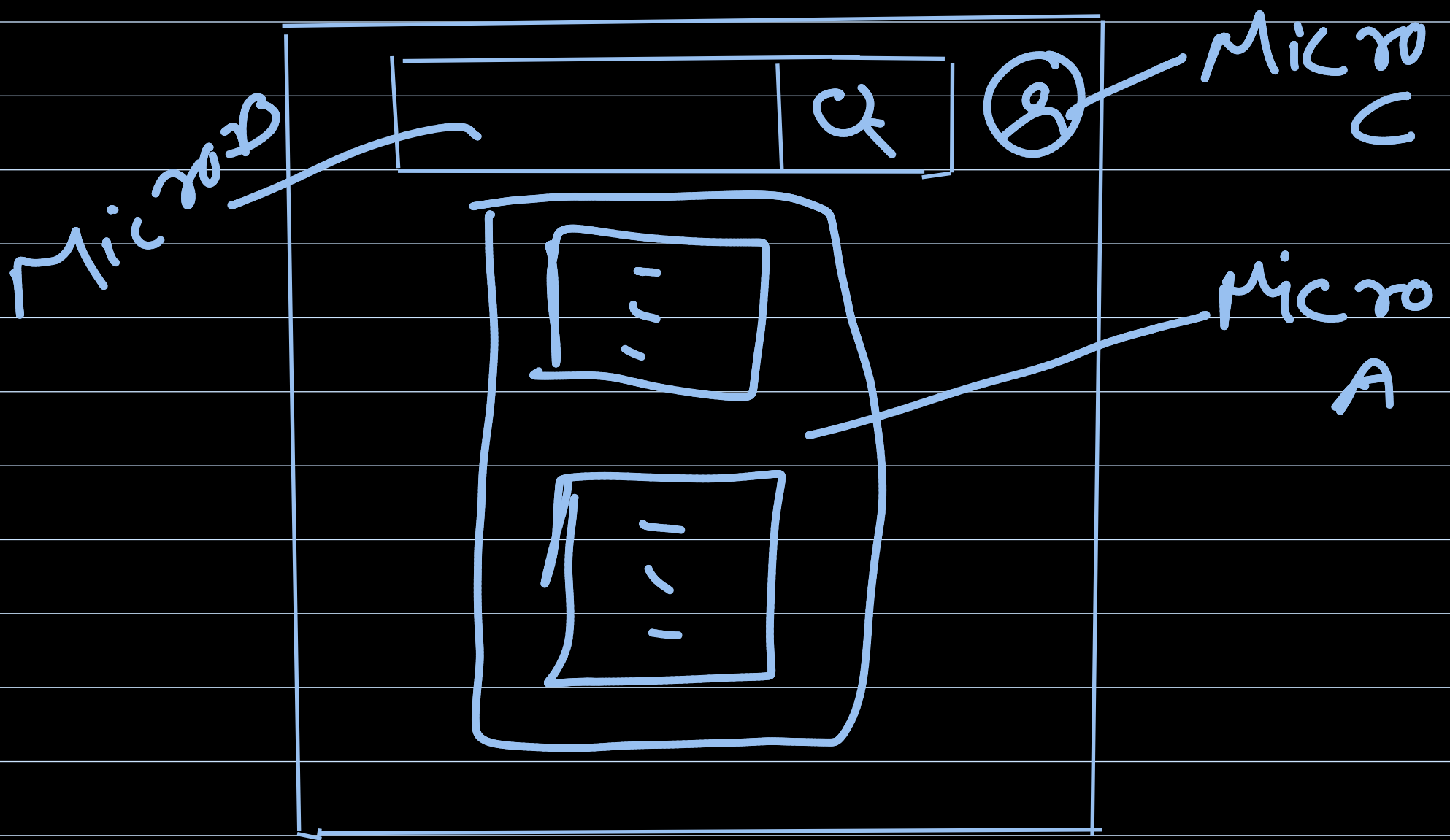# What are Microservices?

Microservices are small, harmonious & autonomous pieces of a large product or system making it work efficiently. Each microservice is responsible for 1 feature in the most efficient manner.
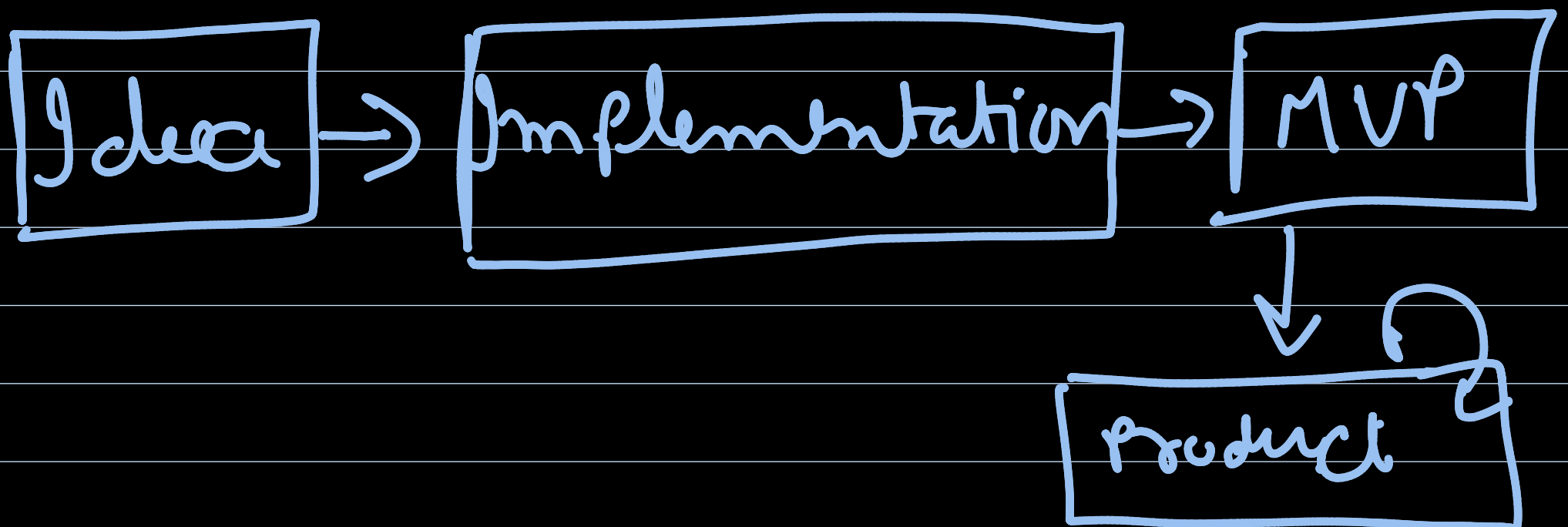
PRODUCT

Micro B

Micro C

Micro A

Why companies use Microservice?
Initially, the journey of
every product is like follows

$$ \boxed{Idea} \rightarrow \boxed{Implementation} \rightarrow \boxed{MVP} $$

$$ \downarrow $$

$$ \boxed{Product} $$

→ When the codebase grows

    → It becomes diffic to manage

    → Single point of failure
        increases

→ Feature development becomes
easier & independent (a bit)

→ Features can be shipped
fast
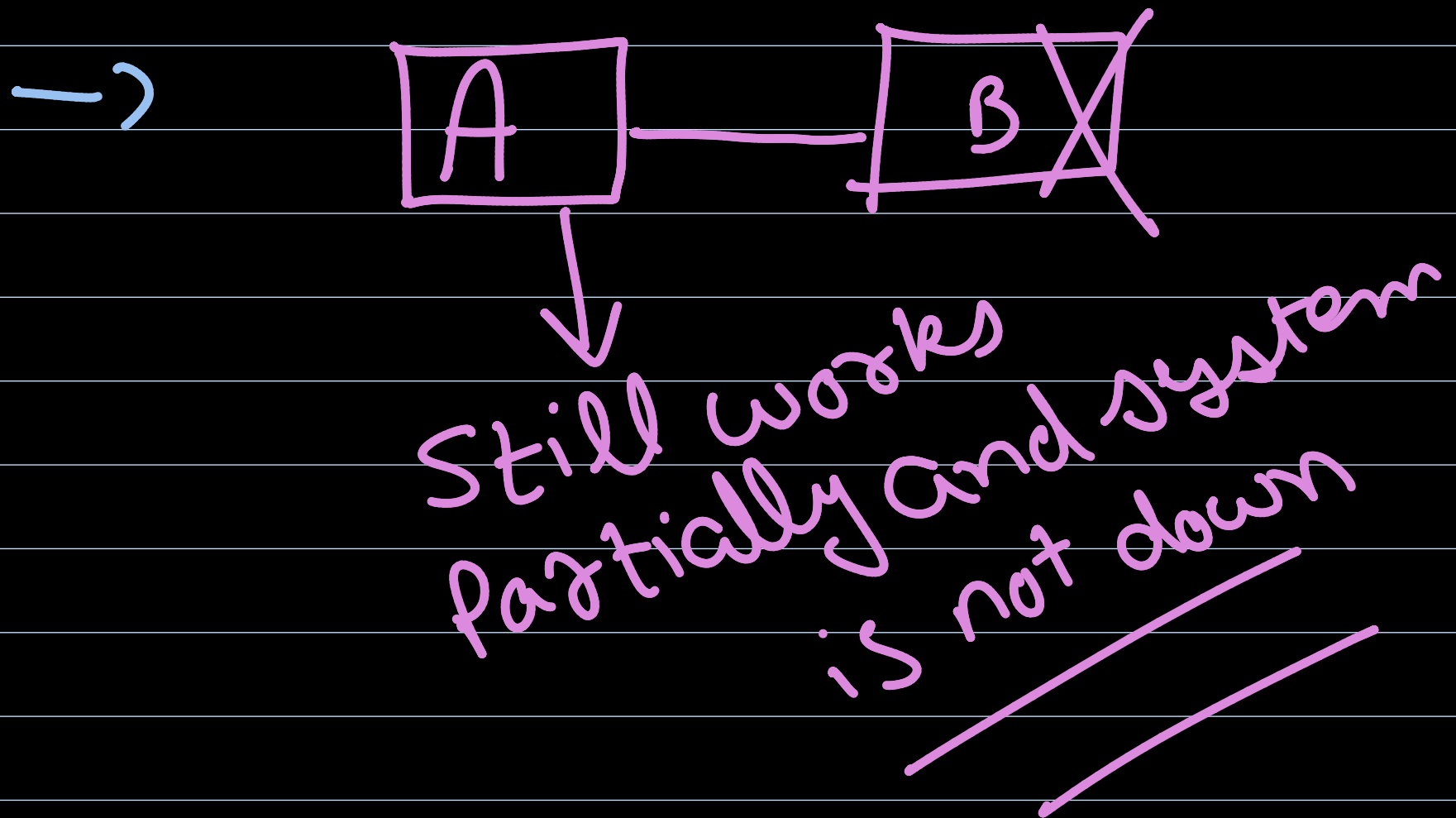
→ Use best tech stack for
your problem

A

B

JAVA
+ DynamoDB

Node·JS
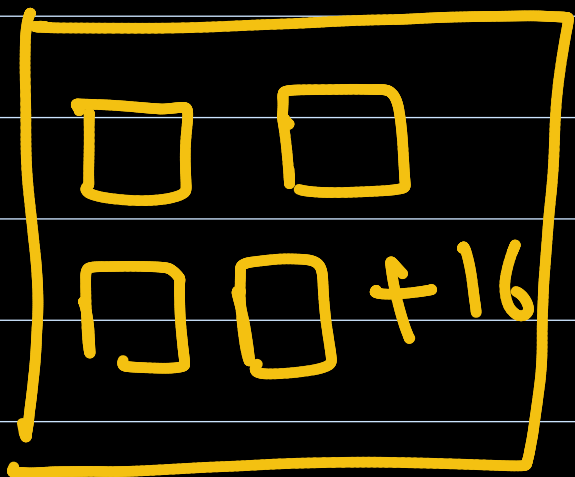+ Postgres

--) Services can communicate in their own protocol

--)

```
┌───────┐           ┌───────┐
│  A    │───────────│   B  ╳│
└───────┘           └───────┘
    │
    ↓
```

Still works partially and system is not down

--> Each service can have system Consumption according to it.
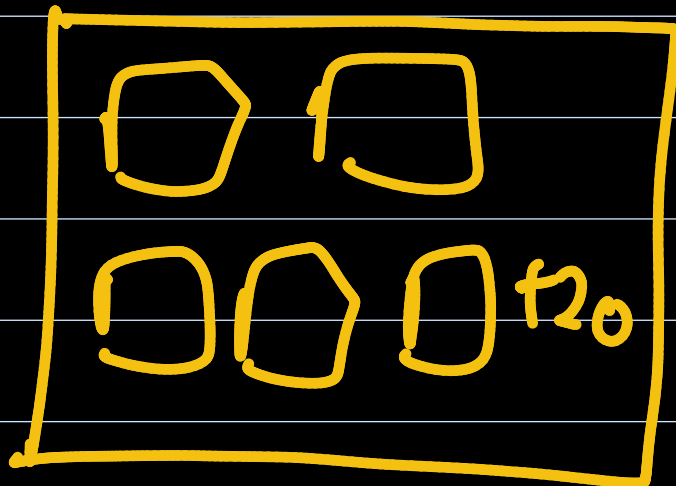
-> Upgrades are simpler

Java -> Go / Rust
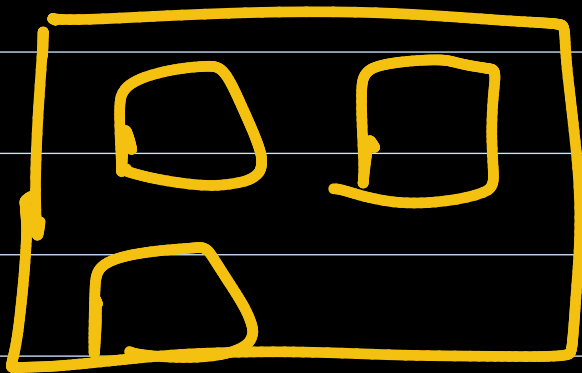
→ Predictability of scaling increases.

Auth   +16

Feed   +20

Payment

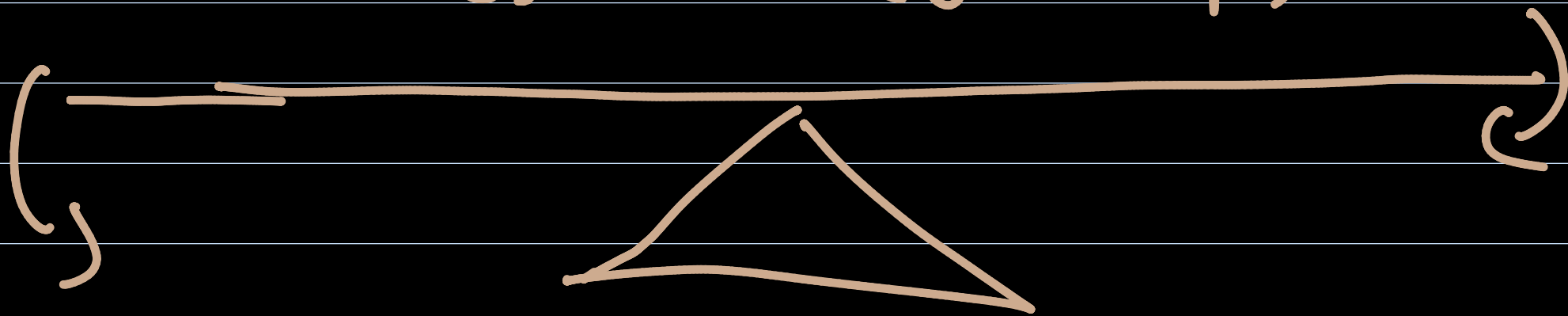How to [Fence] MS?

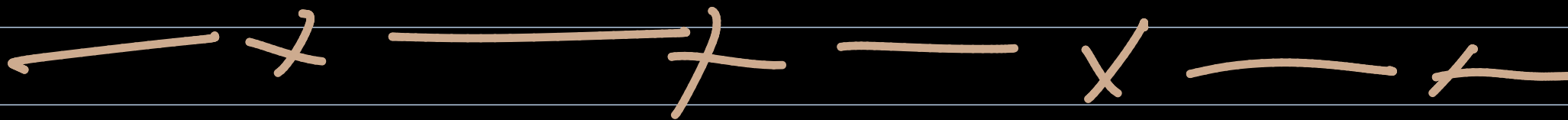→ It depends on various factors

↳ Features

↳ Teams

$\hookrightarrow$ Time
$\hookrightarrow$ Scale etc

Too Big   Too Small
(becomes   (Inter service
monolithic)   comm^n $\uparrow$)

Need to Balance it.