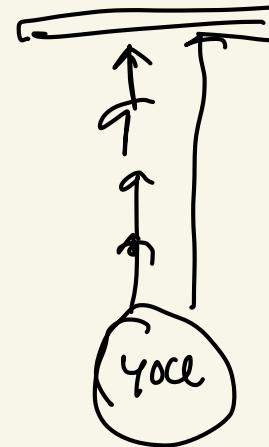
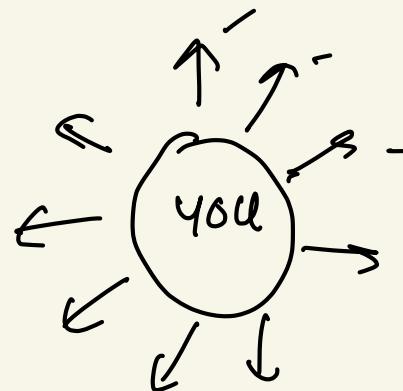
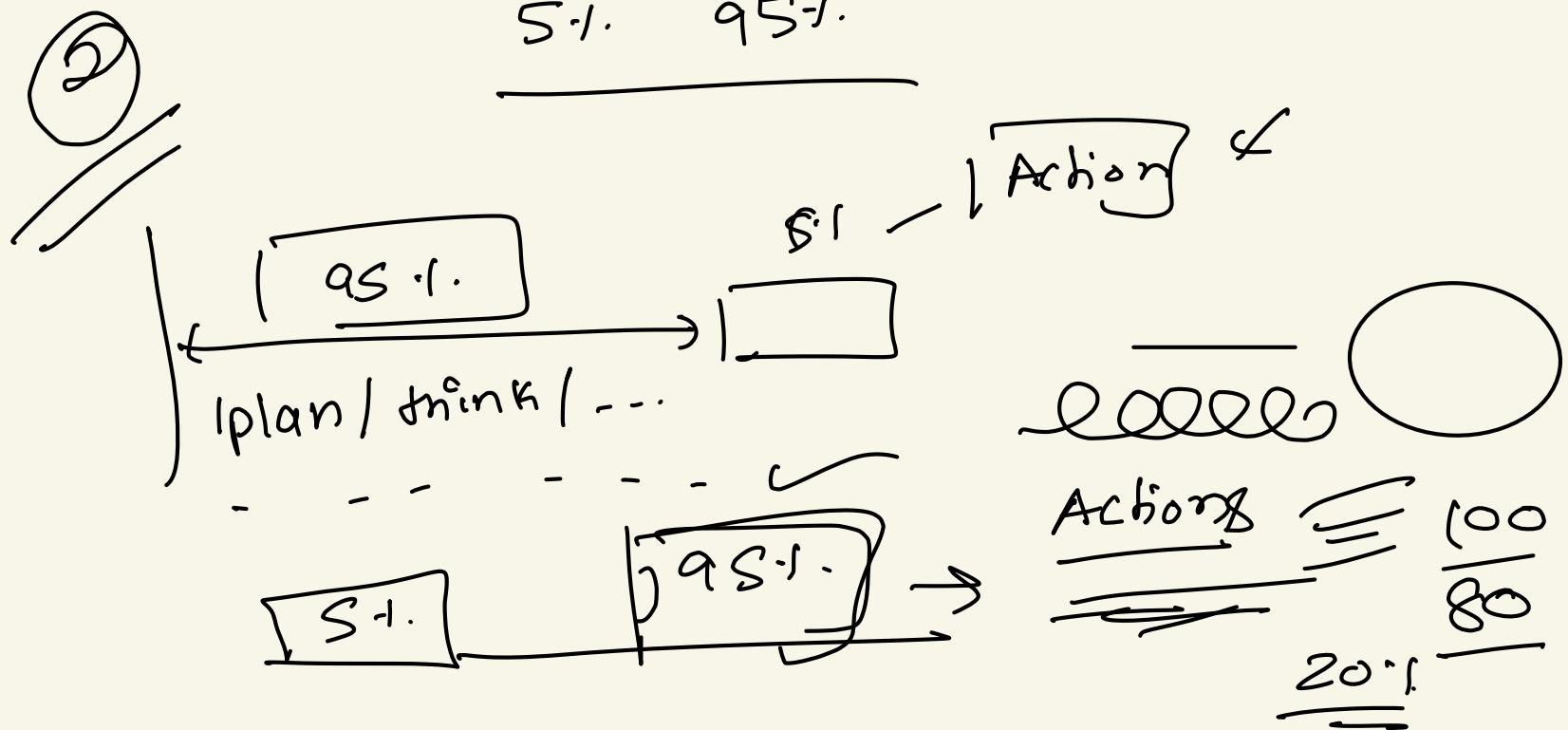


Focus on One thing

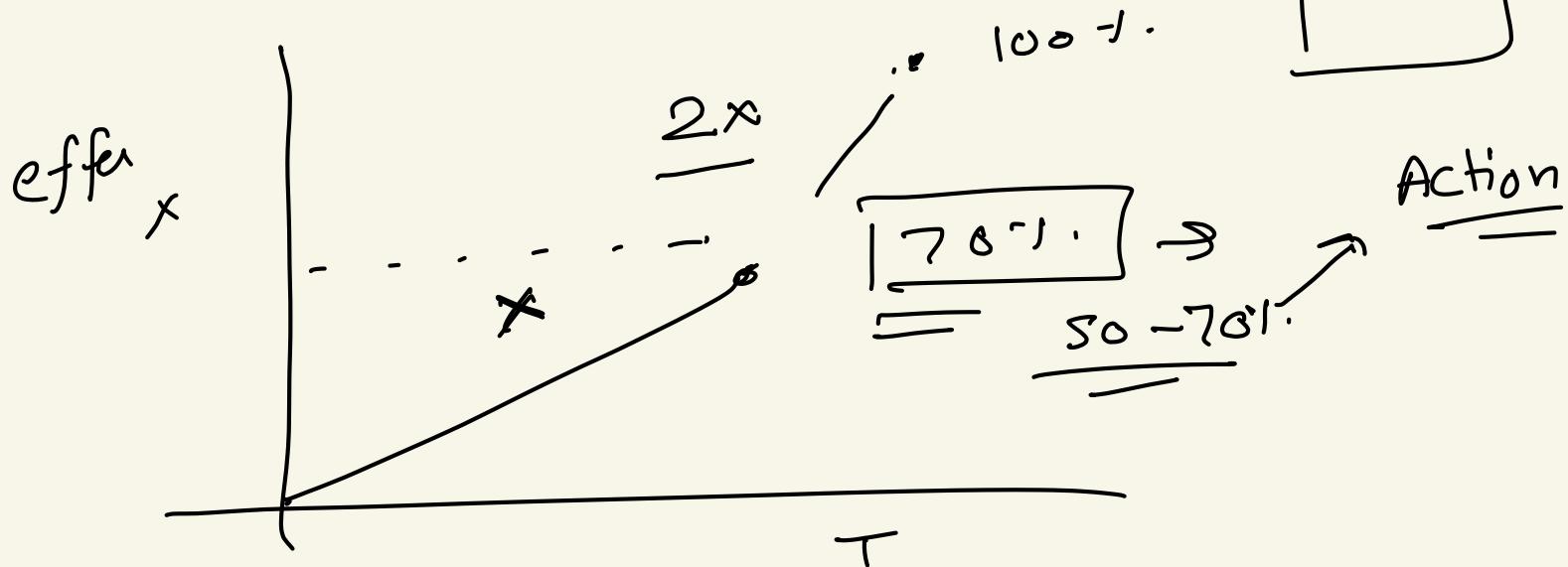
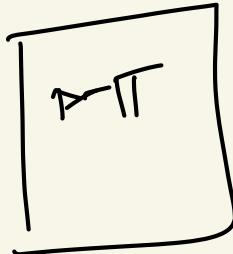
Limited = 100





③

70% Perfect
100% Failure





New Action

Good



New

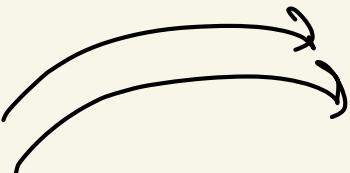
Action

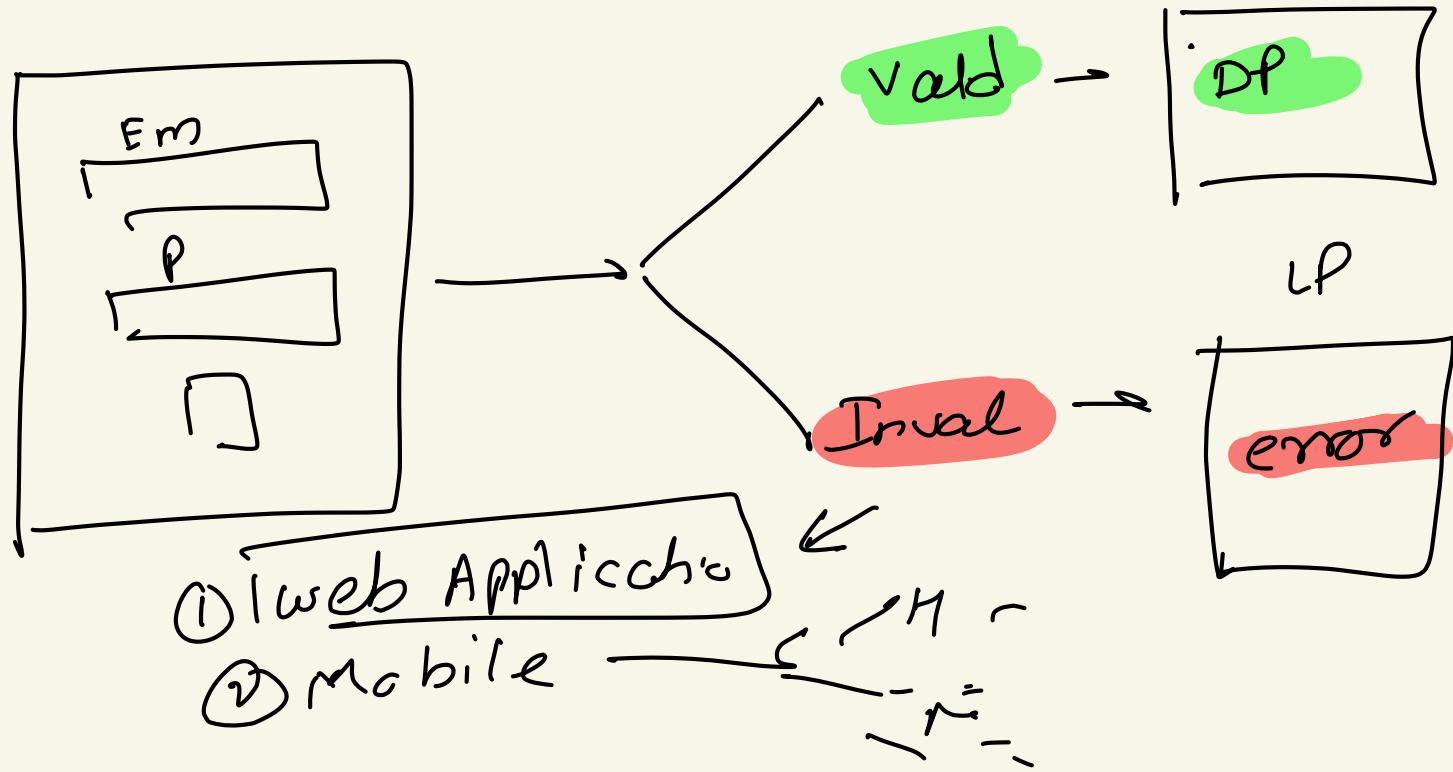


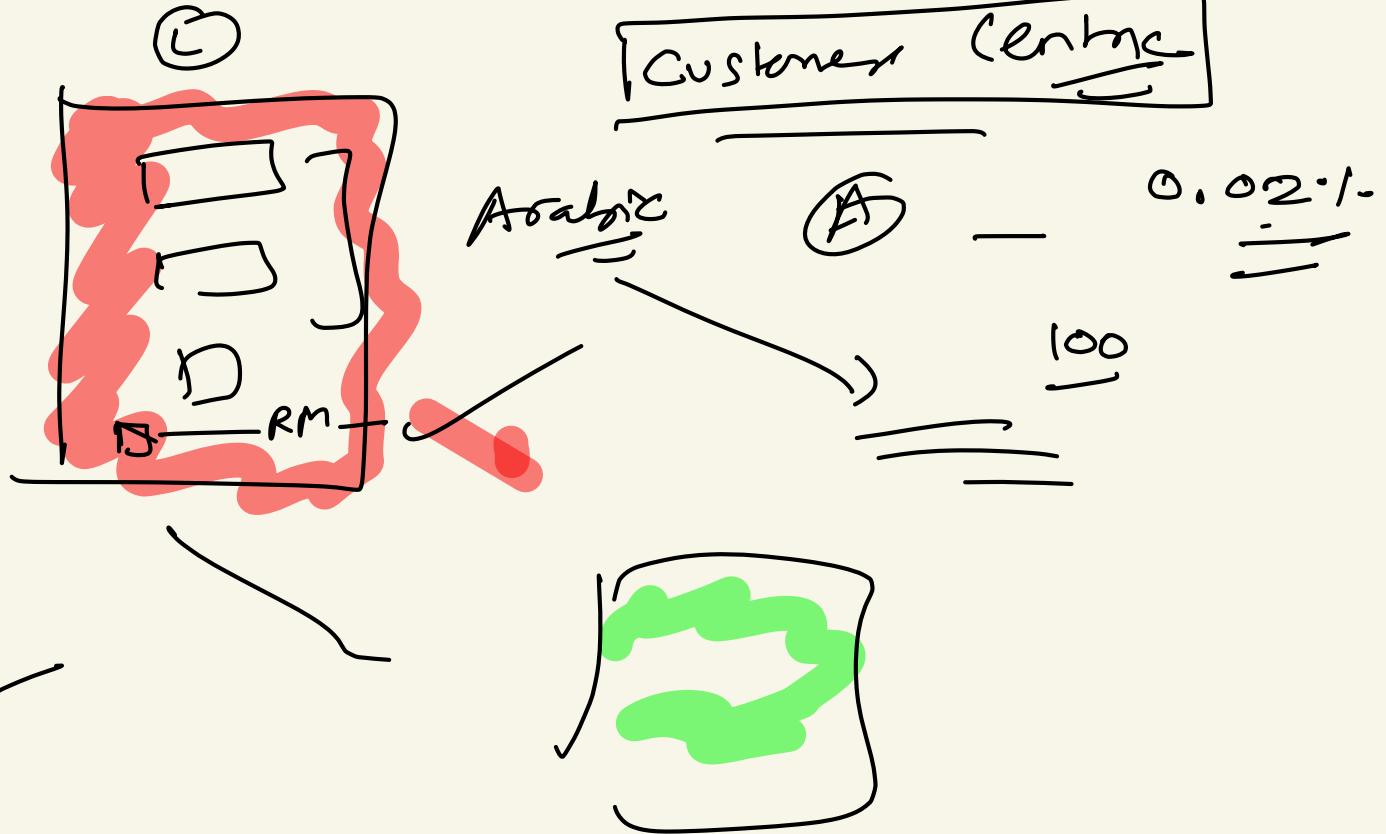
Past

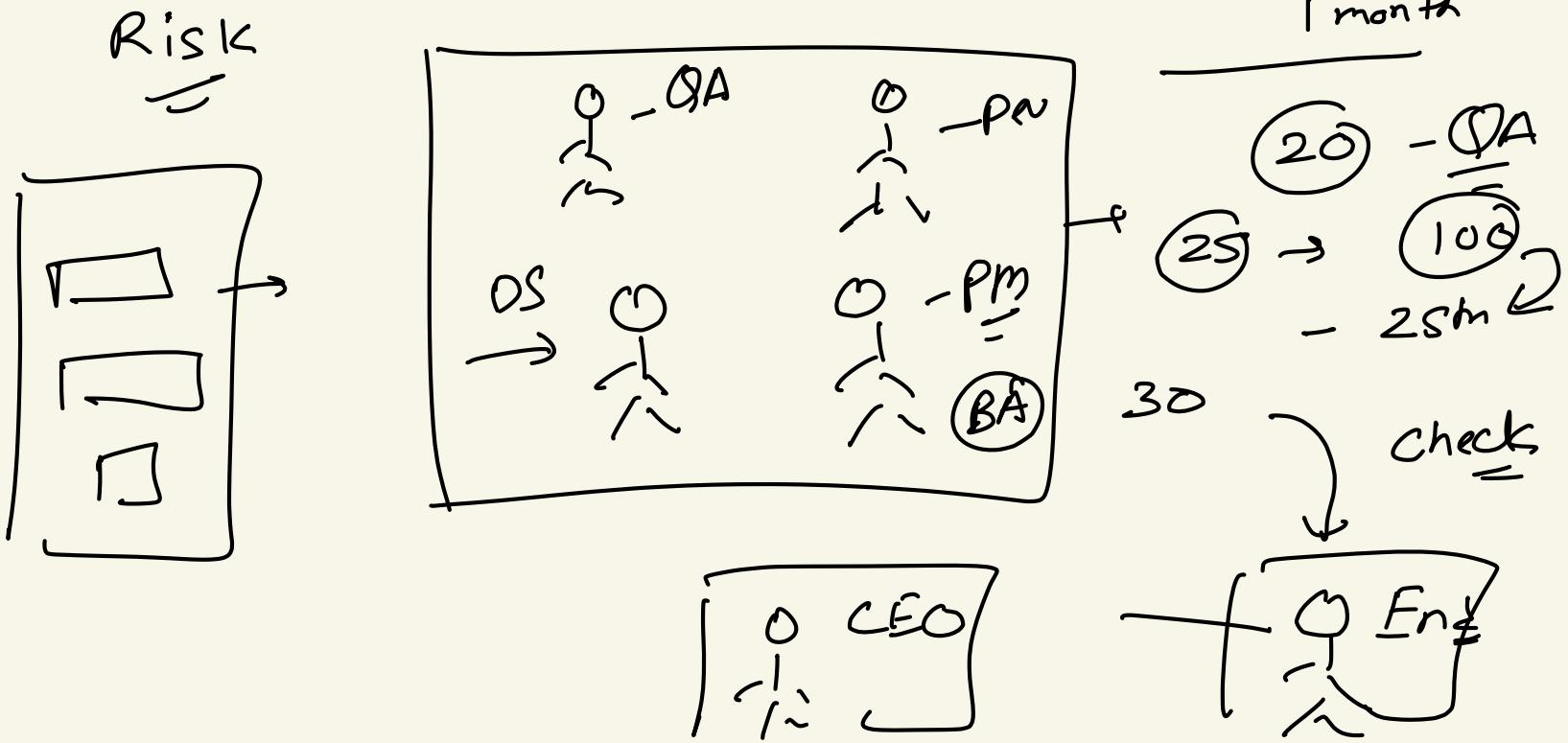
Present

Future

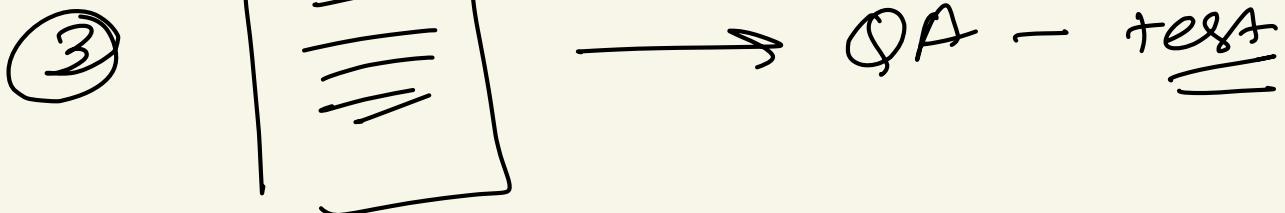
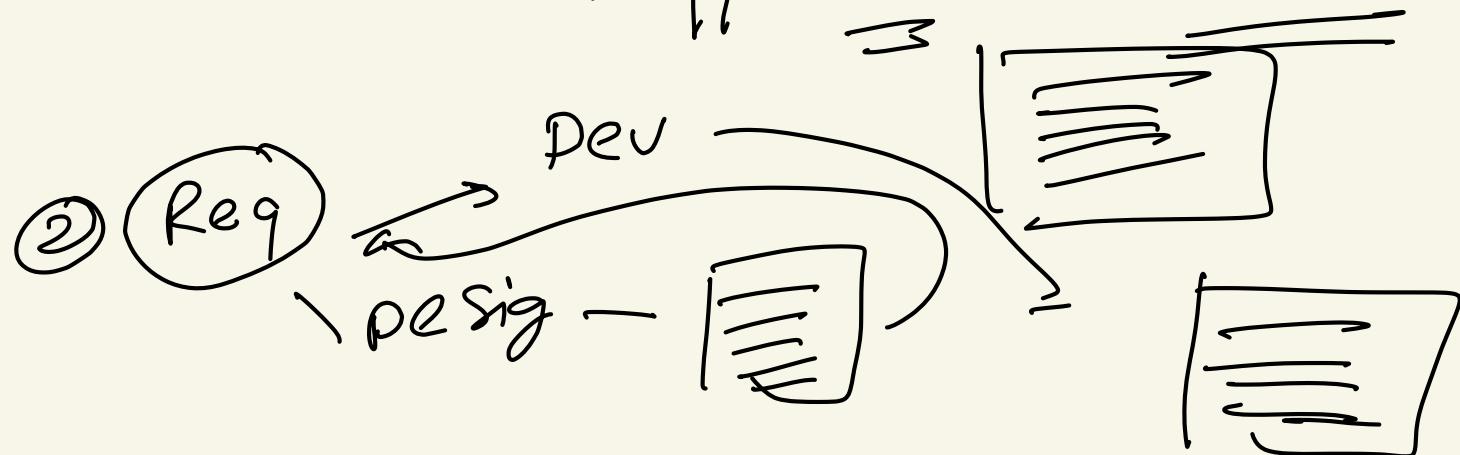






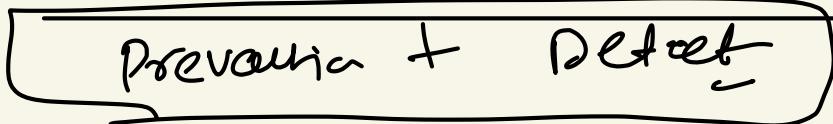


① BA / PM → talk to customer
→ Req / SRS (= Soft Req Spec)



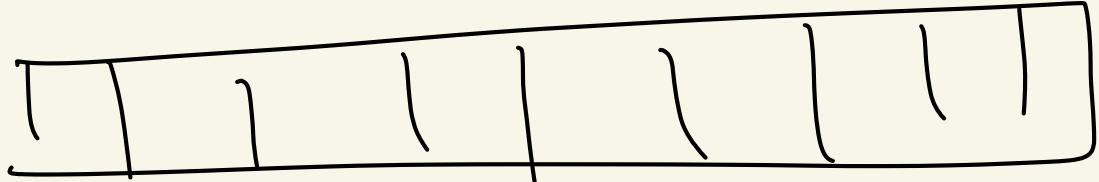
QA → Prevent Detect

Req →  — ^{QA Tester}

→ 
Prevention + Detect

QA

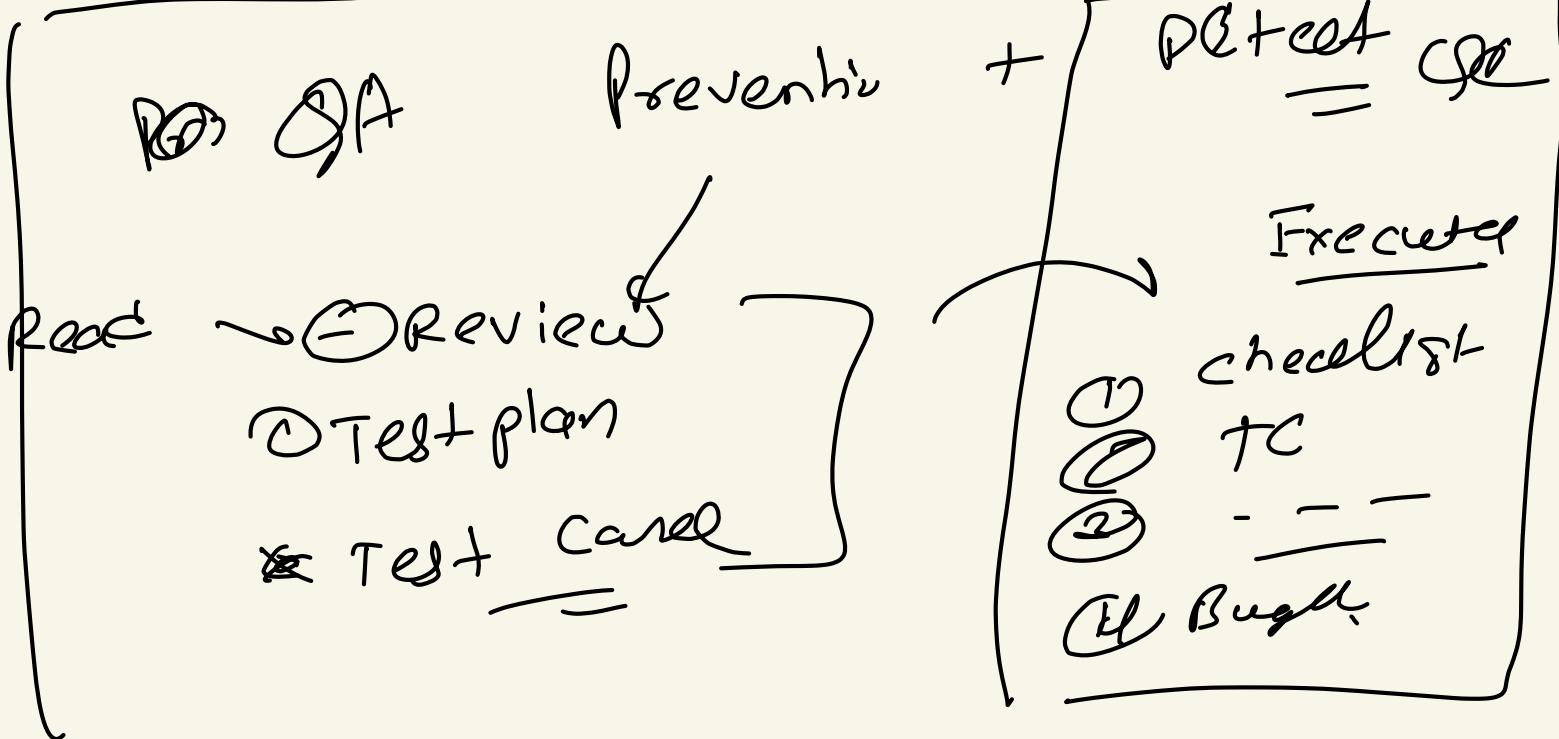
QC → Detect ← - Quality control
— Defects —



QA X

Method OC
= =
① chalk - detected
= =





* $\underline{\underline{ATF^1}}$

DA

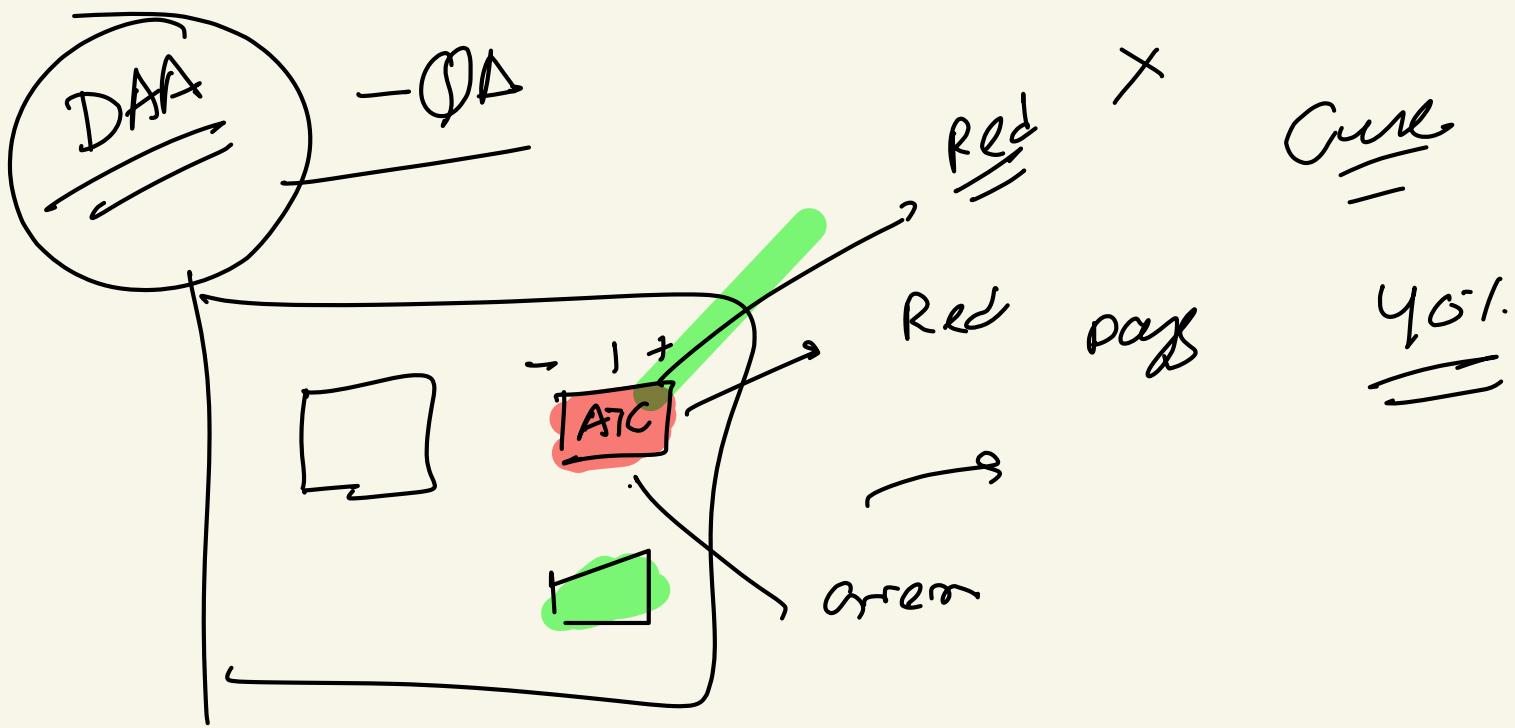
Observations

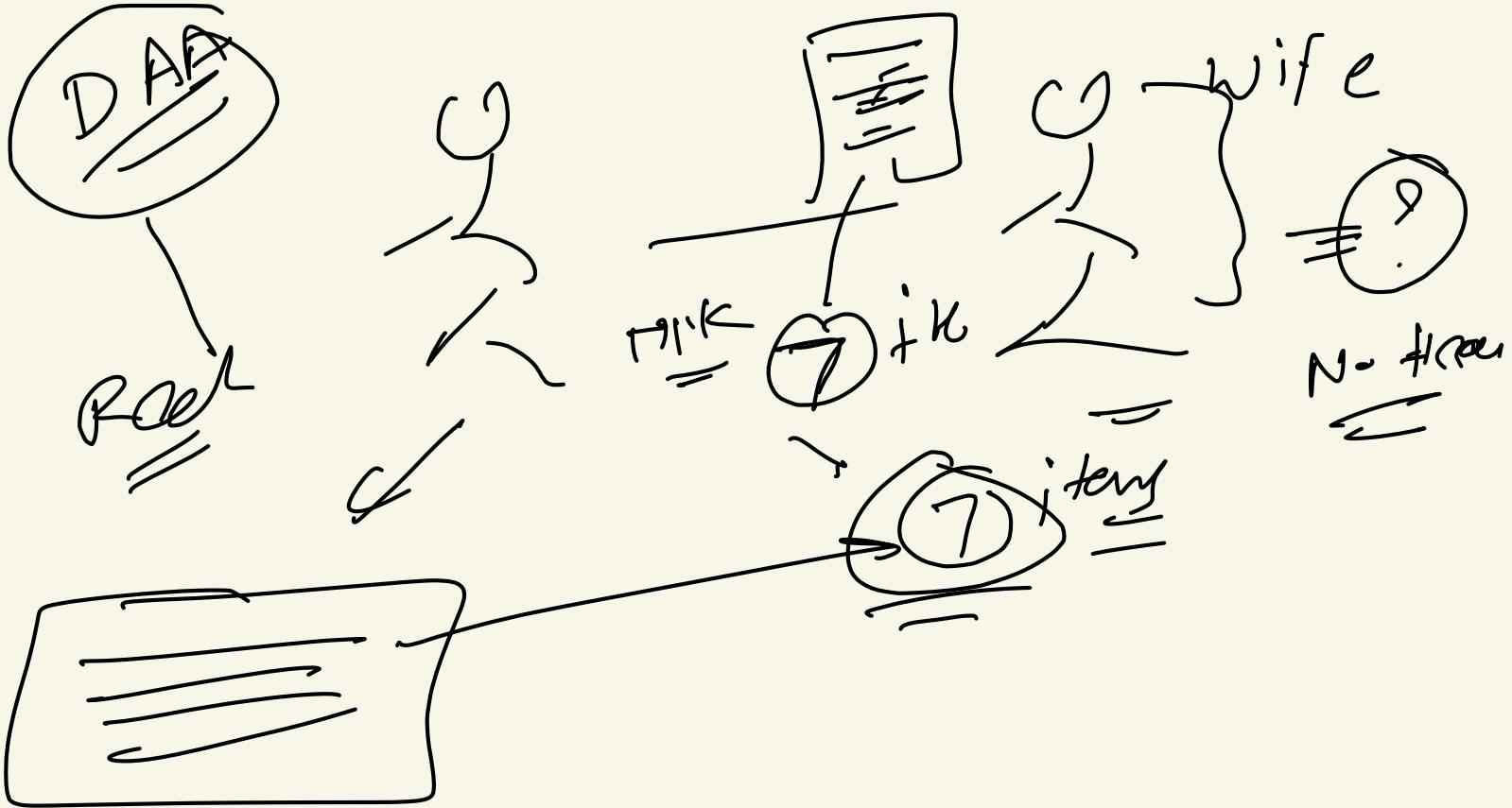


① Read $\underline{\underline{ATM}}$ →

ER → Requirements
== ==
Swiss → SP
Stuck

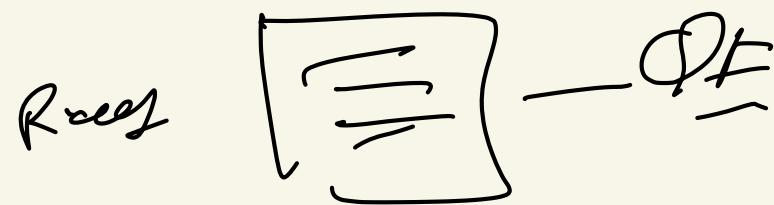
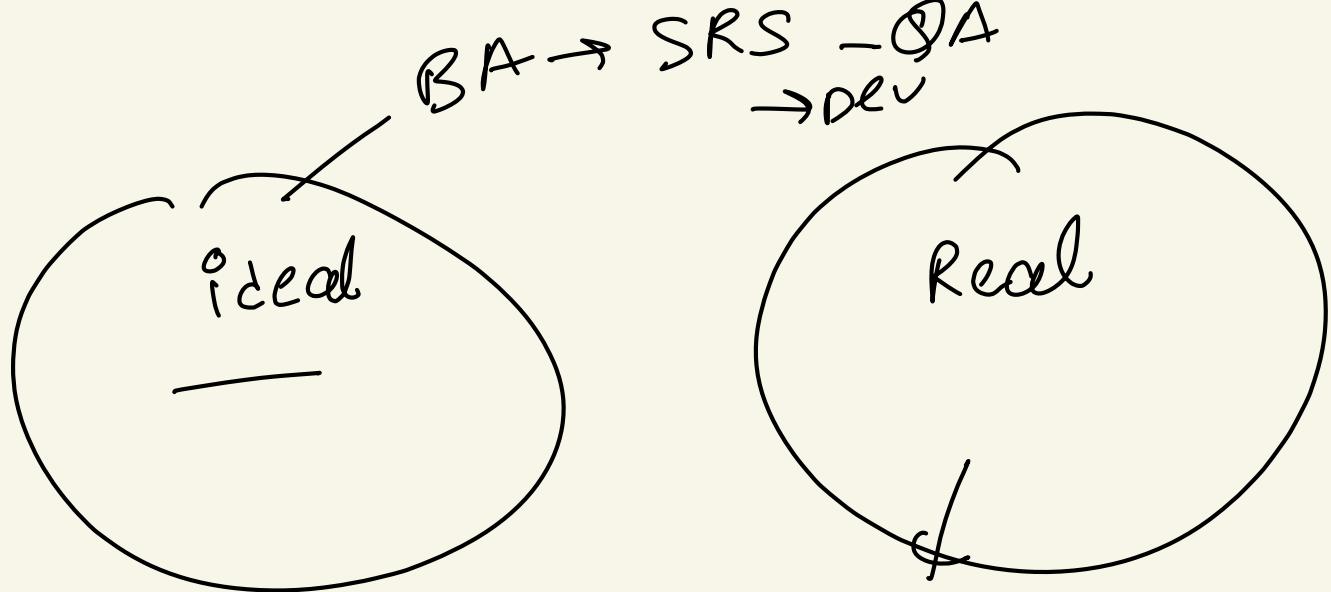
D A A
Don't Assure Angry ON





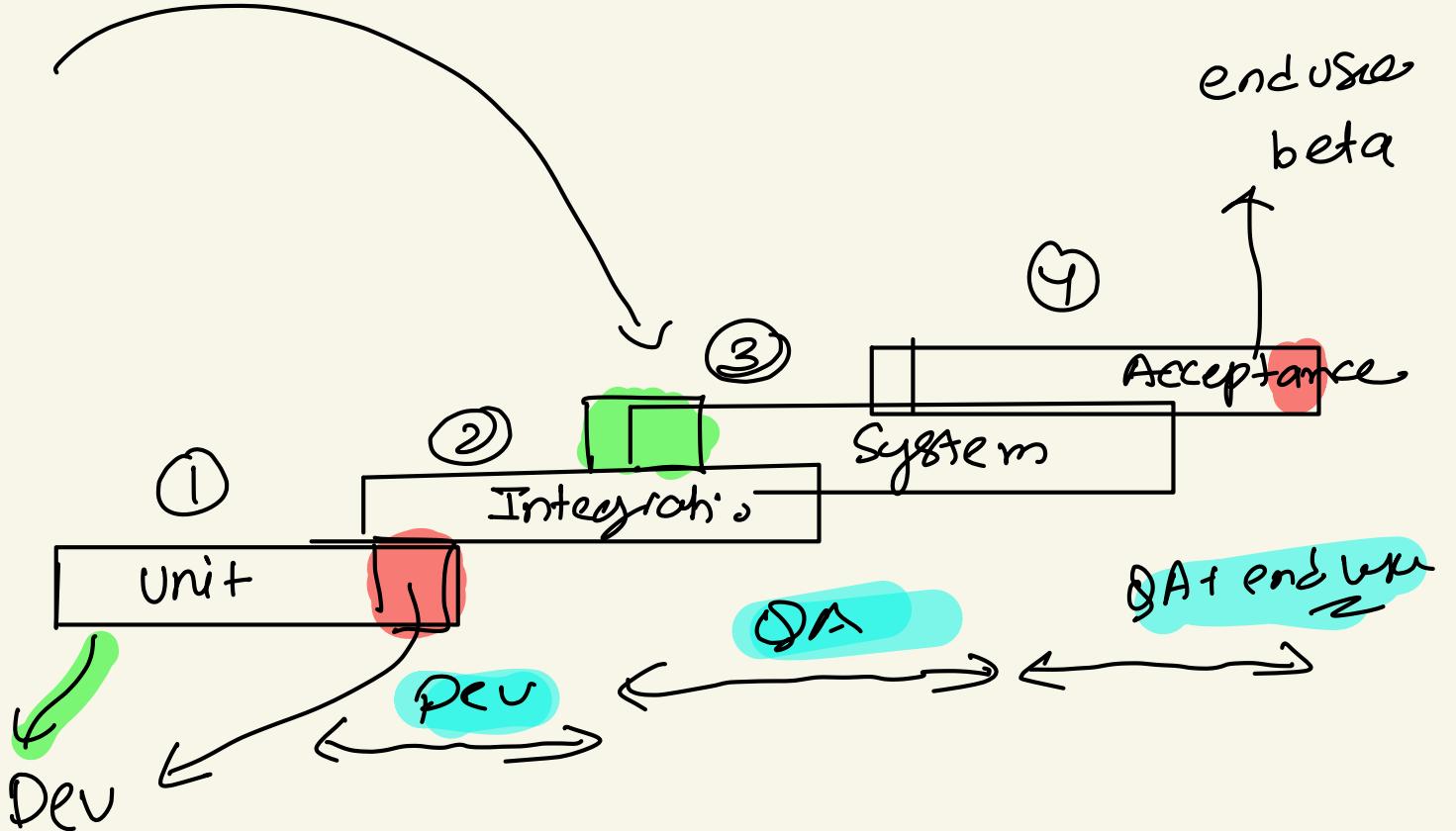
D A A

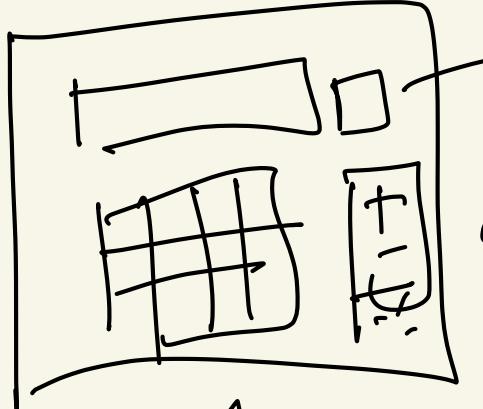
NO Re



QA

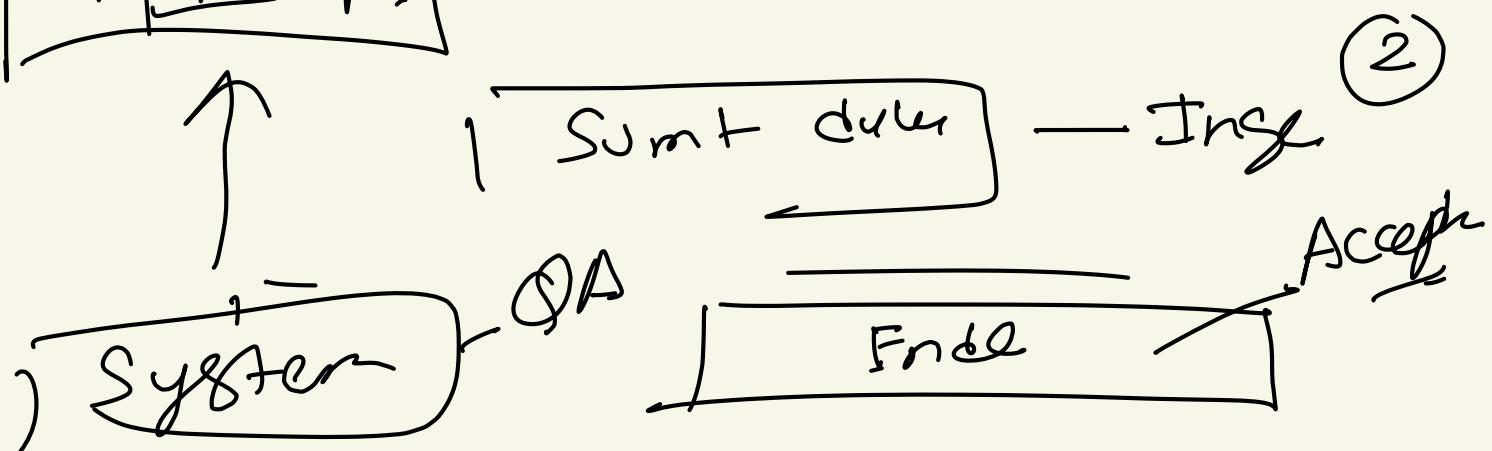
end user
beta

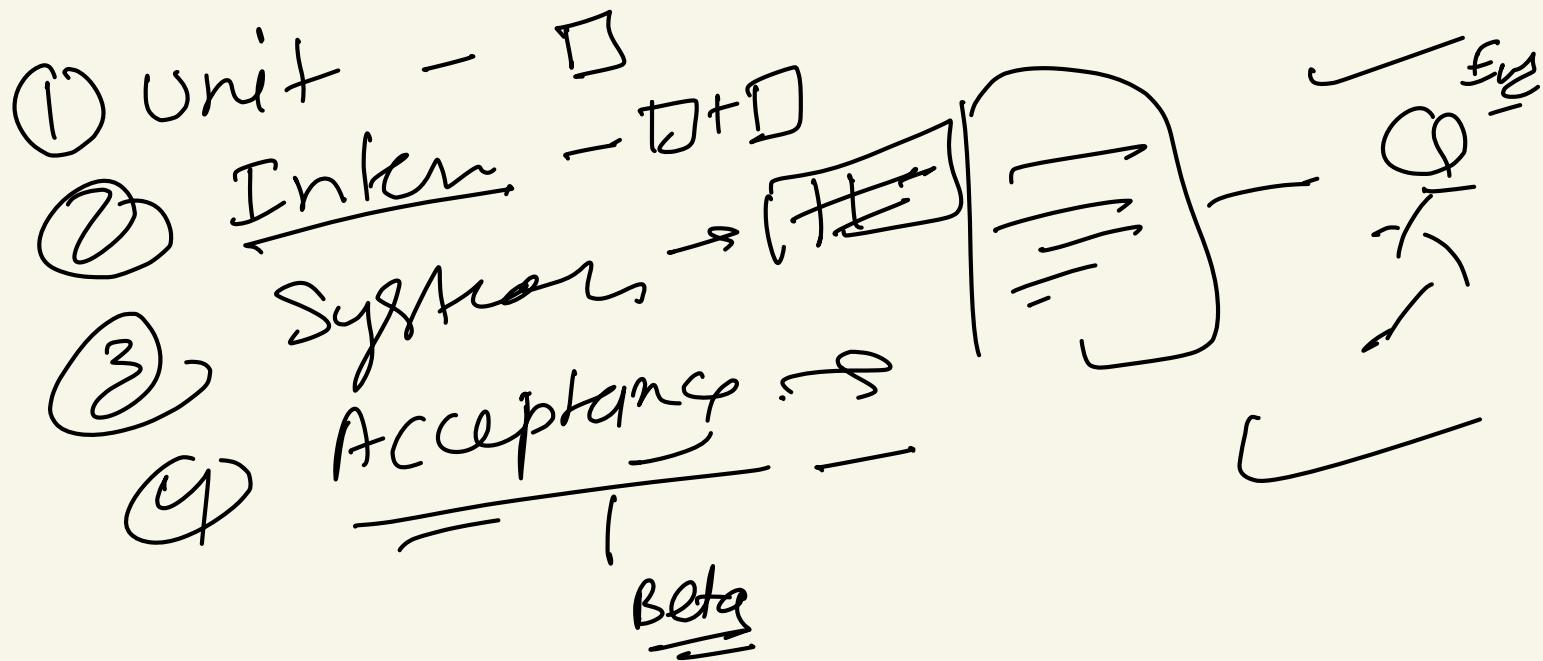




$$\begin{aligned} \text{unit} &= 2+2 \ (\underline{\text{Sum}}) \\ &= \underline{\text{divide}} \\ &\quad \underline{\text{multipl}} \\ &\quad \underline{\text{unit sum}} \end{aligned}$$

(1)





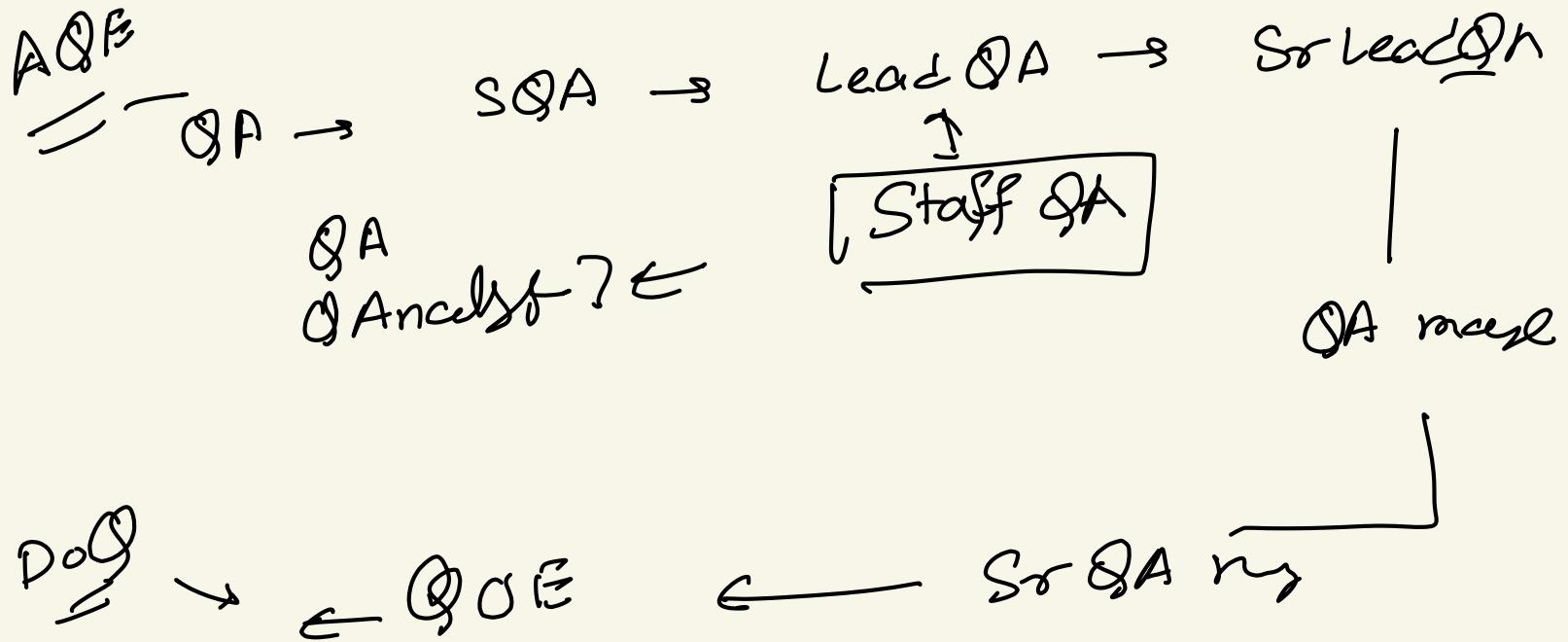
MT - RClass

OX - Bonus

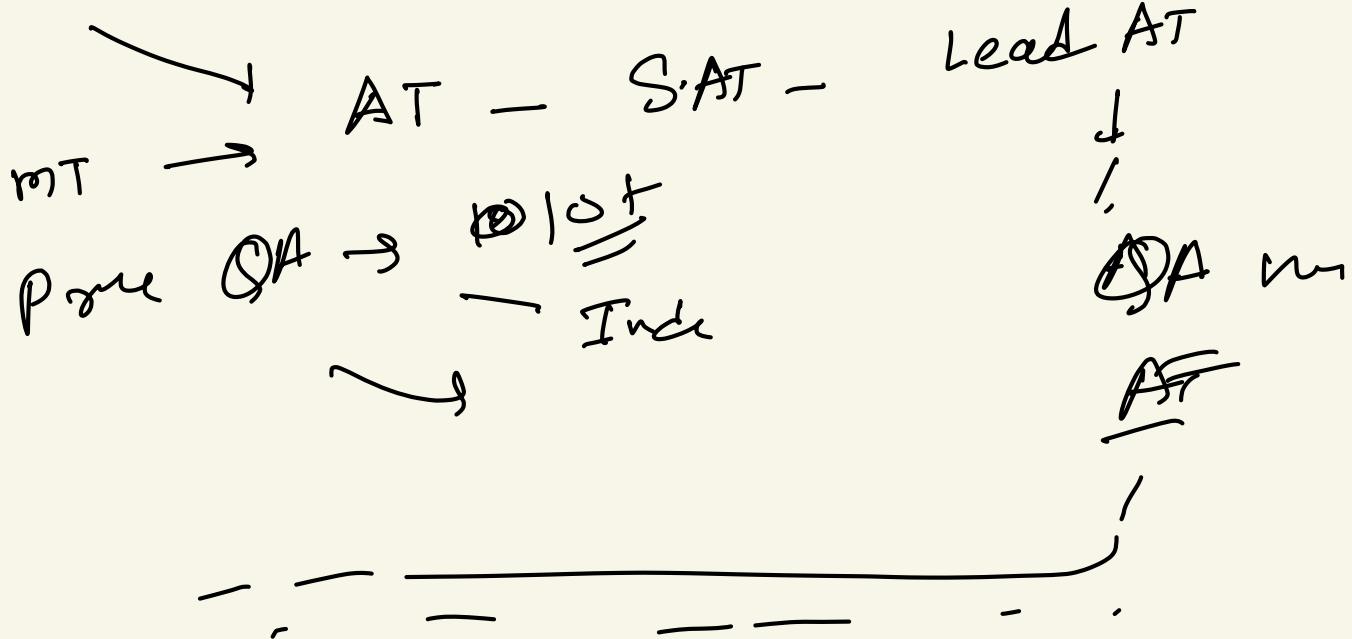
①

One thing

Automation

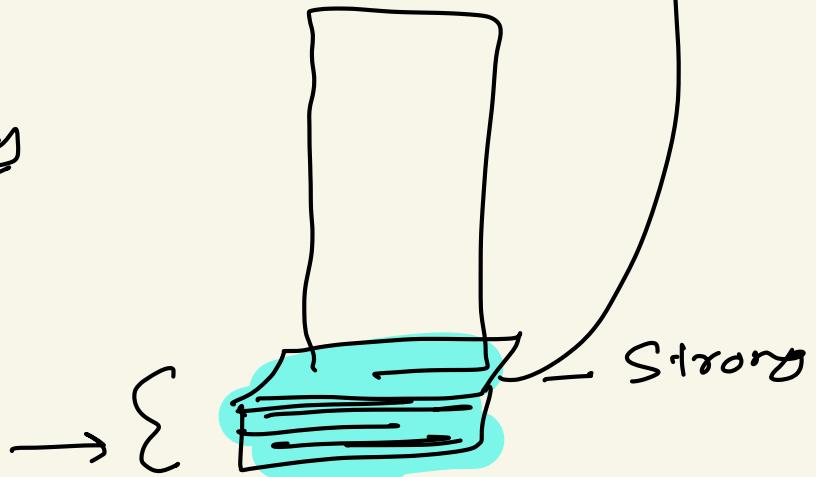


F/M/ Non-^TR



- ① Function / v Non
 - ② Levels of testing
 - ③ Testing pyramid
-]
- = ?
- MTRG
- AT

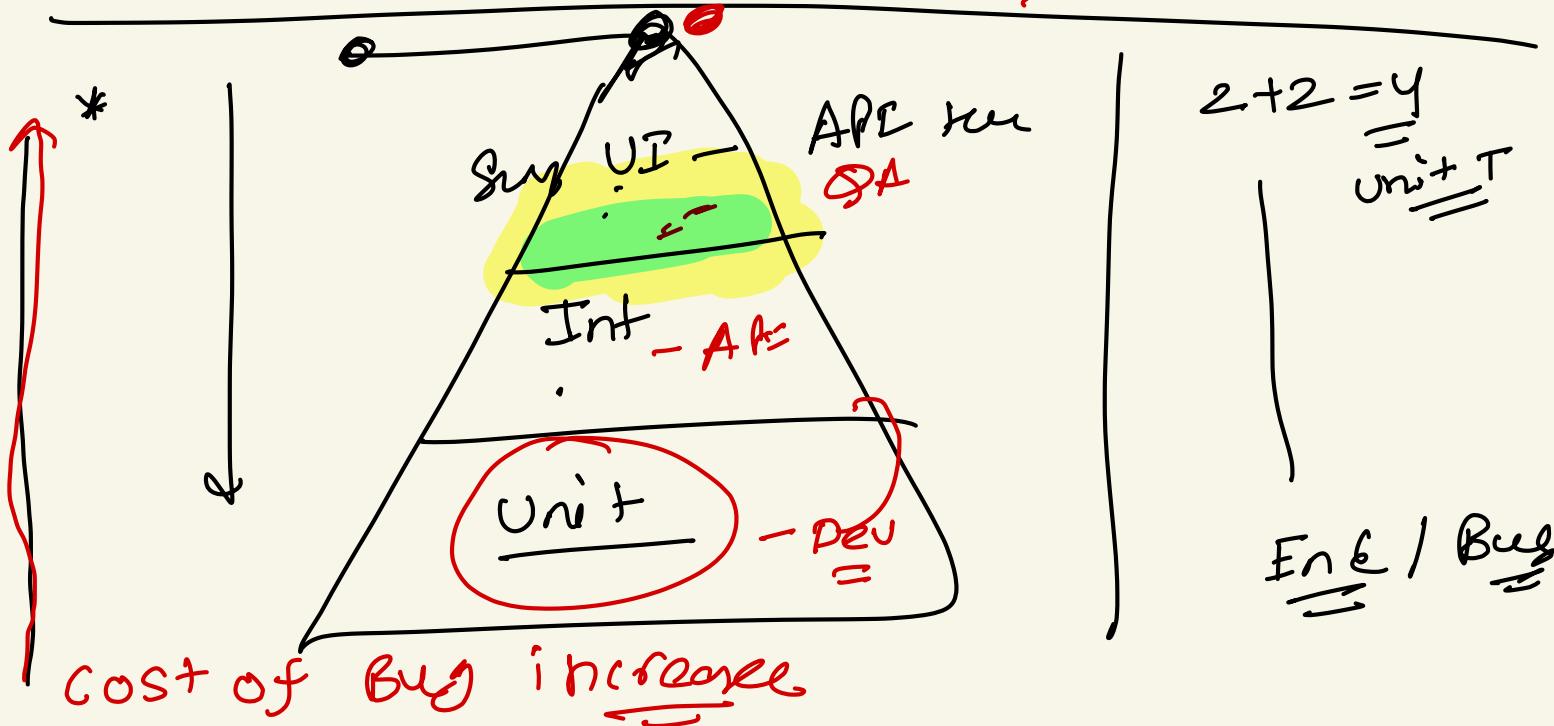
10 Story



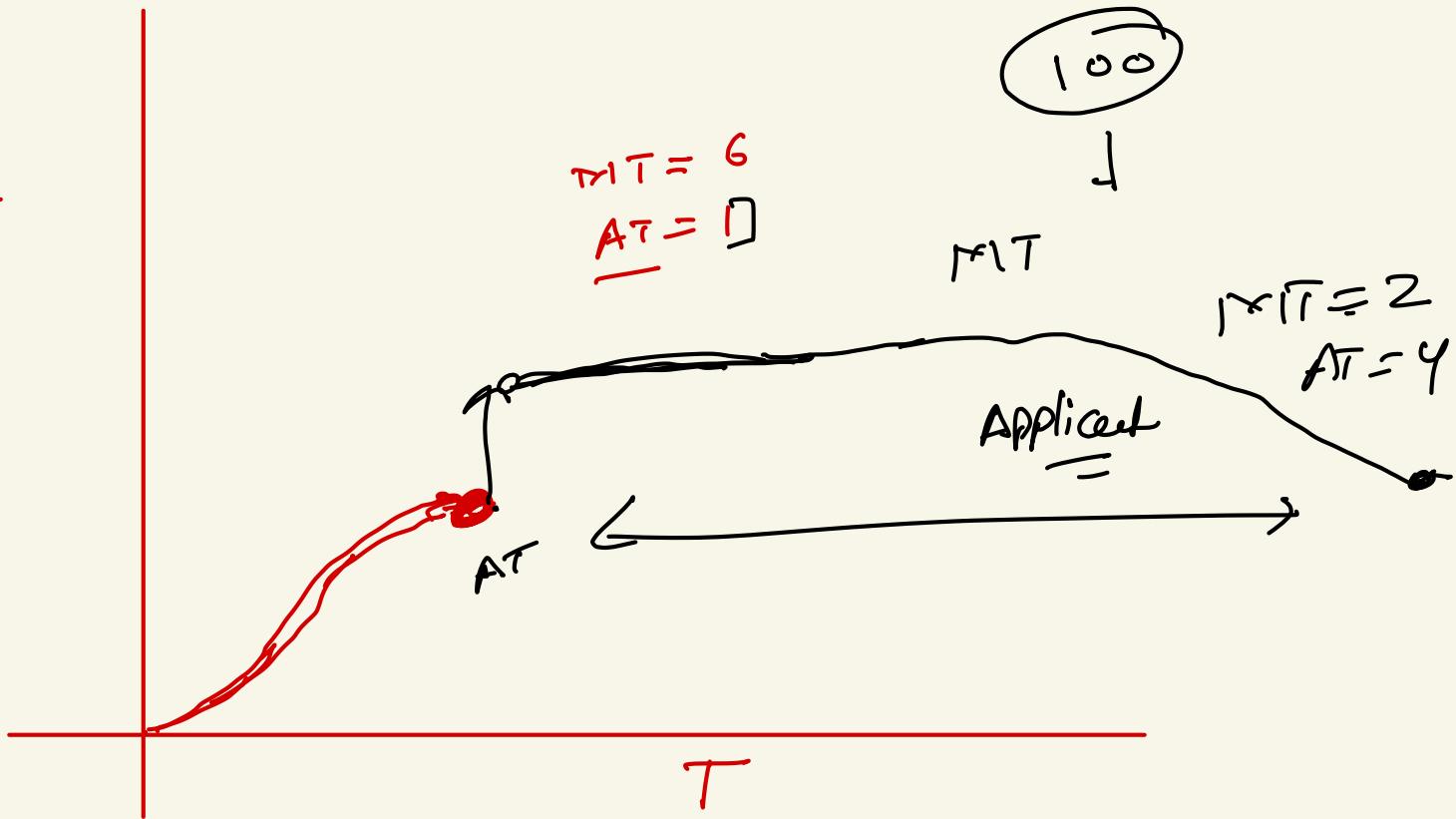
MTF

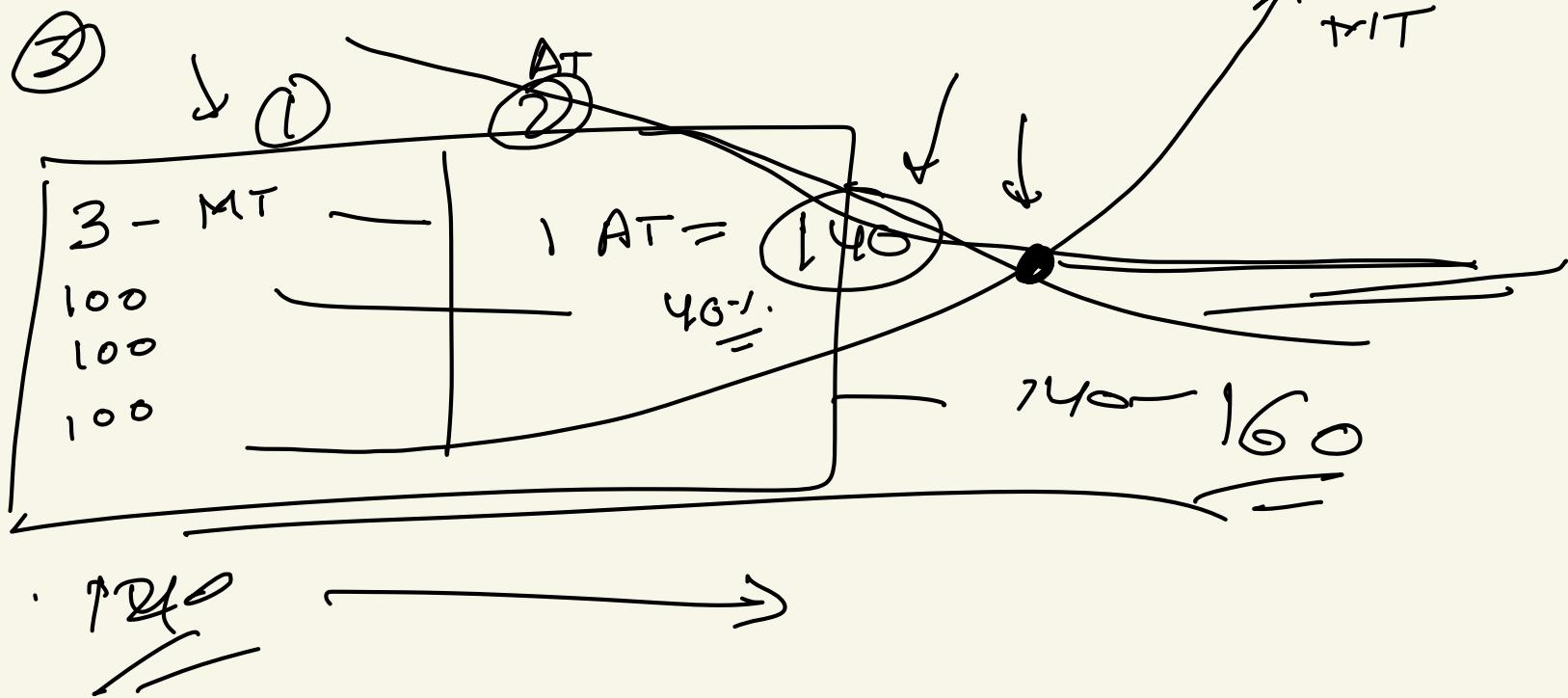
- 100% clarity

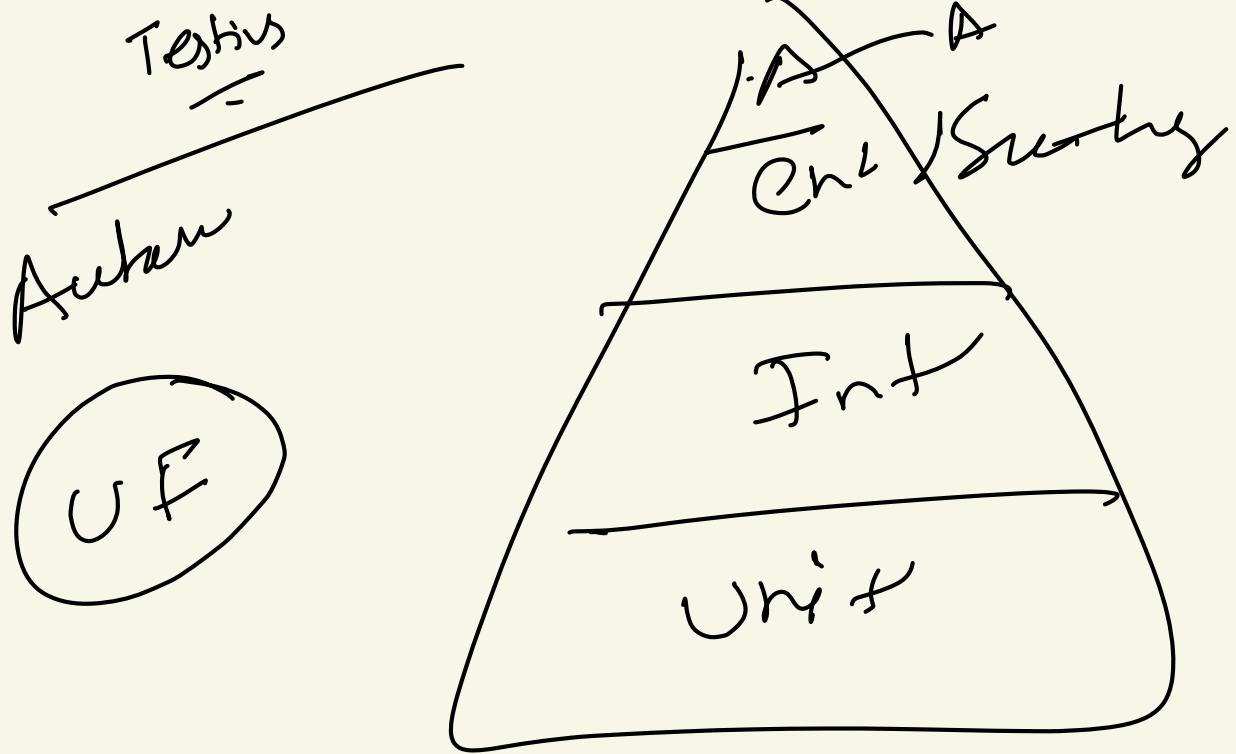
error - bug : C

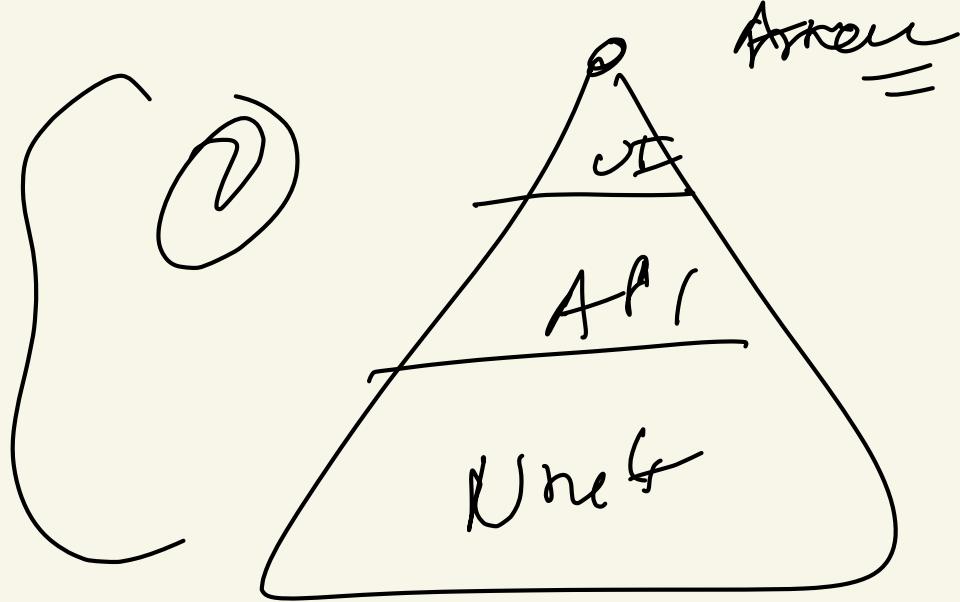


$A\bar{T}$

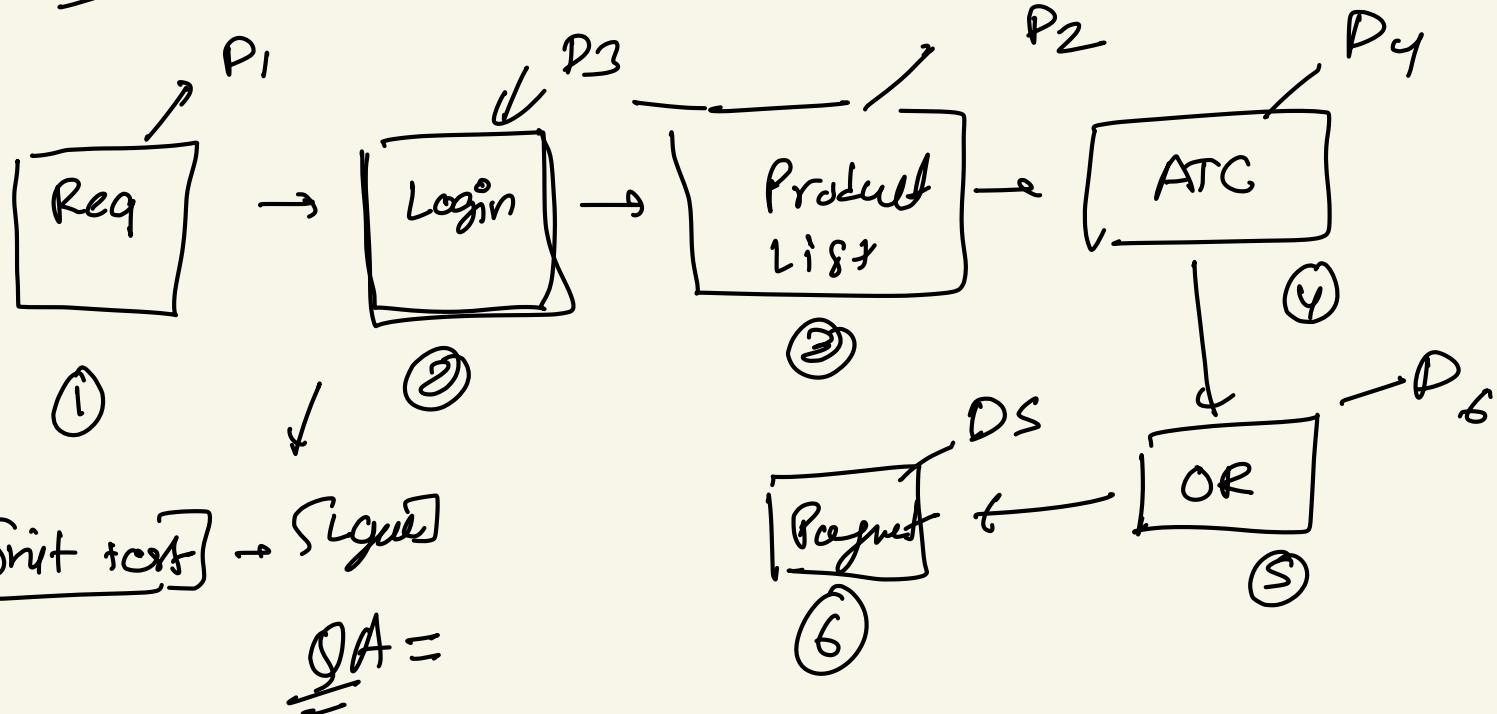








Ecom → Opencart = ? (6) ←



Unit test → Signle
QA =

$$\begin{array}{c} \text{System} \\ \equiv \\ \text{Functionality} \end{array} \rightarrow \begin{array}{c} \text{FT} + \text{NFT} \\ \equiv \end{array} \rightarrow \left\{ \begin{array}{l} \text{Search} \\ \text{PT} \\ \text{Loct} \\ \hline \text{Usercenter} \end{array} \right.$$

* → Automation fast

① → Automation Scripts
② Project - (STLC) →

↳ Req
Test plan }
Test case
- - -
Bug ✓

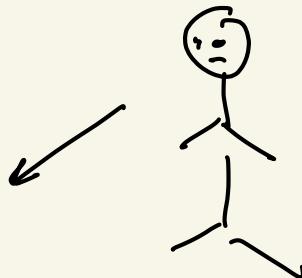
TC1 = login Success
TC2 = login Failed
with Procedure

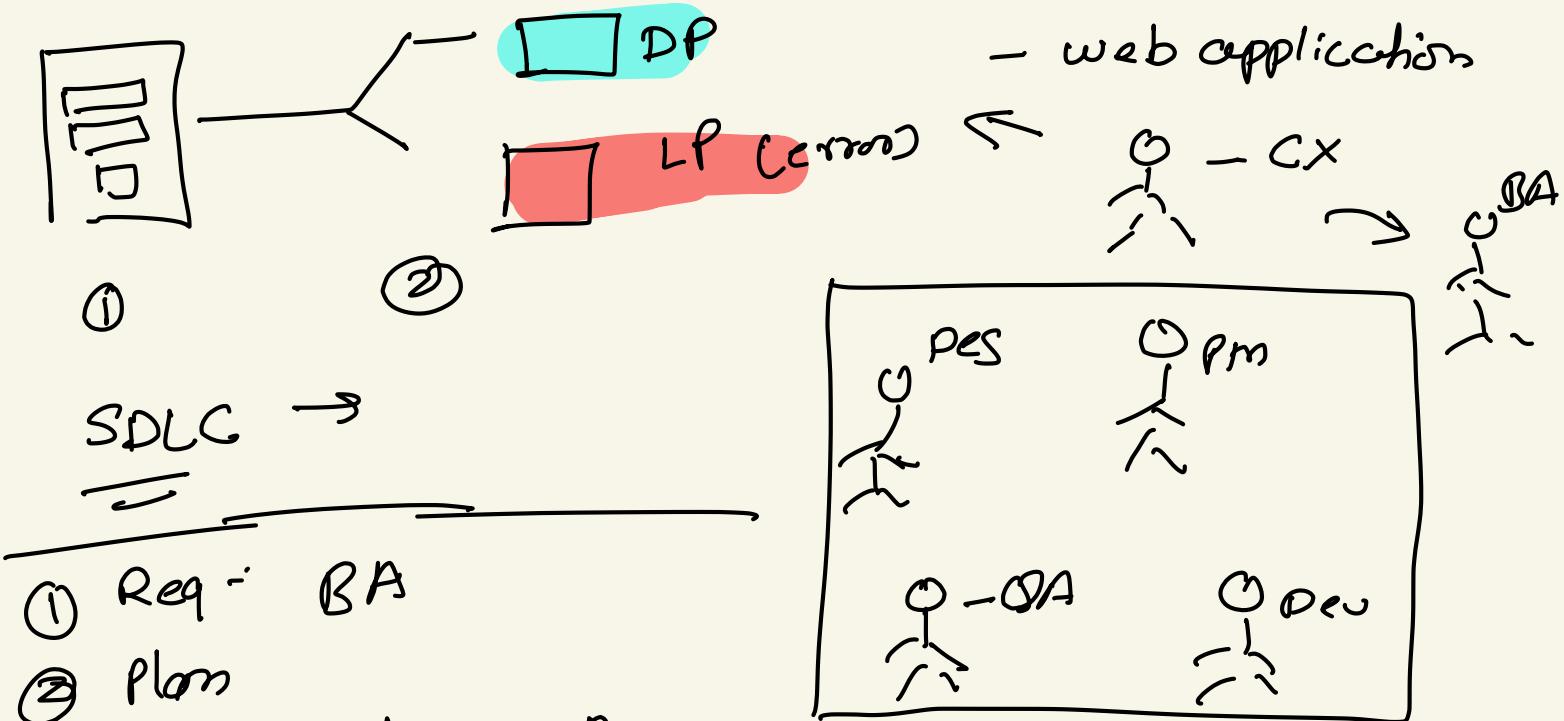
100



→ ②

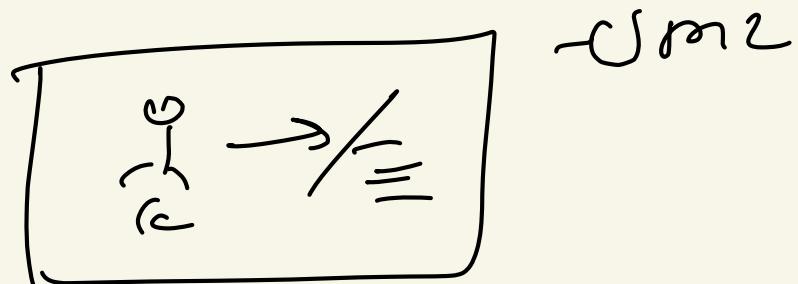
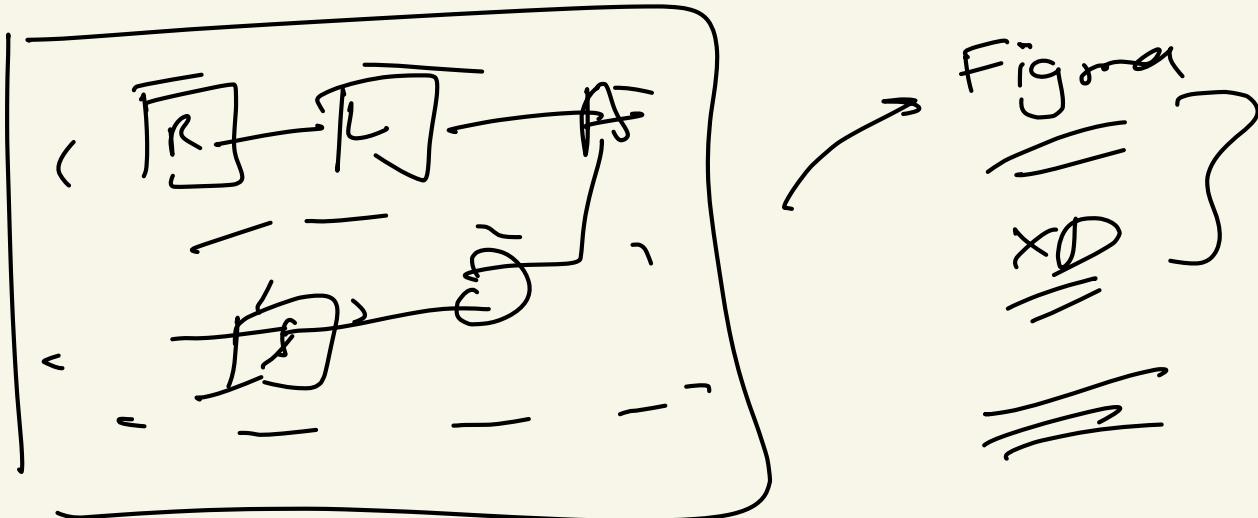
= Po / Repetitive
stable





- ① Req - BA
- ② Plan

Idea → Plan → Req → Develop → Test → End user



SDLC

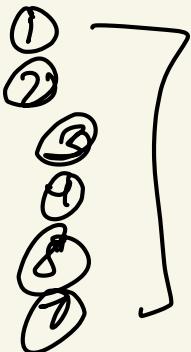


Testing

STLC = !

STLC I

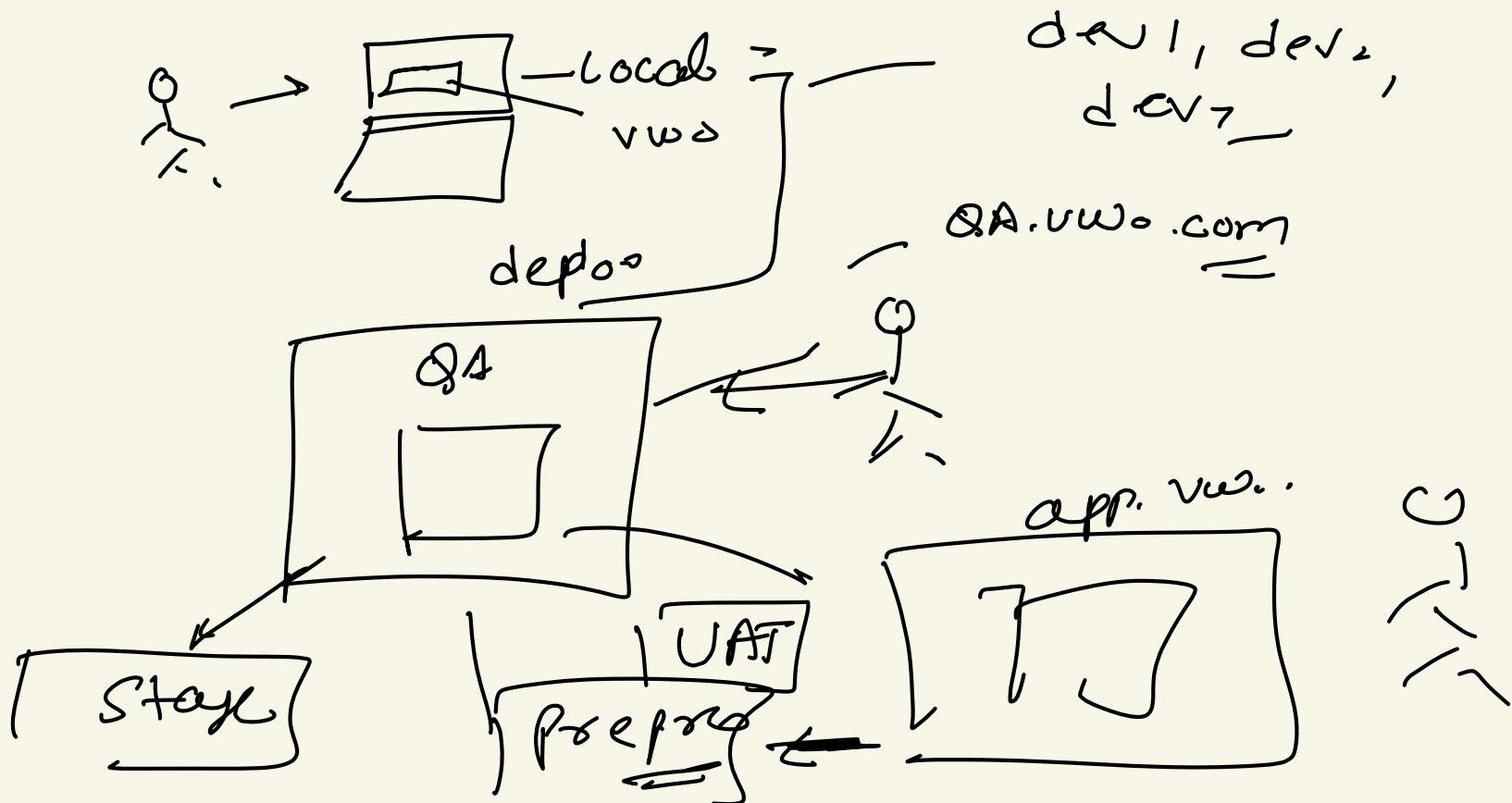
MT #1



Test-Plan →



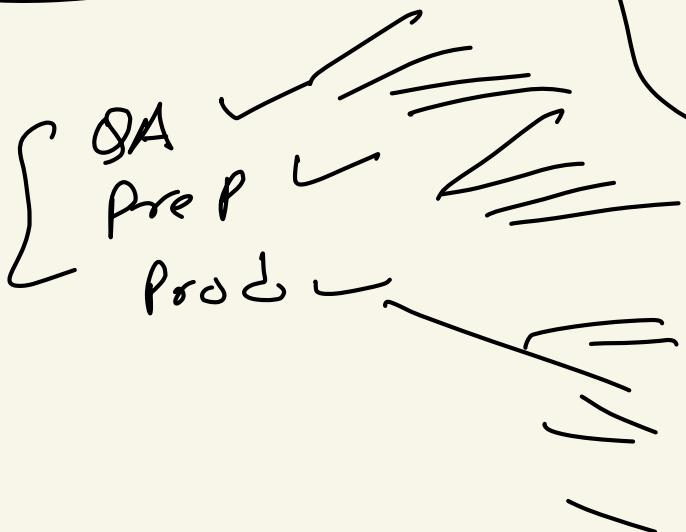
Login → dash (app · views · or)



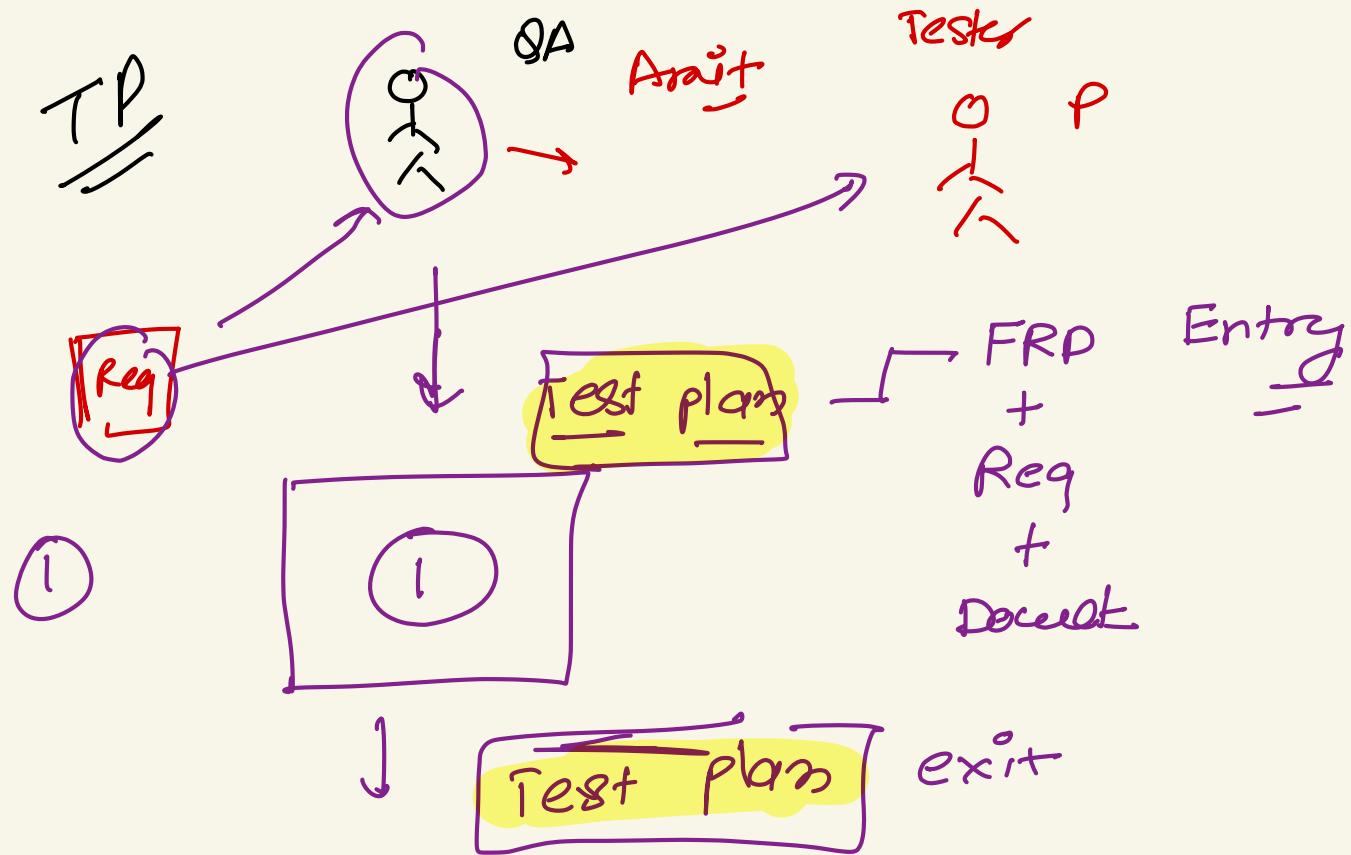


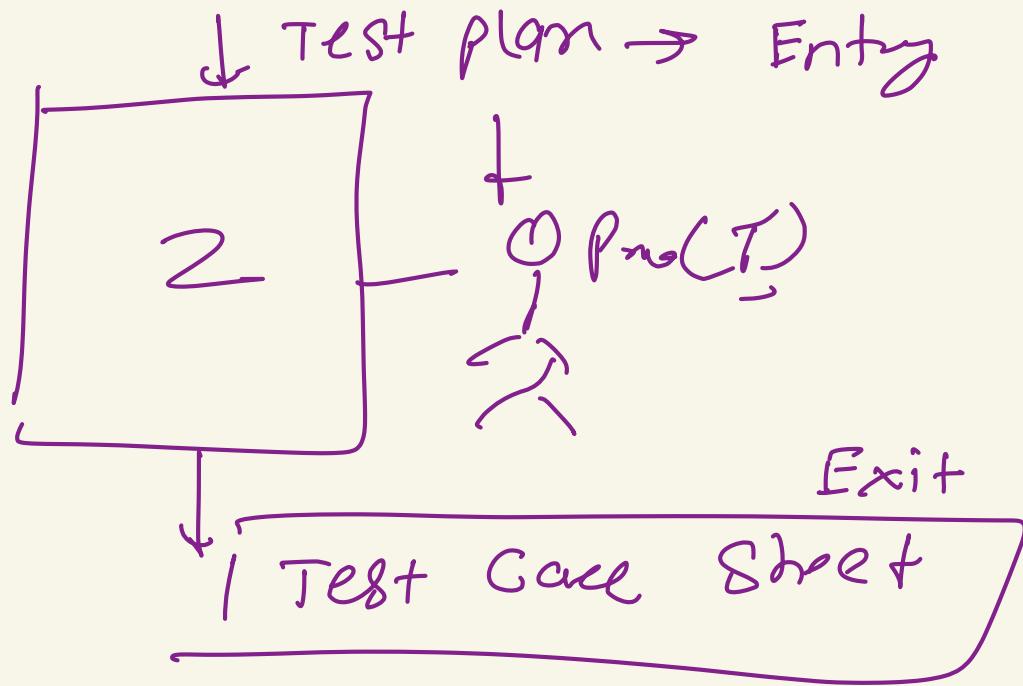
|

UAT



QA
+
PreProd
+
Prod





VWO - com(VMO)

Test Scenario

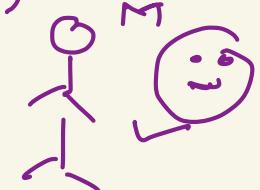
Bring IL MILK

Boing MILK

One Liner



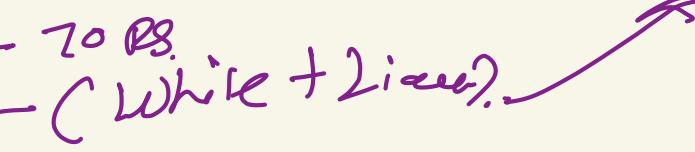
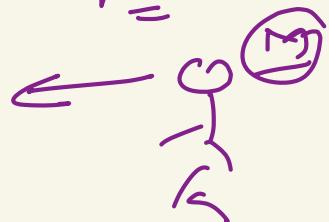
IRS

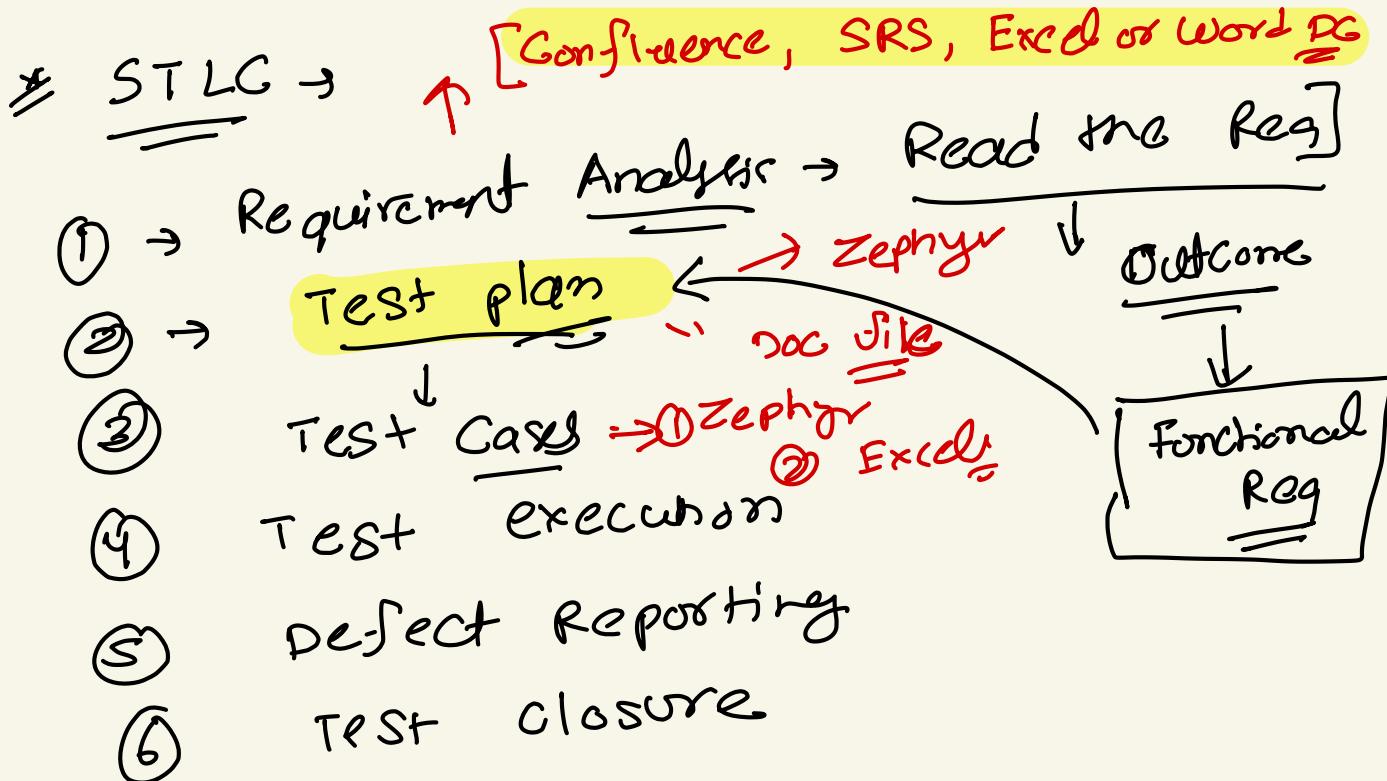


Test Case

detailed steps

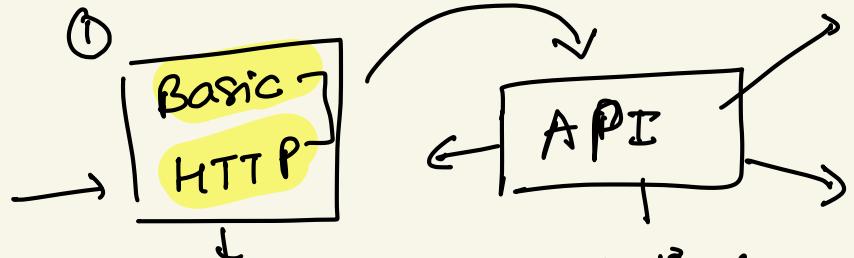
- ① go to Sue R
- ② ask for ML
- ③ IL, C.R. - 70 RS.
- ④ → IL.M - (White + 2 liter?)





API →] FB, Twitter - API =

=
=



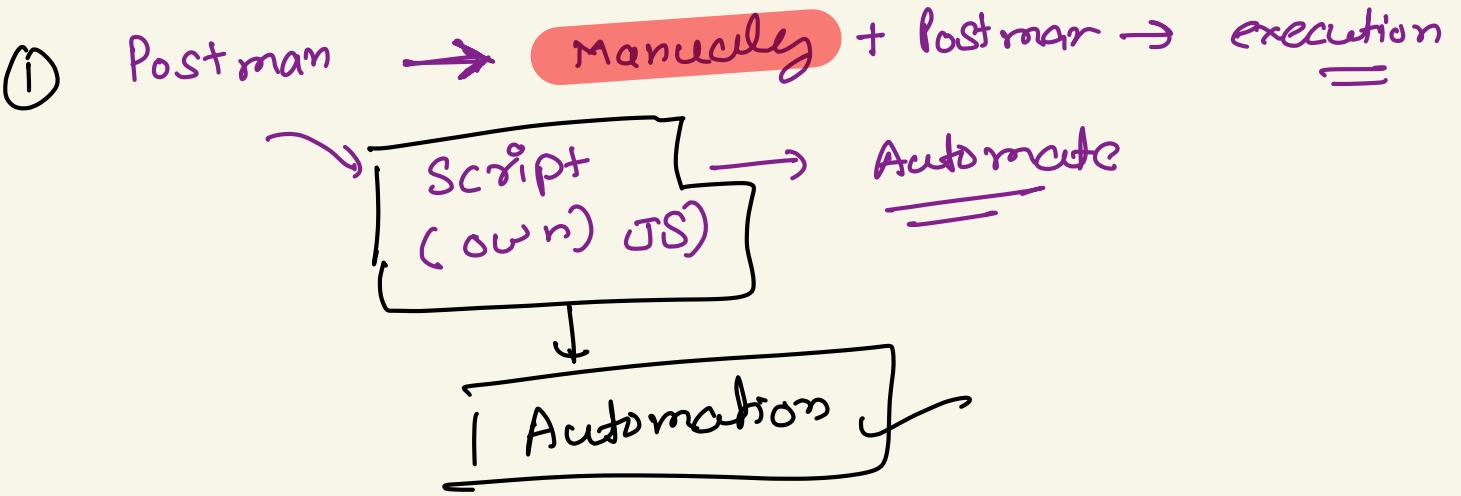
- Manually
- Automation
- ① Req A
 - ② Testplan
 - ③ + test Case
 - ④ Execution
 - ⑤ Defect
 - ⑥ Deploy.

ECE, IT, CSE
MT

Testing

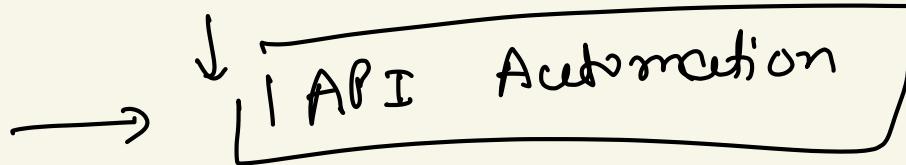
① Postman
Swagger
Rest clients
⋮

Develop → testing



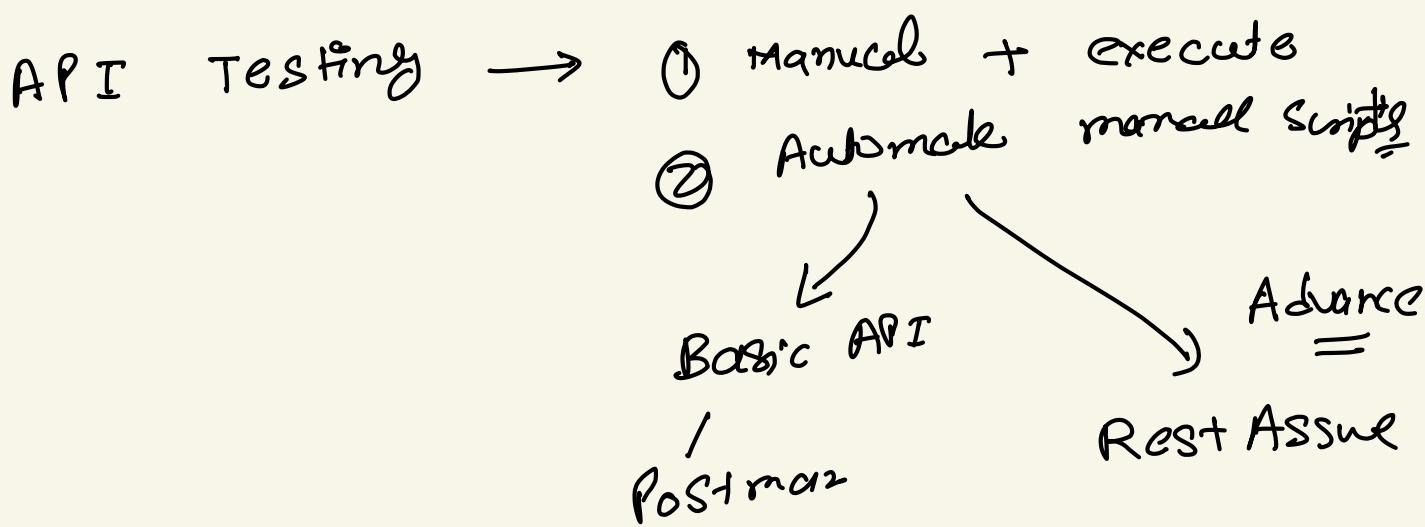
API Testing → Manually → Postman
→ Automate Some scripts

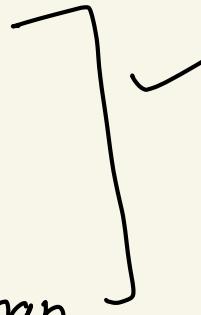
② Rest Assured (Java lib)



→ Postman can do Automation
Why we using RA ?

- ① Duplicacy
- ② you can't do everything in Postman
- ③ Limited Automation



- ① Basics of HTTP
 - ② API → API testing
 - ③ CRUD → Basic CRUD → Postman
 - ④ Basic test case also with Postman
- 

*
*

What is HTTP ?

- C1 →

HTTP - Cookies

HTTP - Headers

HTTP - Authorization / Authentication

HTTP - Methods

URL Basics

MIME - types

type of Resource

MIME →

text / HTML

MP4 →

MP3 →

3GP →

HTTP

Hyper

text transfer

protocol

Rule

↓ ?
=

Client - Server

Chrome

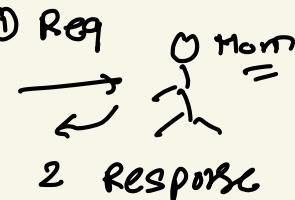


Client

Request

Server

Respond



google
Server

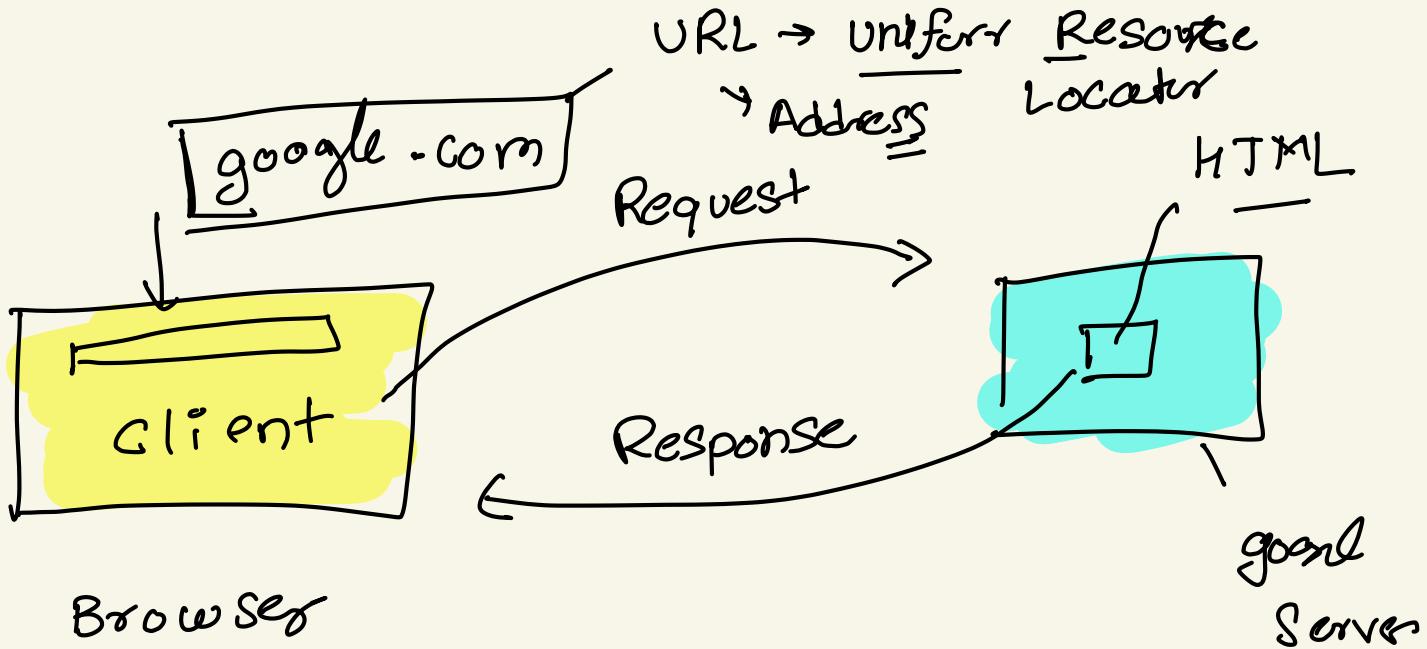
Mobile /
Fridge
tablet, iOS, TV,

① text = Resource
②

text file, MP4, Audio
image, GSV, HTML, JS, CSS

PDF, XML, JSON, Png ..

Clear

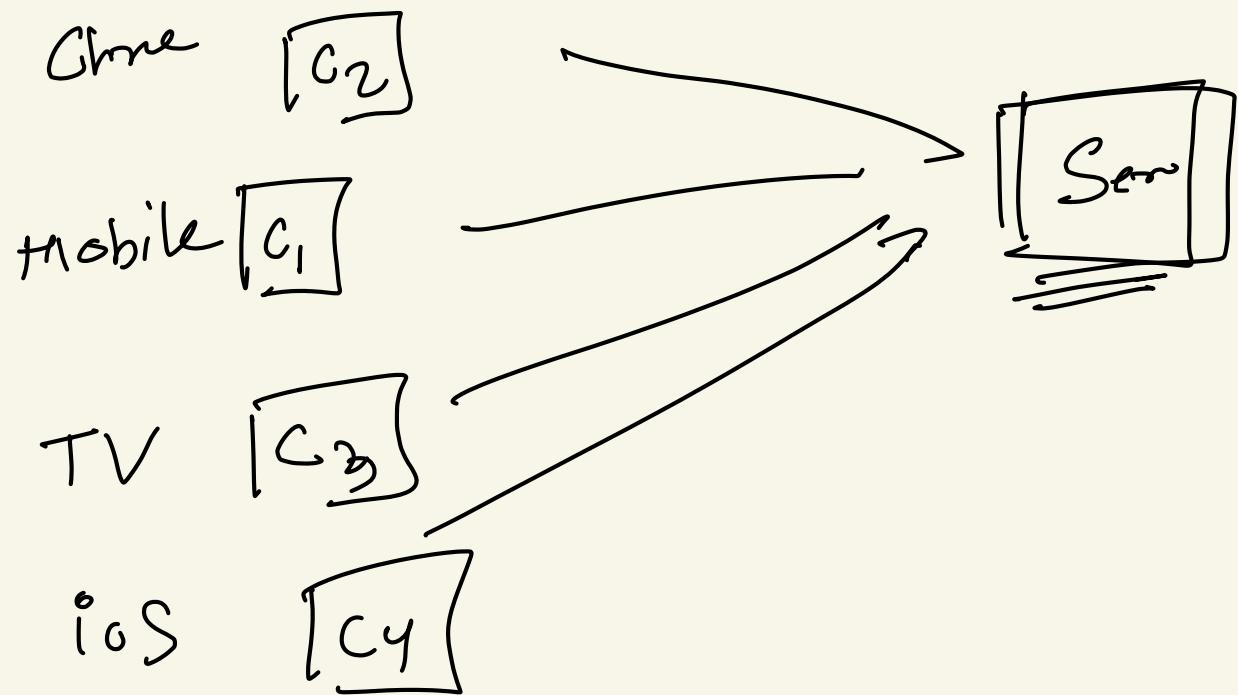


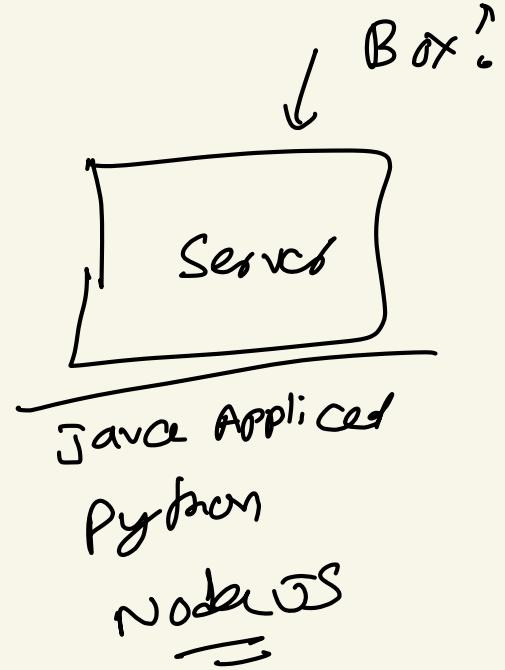
Browser

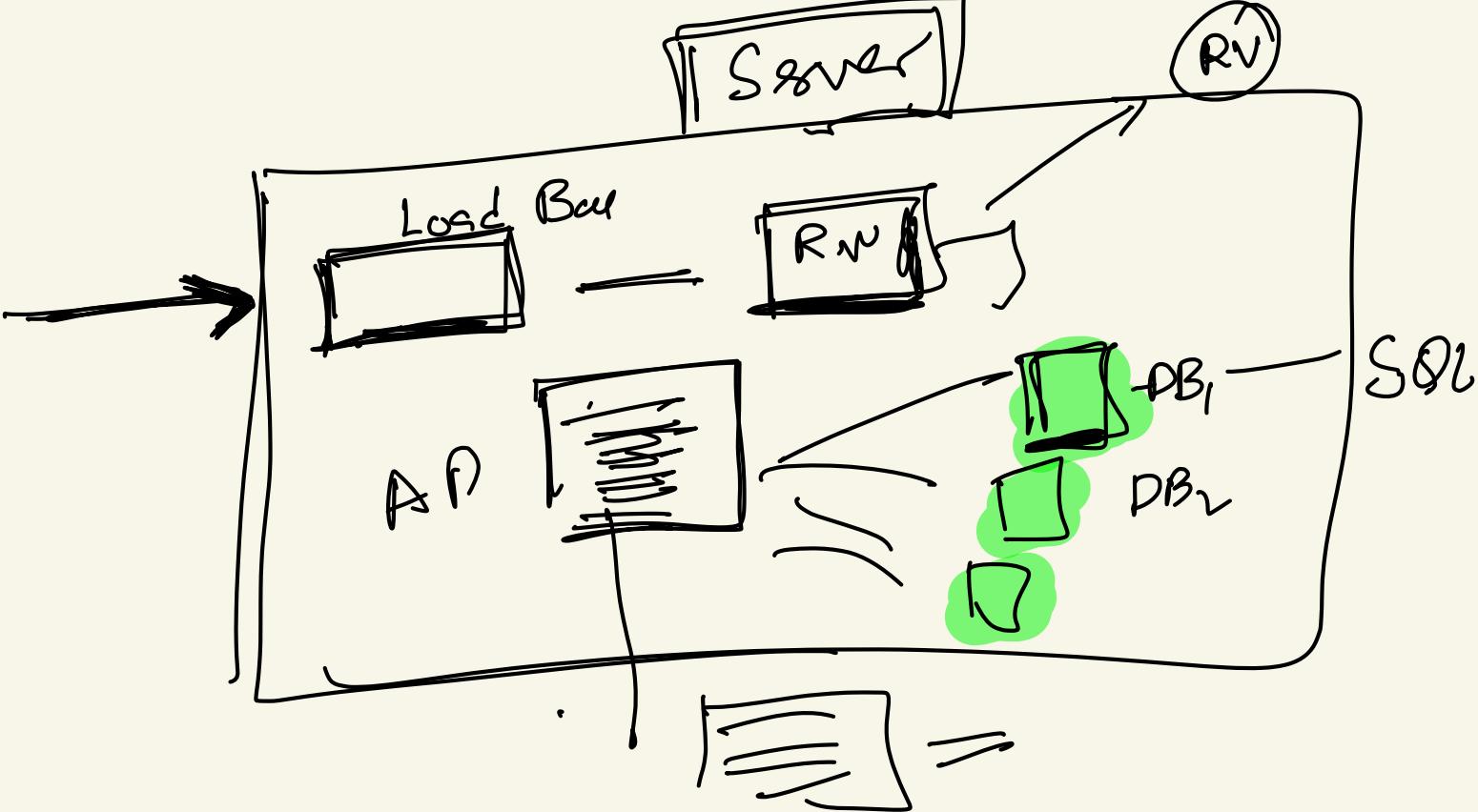
- ① → HTML
- ② JS, CSS, image

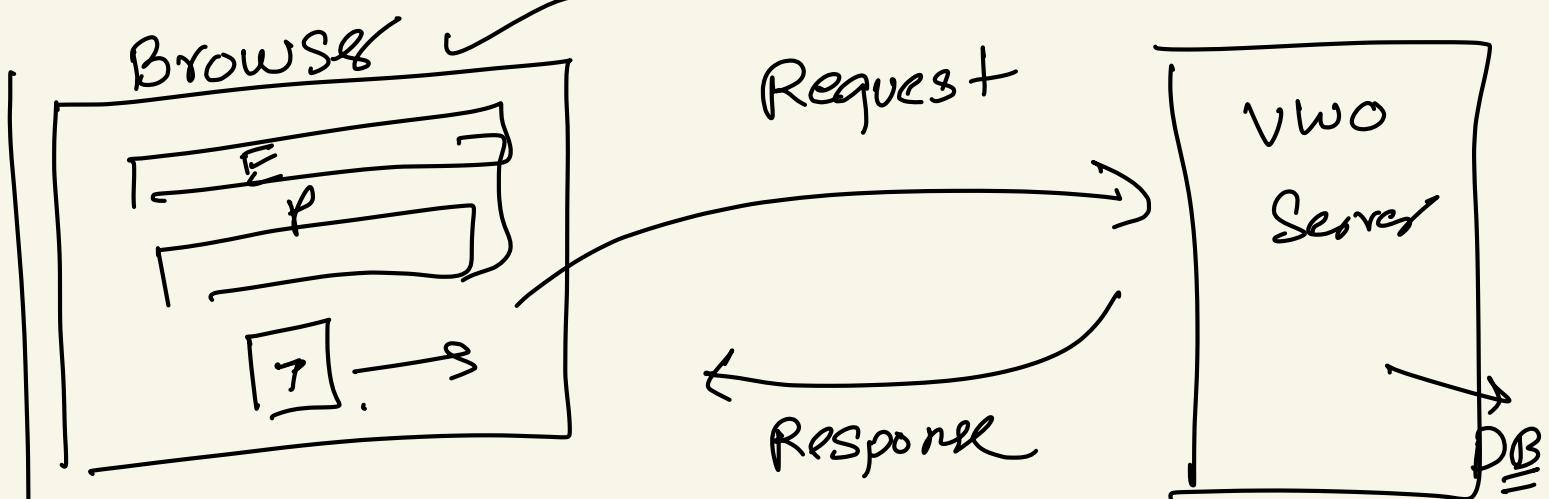
Protocol

- ① client will req to Server
- ② Server will resp to Client







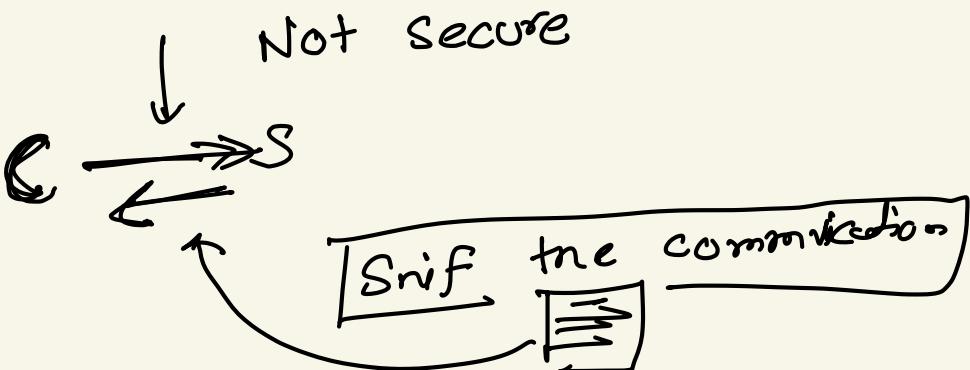


if (Passw == mew) = Dashpa
; f (Pass ! = m) = Log in
easy

HTTP → protocol used to transfer data
|
Between Client / Server = ↑
Resource =

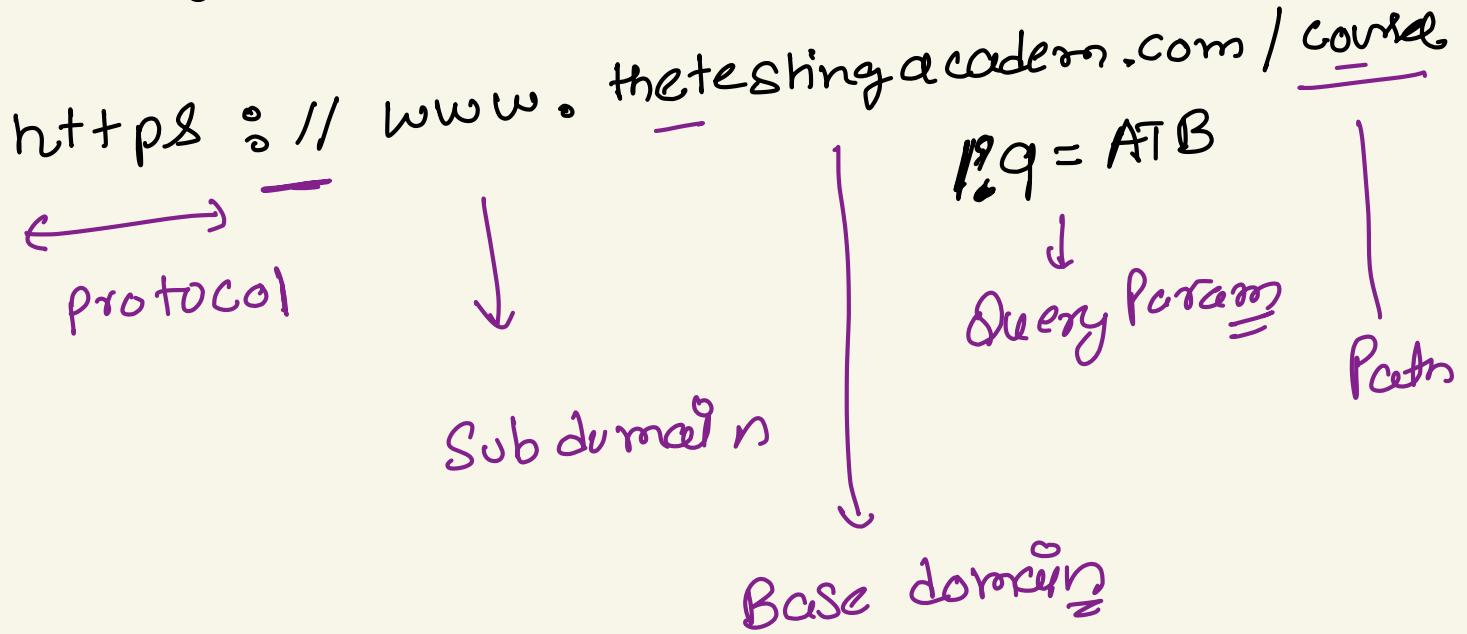
- * HTTP S (secure)

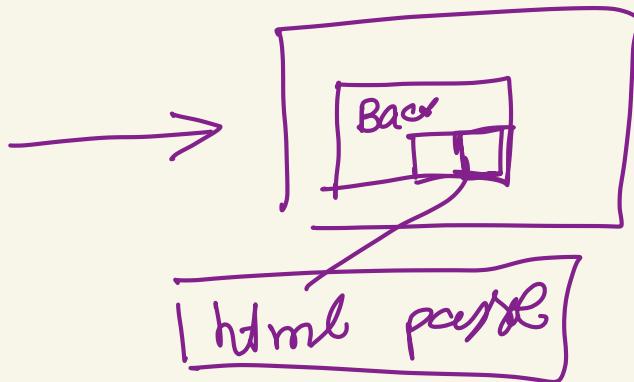
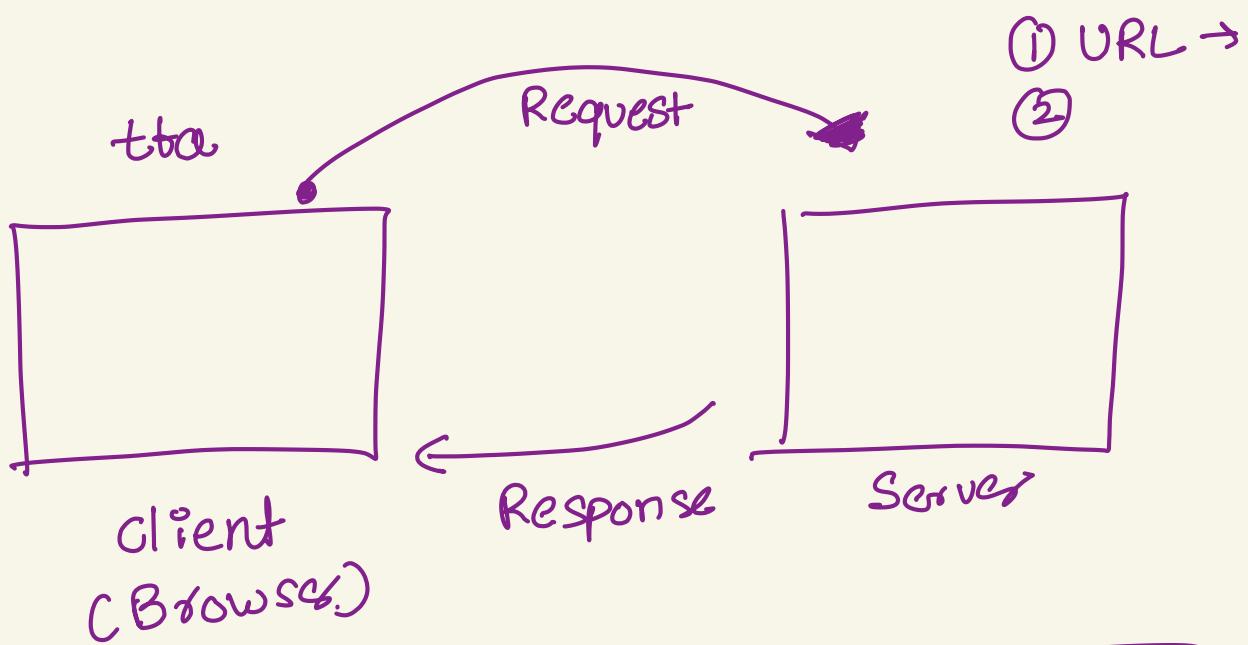
HTTP ↓
HTTP S (2.0)
encrypted ←



URL → uniform Resource Locator (Resolve over internet)

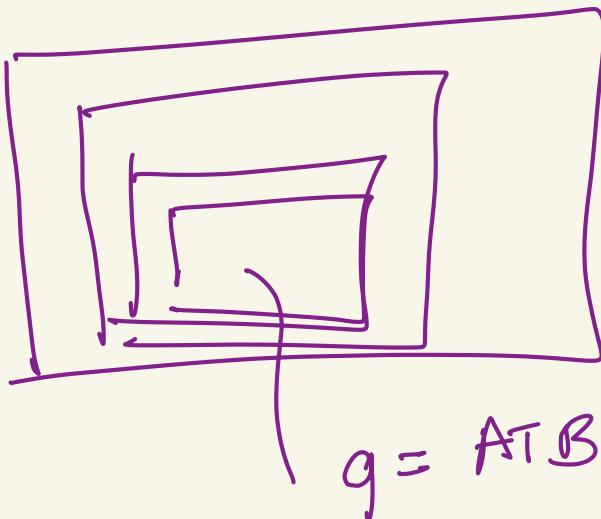
=



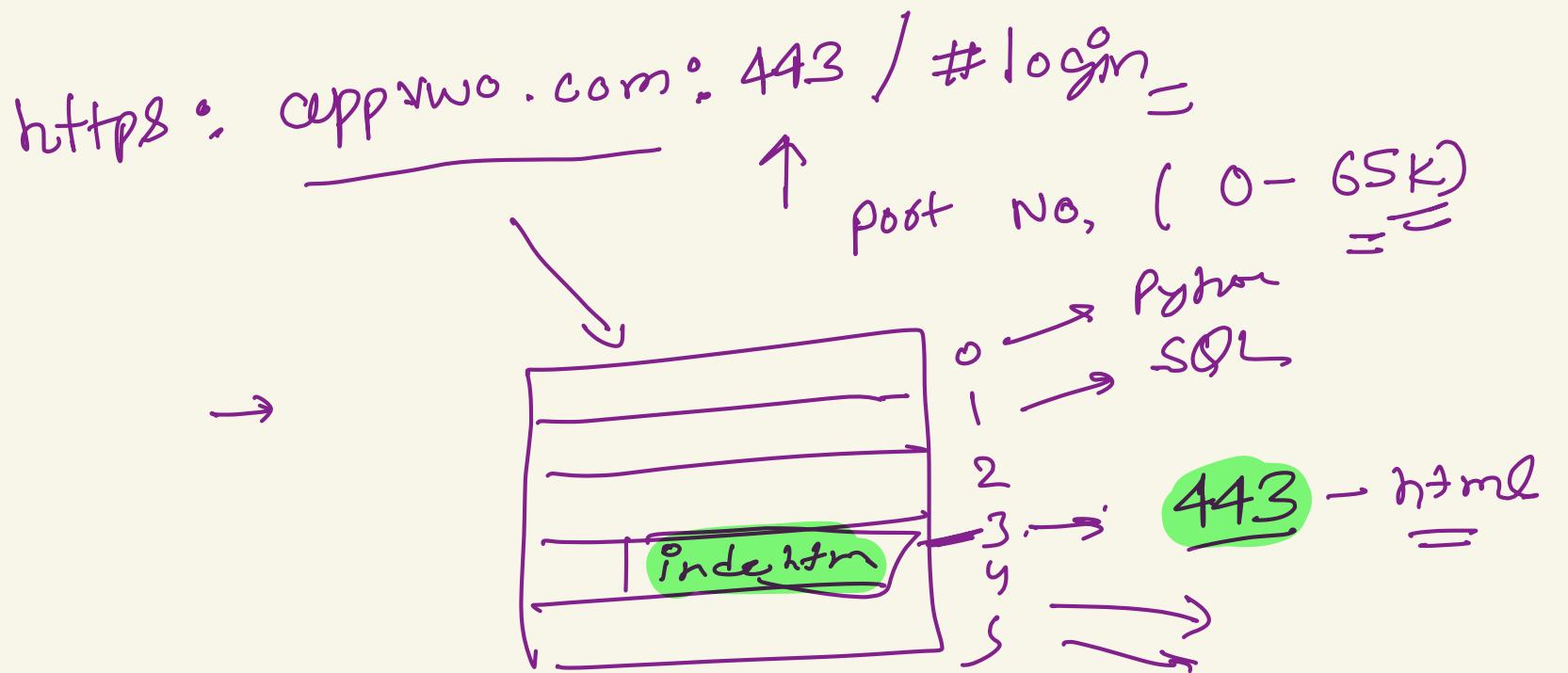


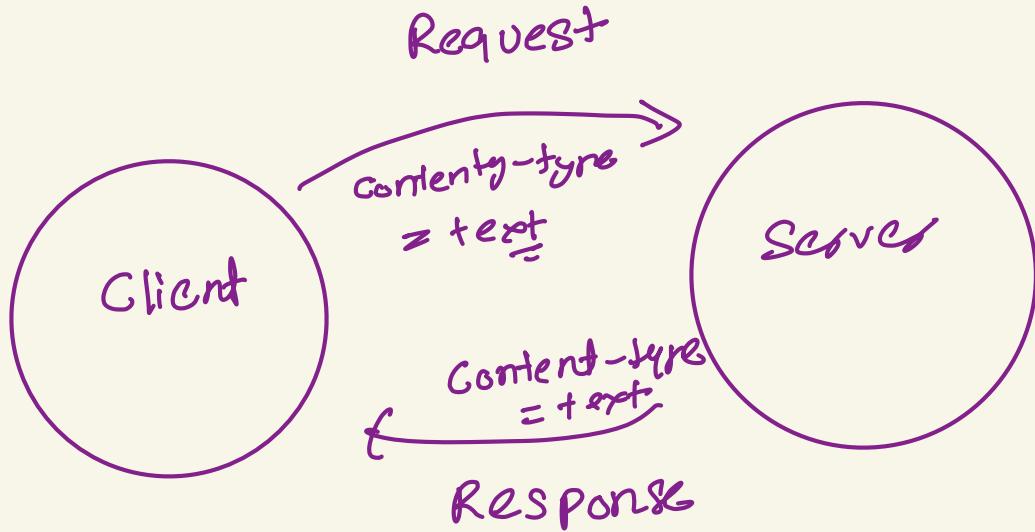
$https://www.google.com/alb)cl?g = ATB$

Sending to
client



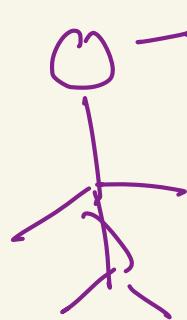
Search of
ATB on
a html



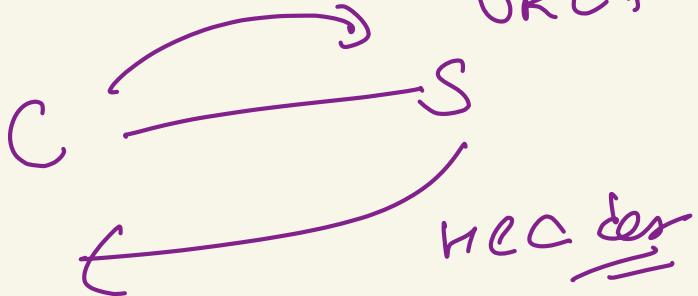


- ① URL ↗
informs ($K = V$) =
- ② **Addit'mals** → header
Content-type = text/plain

Headers



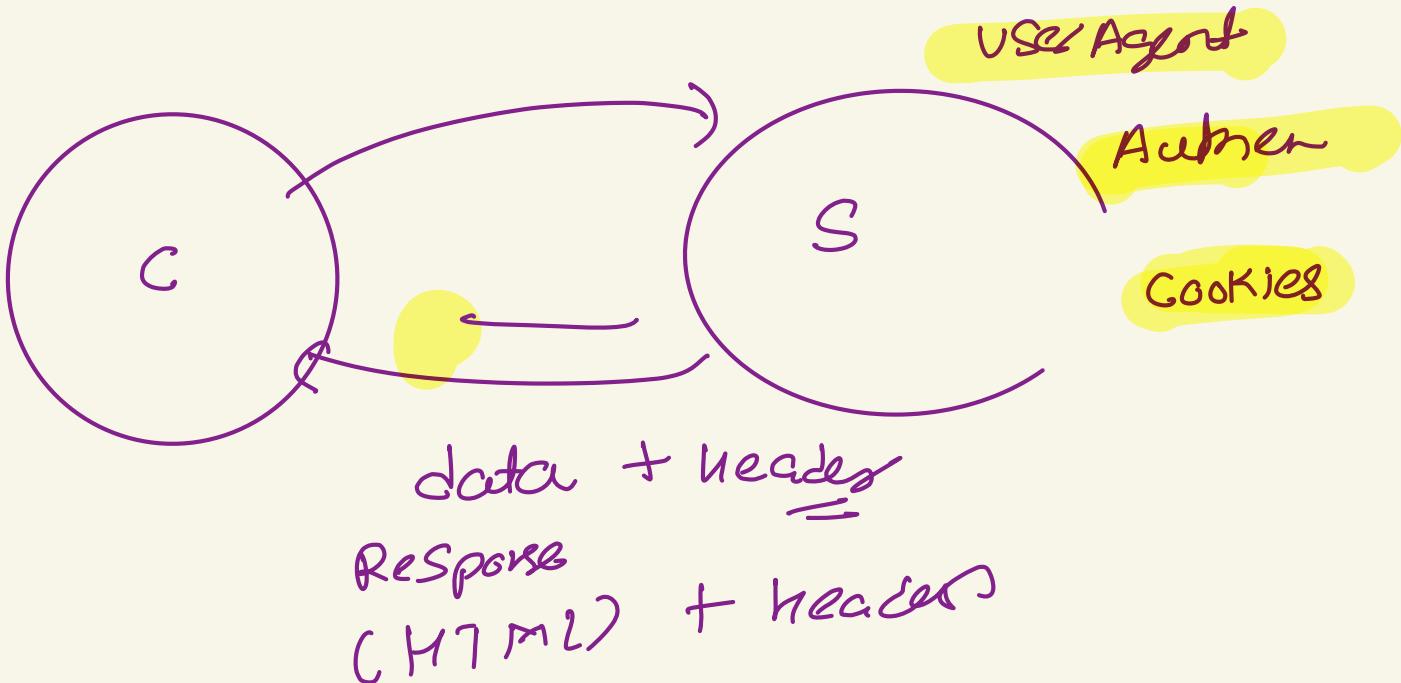
C - head (meta) ↳ Basic information
to send as



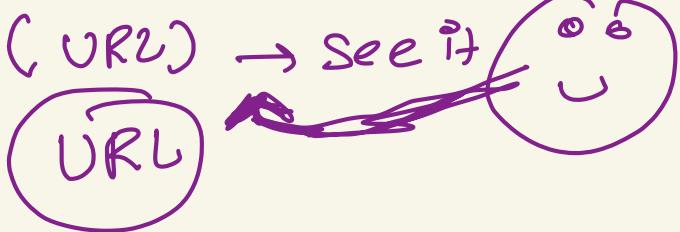
K = V

URL + header

URL + Headers (K=V) → Content-type



Header - QP, (URL) → see it



↓

choose dev tools

Req = URL [QP]
+
Header

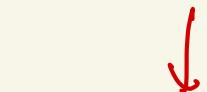
→ debug (mole)



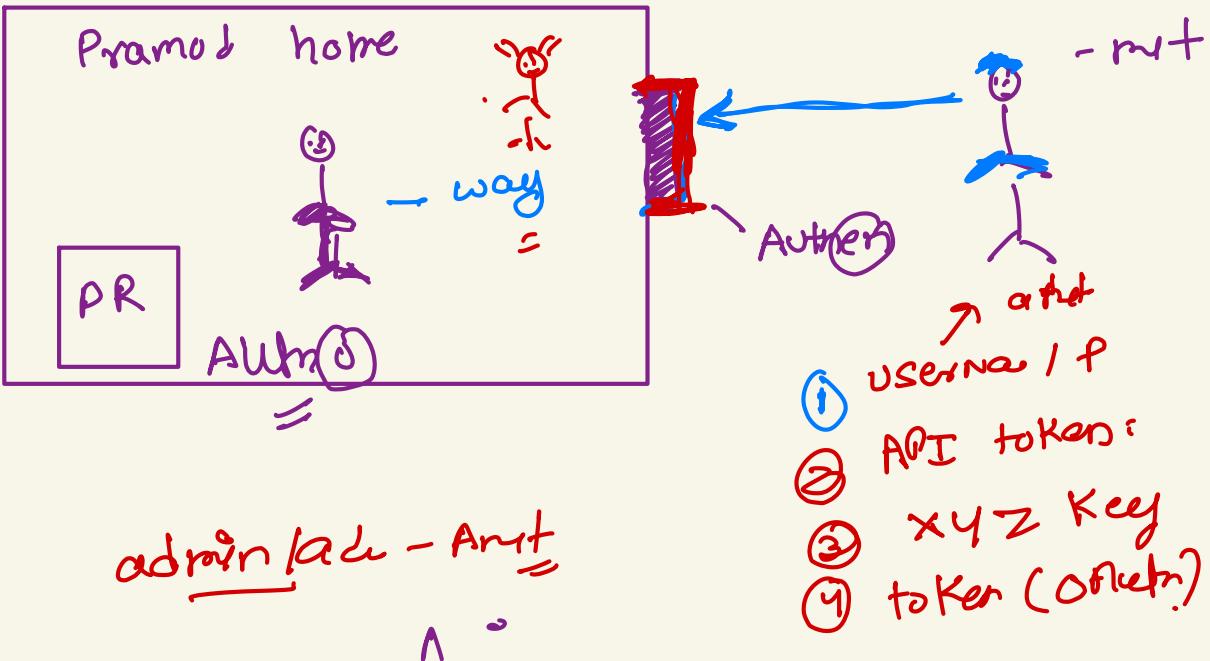
Authentication

VS

Authorization (Permission) ✘

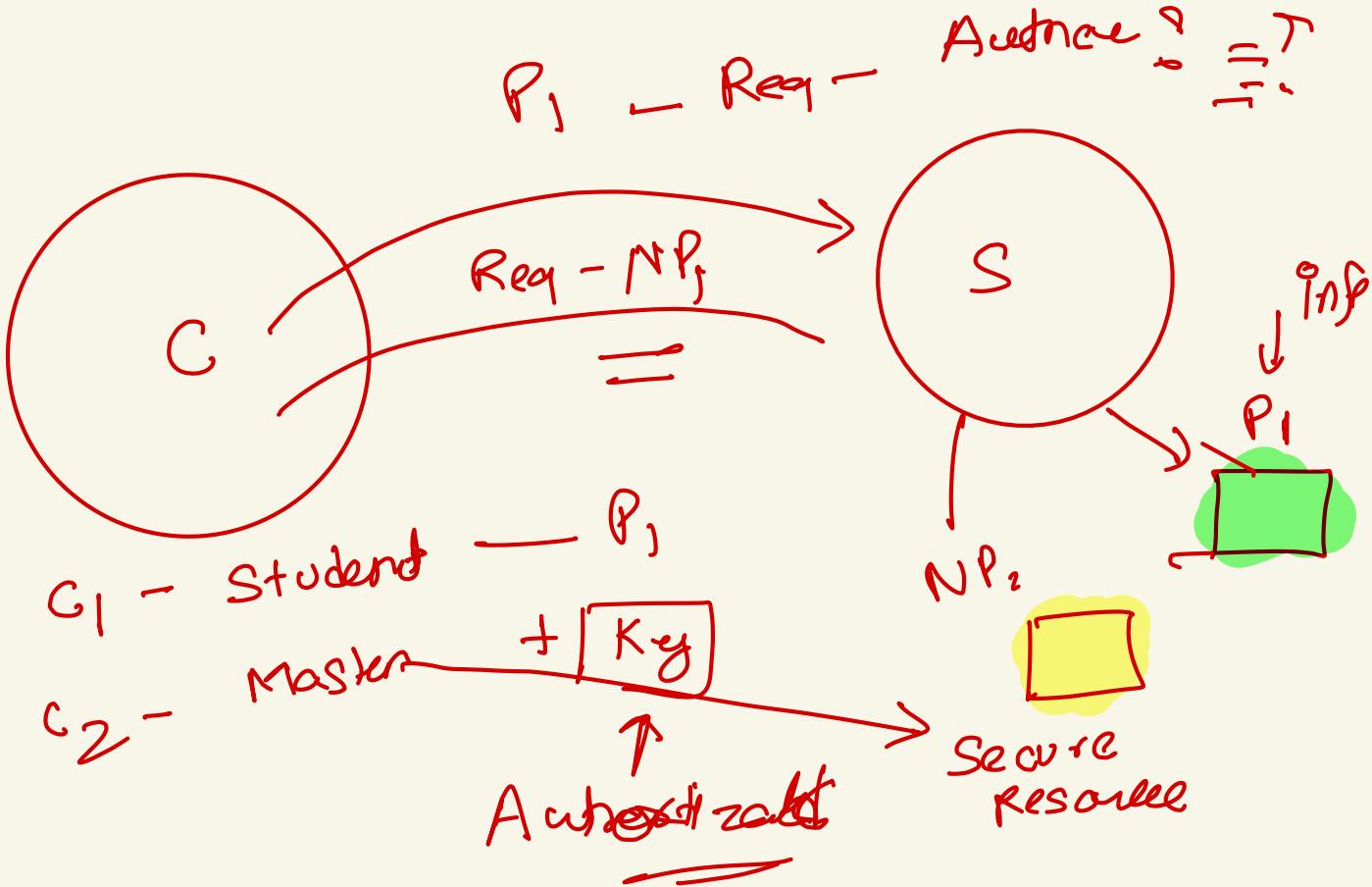


who are
you?



admin / ad - Auth

^



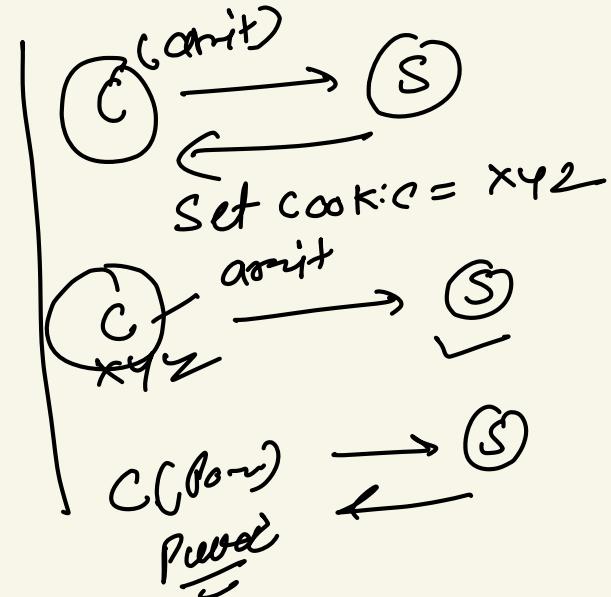
HTTP - Cookie \rightarrow $k=v$

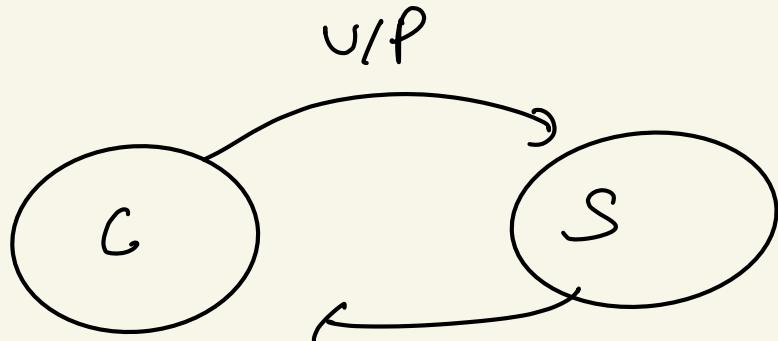
key = value

① Session management

② Tracking \rightarrow

③ Personalization



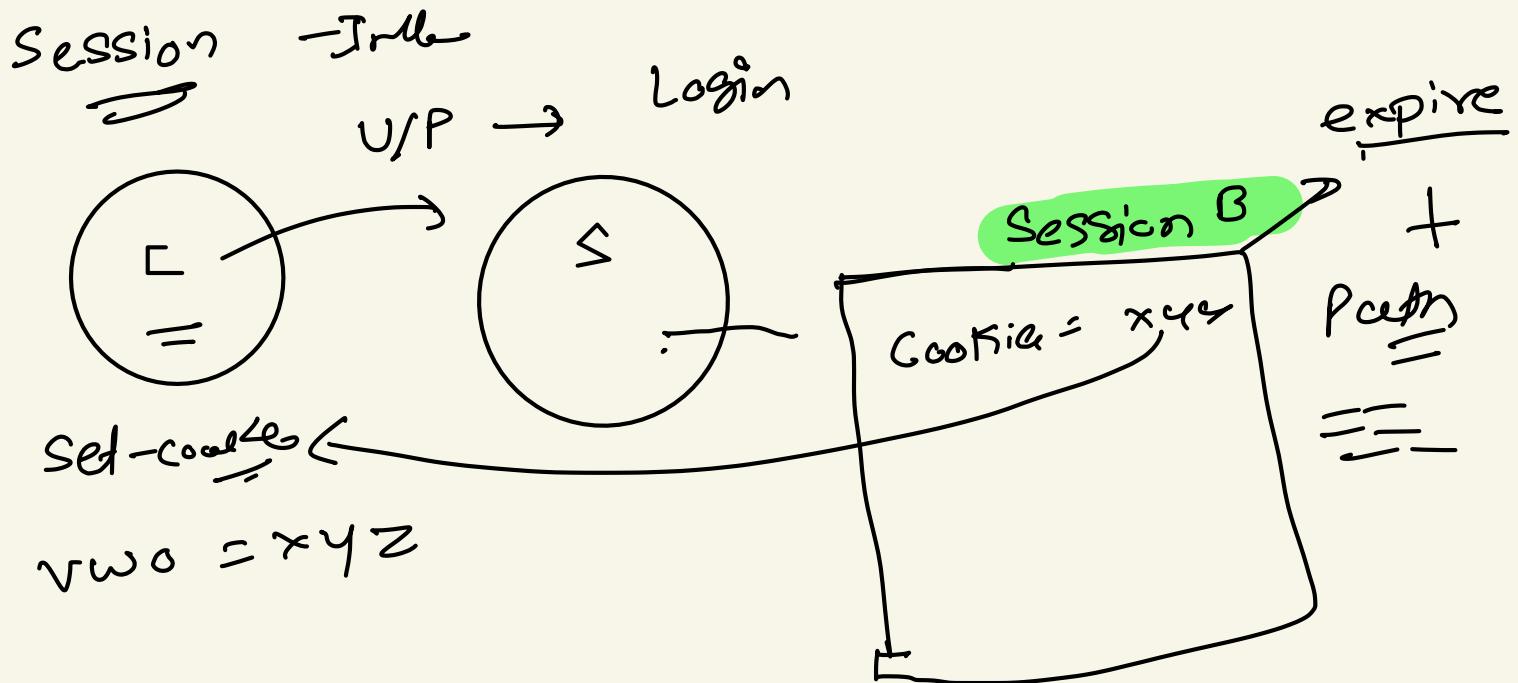


\Rightarrow Set - ~~Cookie~~ = $e \dots z$

$vwo = e \dots z$

R_2

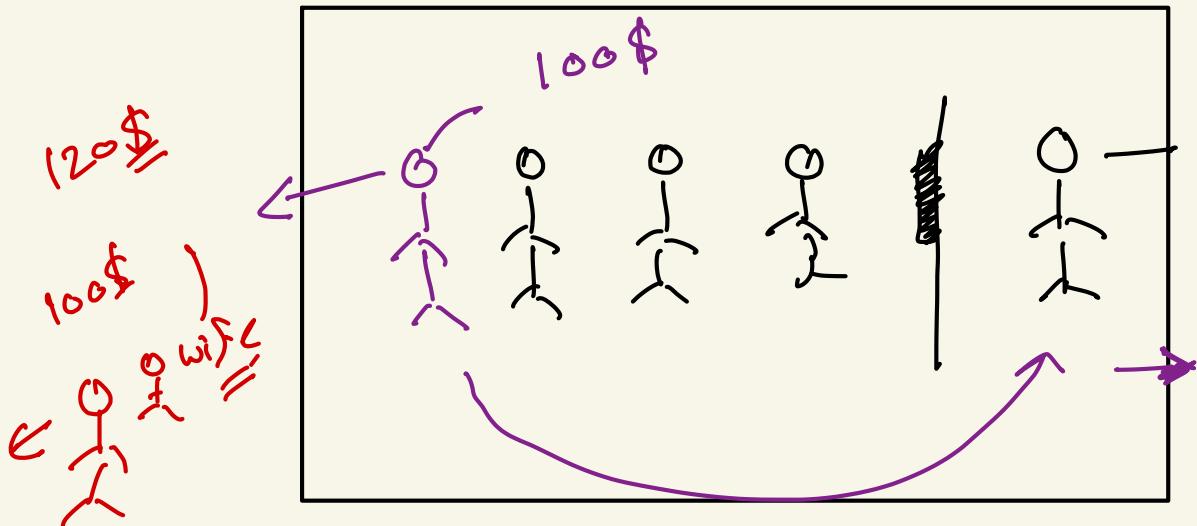
$vwo = e \dots z$ = ~~egz~~



why we need

Authorization

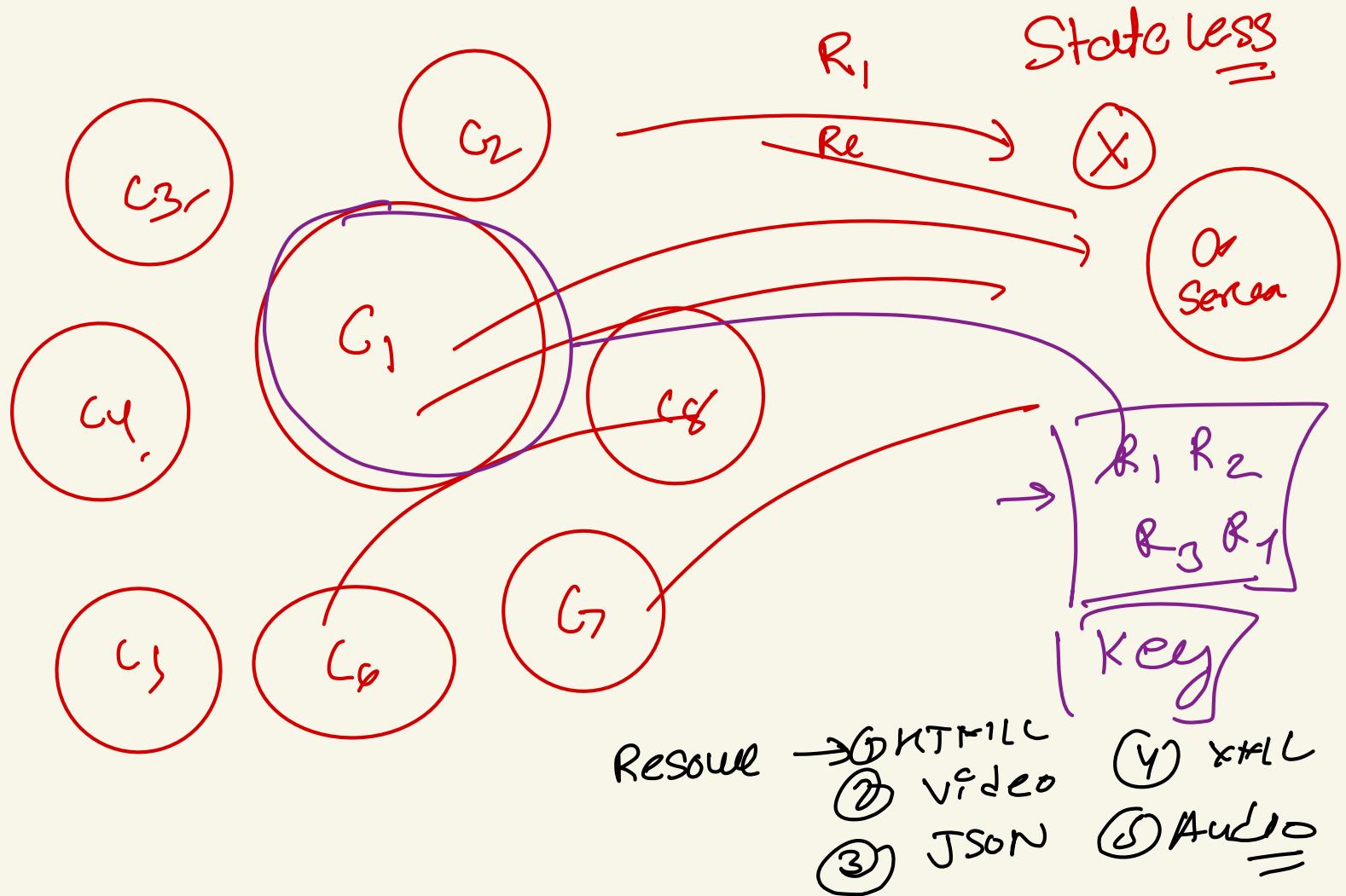
cookie
API Key
OAuth?.
Basic



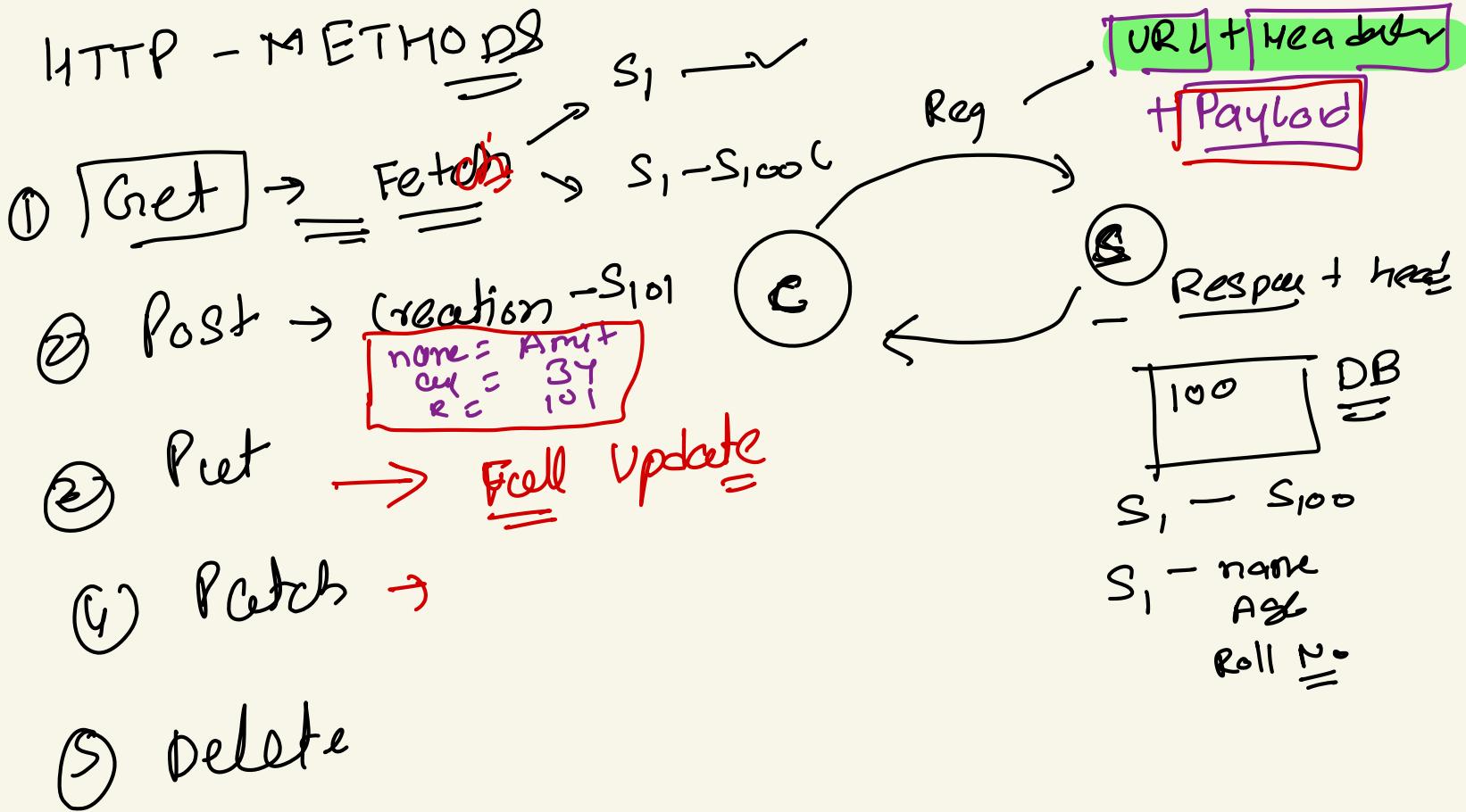
Cashier
(Server)

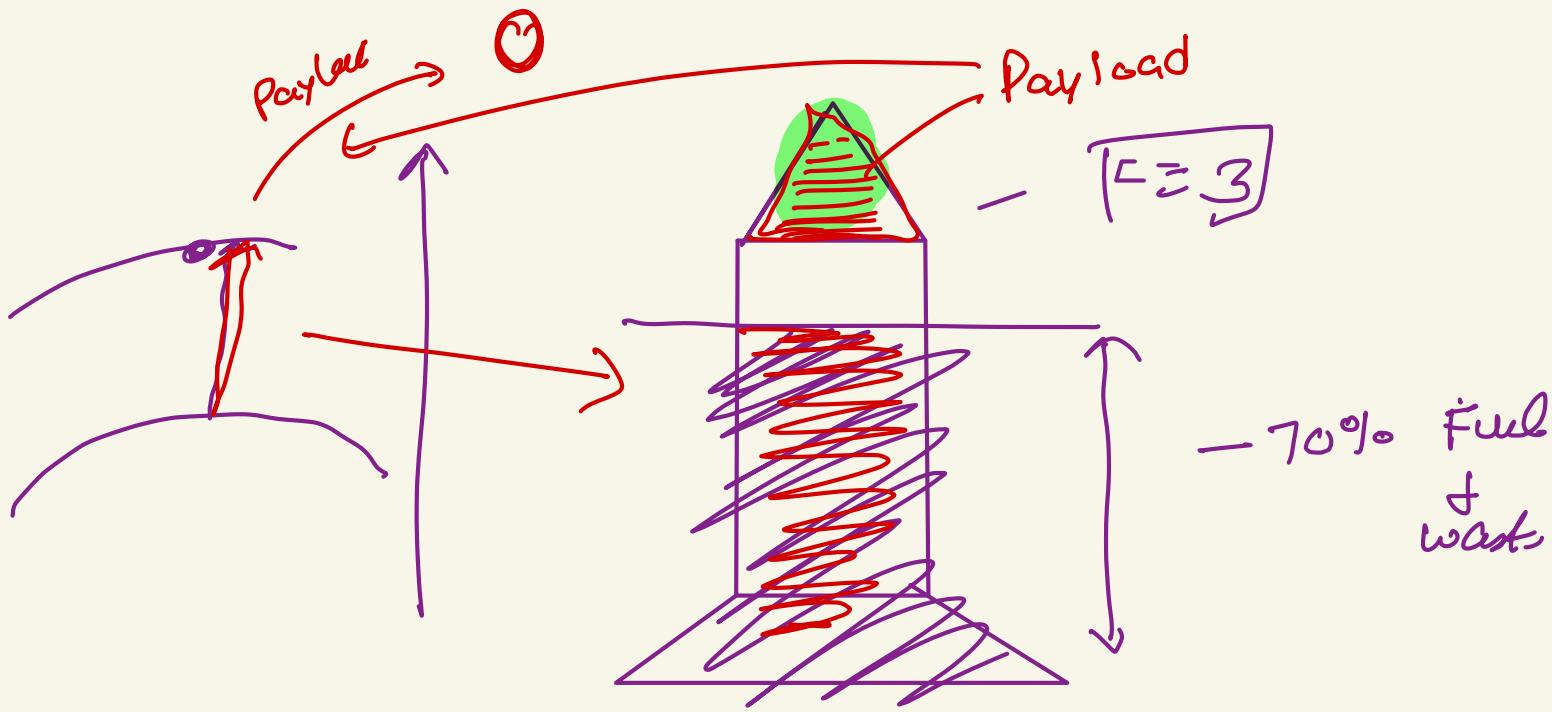
$$100\$ \text{ ASK} = \frac{\text{Key}}{==}$$

- ① UIP
- ② API
- ③ Key
- ④ Pass



HTTP - METHODS





PUT

Full Update

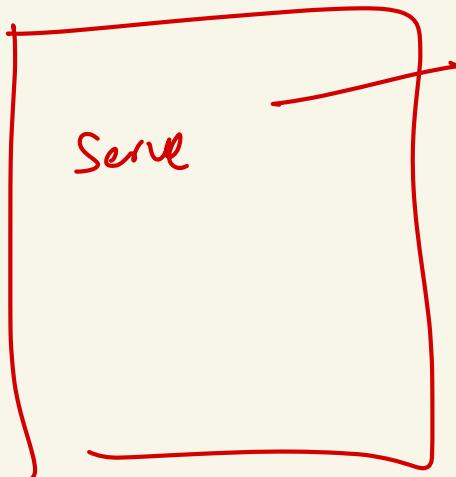
max = 26

avg = 100

rel = 100

Point 2

100



S_{100}
=
ball = Sarga
avg = 37
= 100
=

Patch

— Partial
Update

name
Amit

Delete

S_{100}

$\text{name} = \text{Sam}$

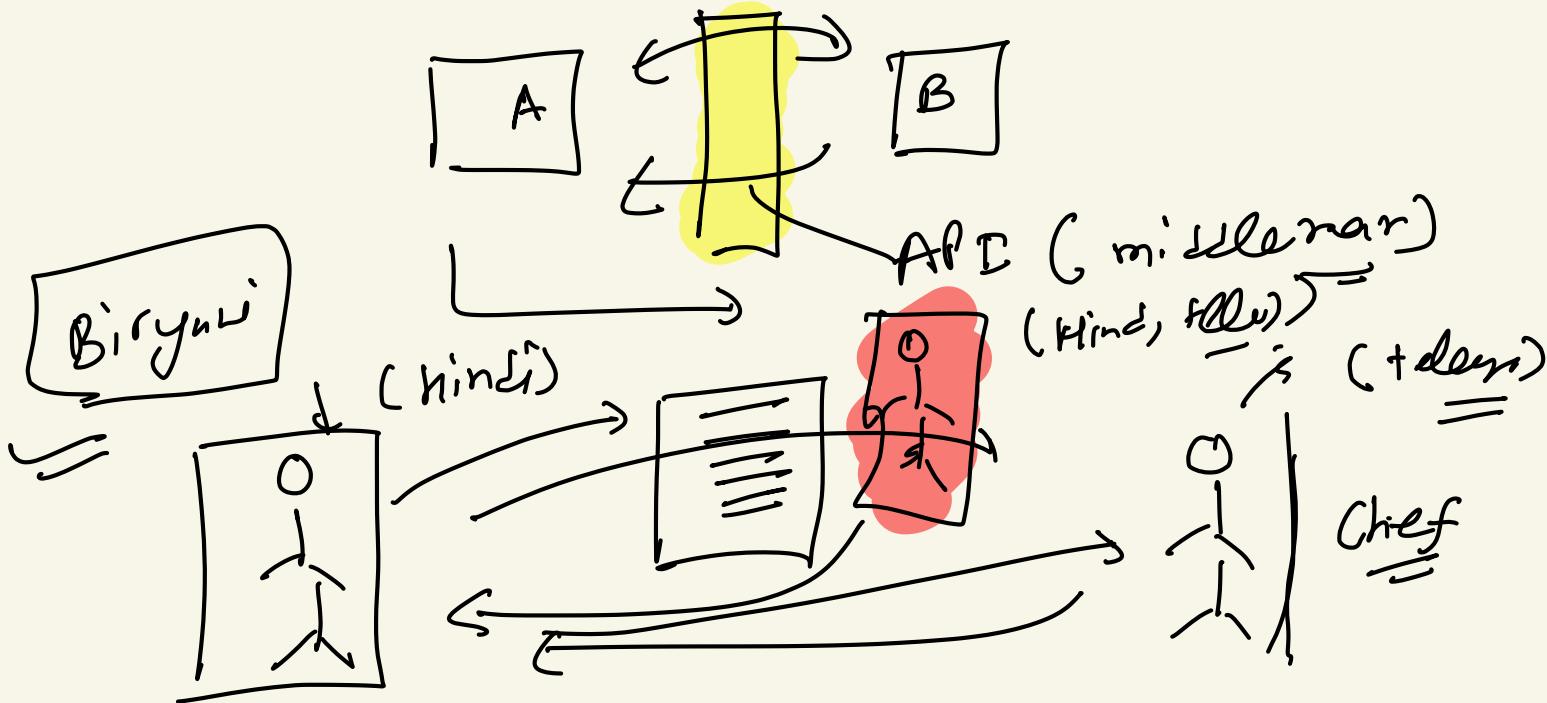
$\text{Age} = 34$

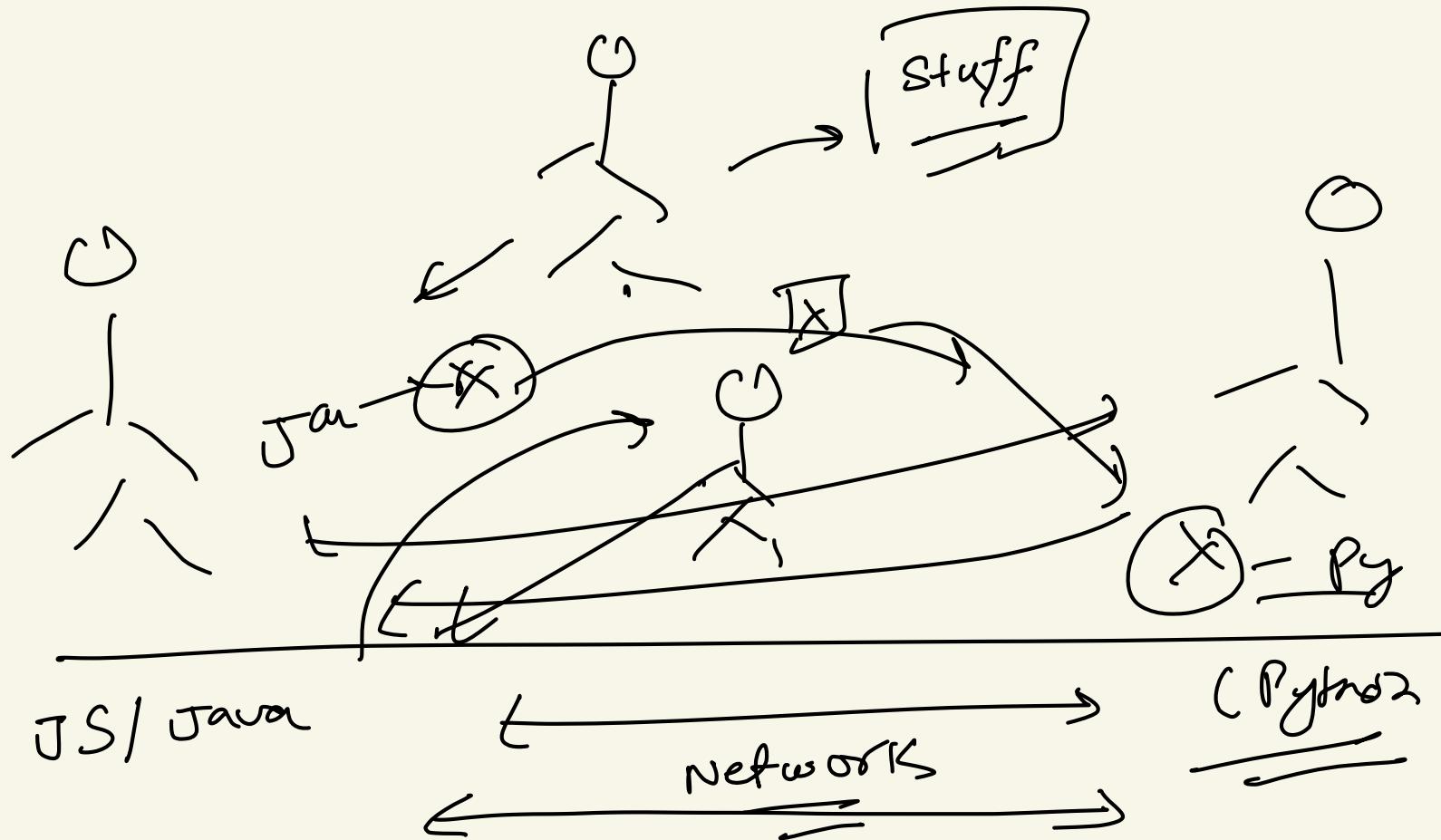
$R = 100$

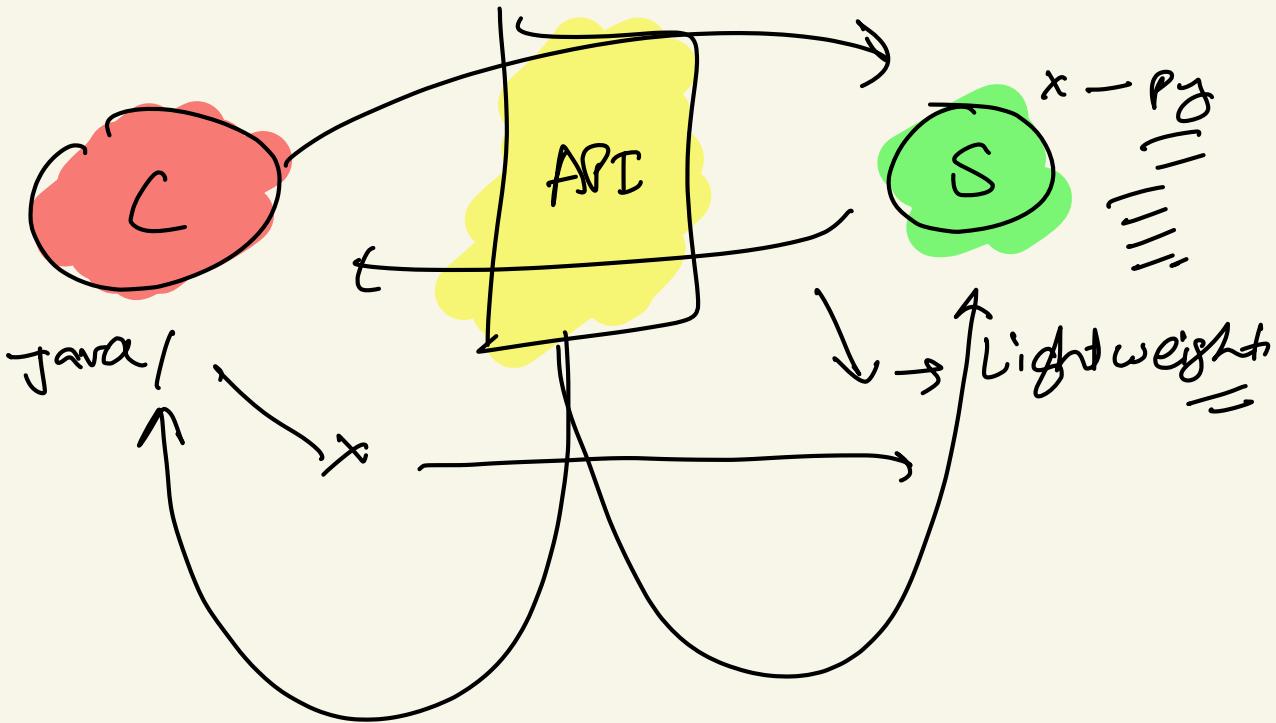
S_{100}

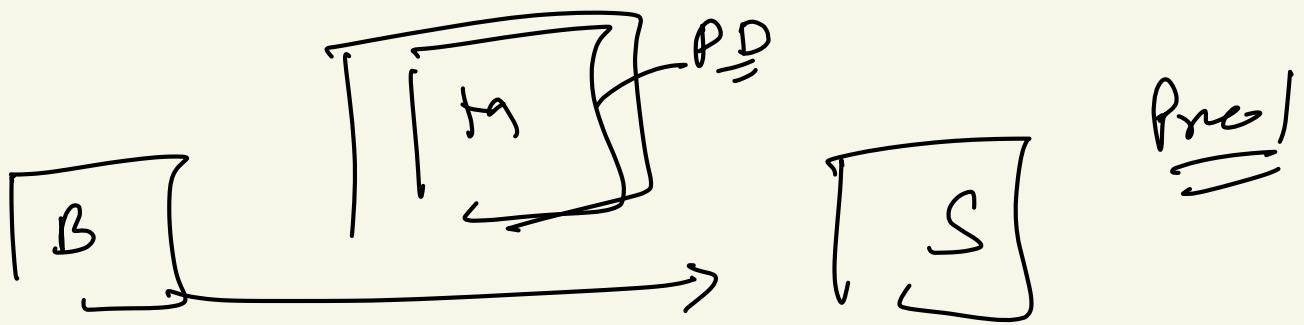
$S_1 \rightarrow S_{99}$

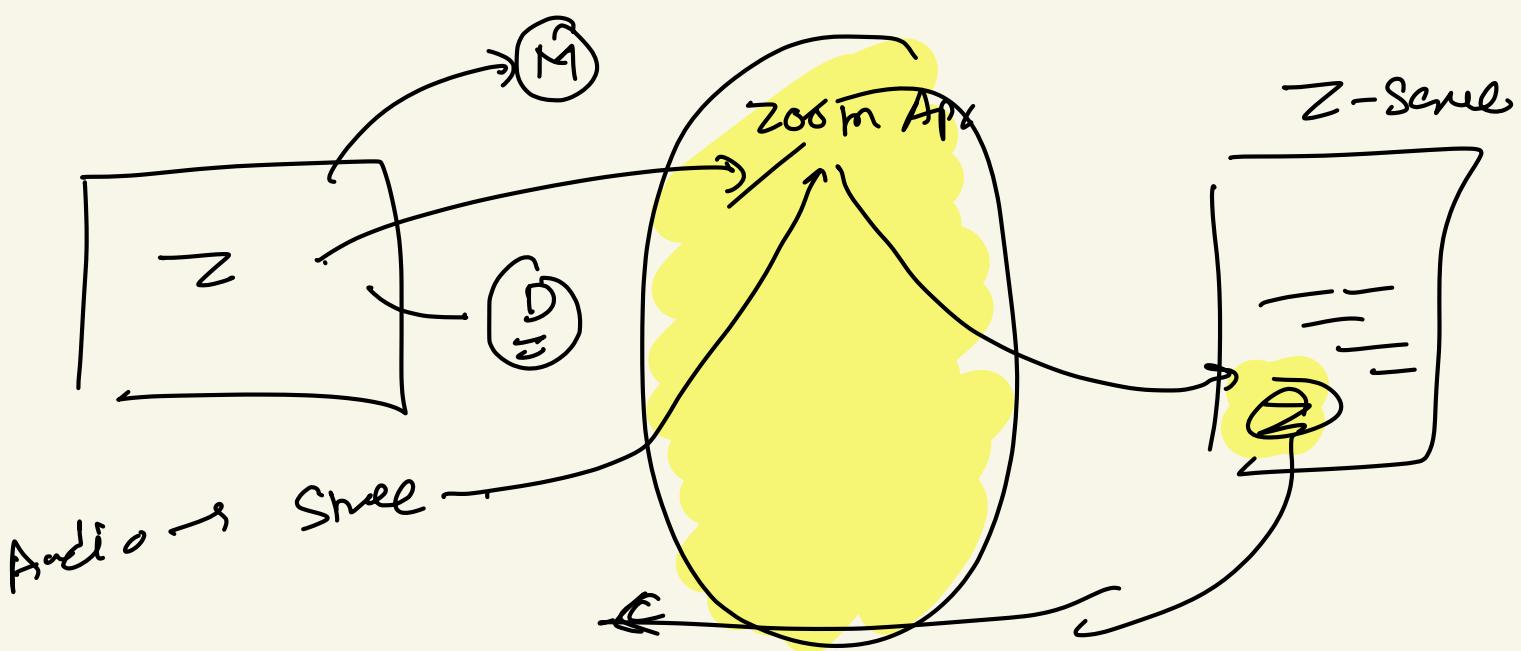
API → Application prog. Interface
= = = = =

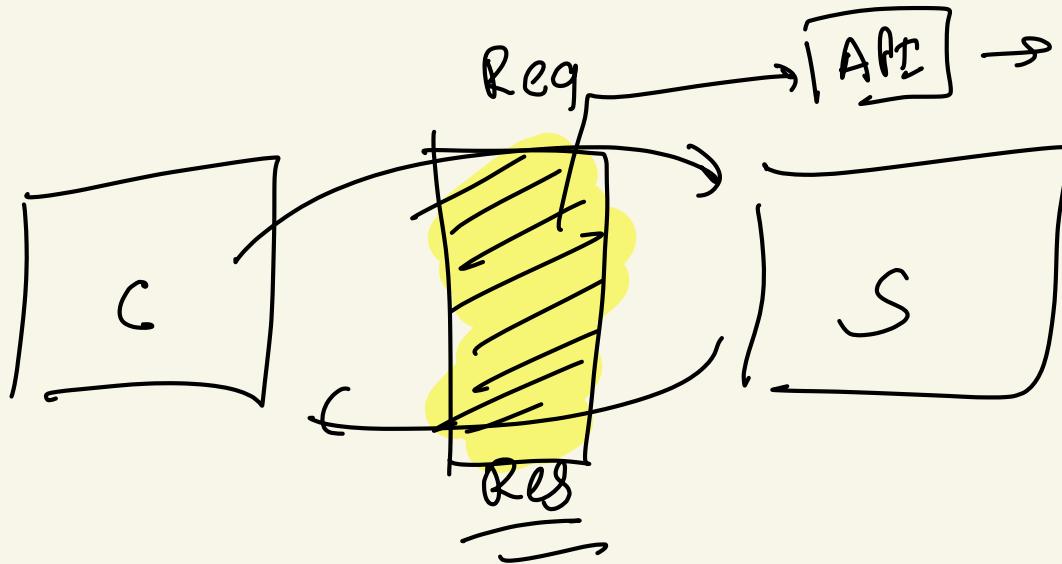










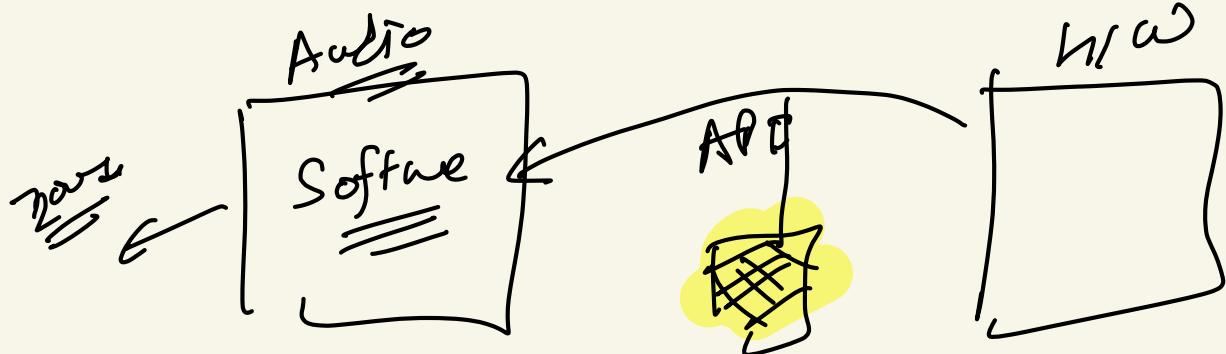


API

Online (with Internet)

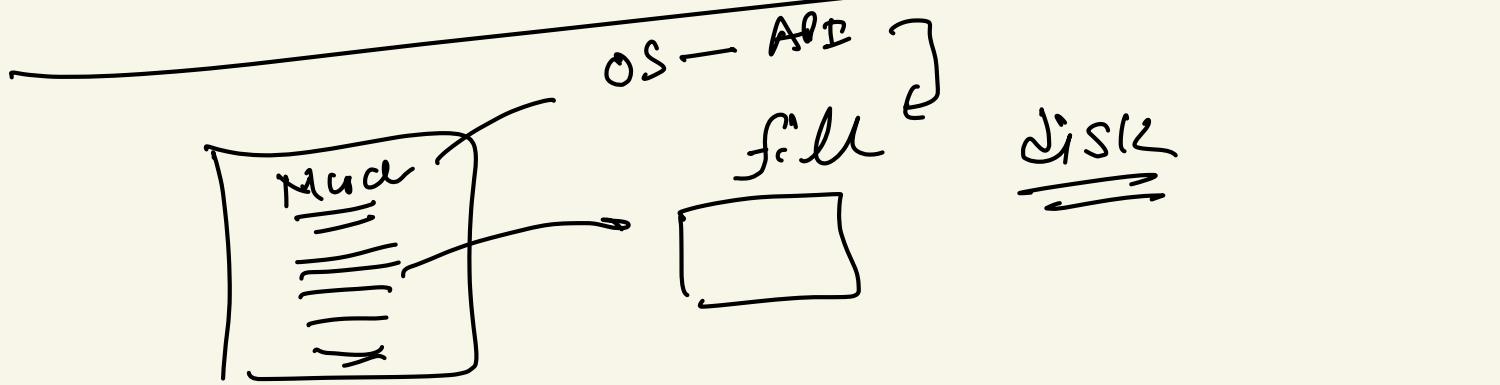
offline

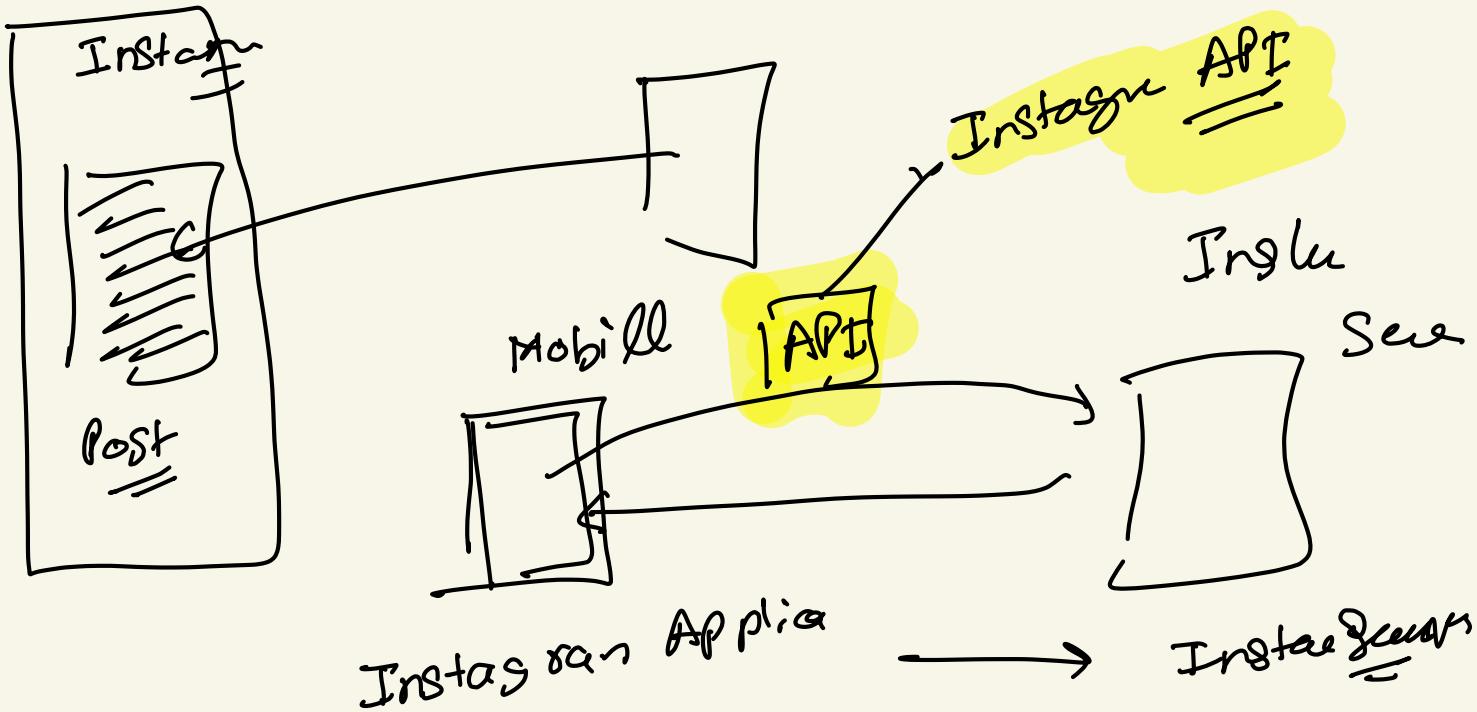
→] (No internet)



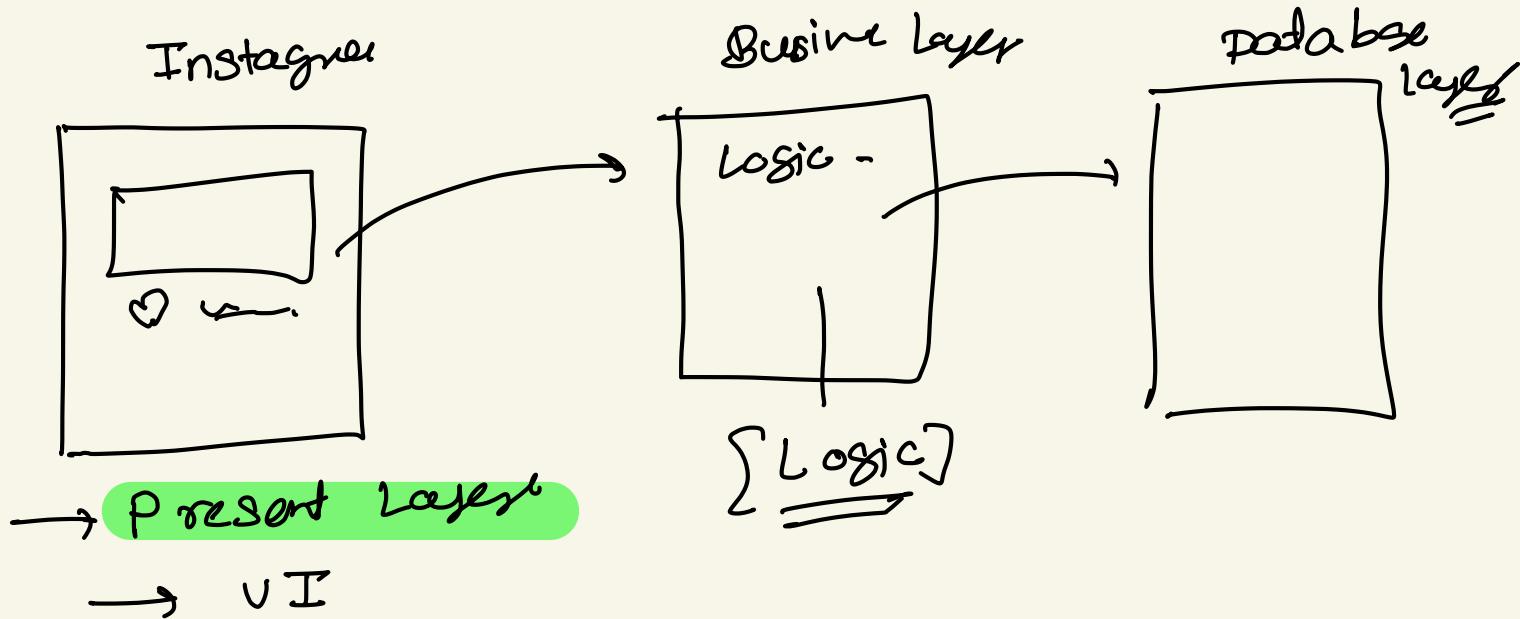
Web Service → API which on Internet

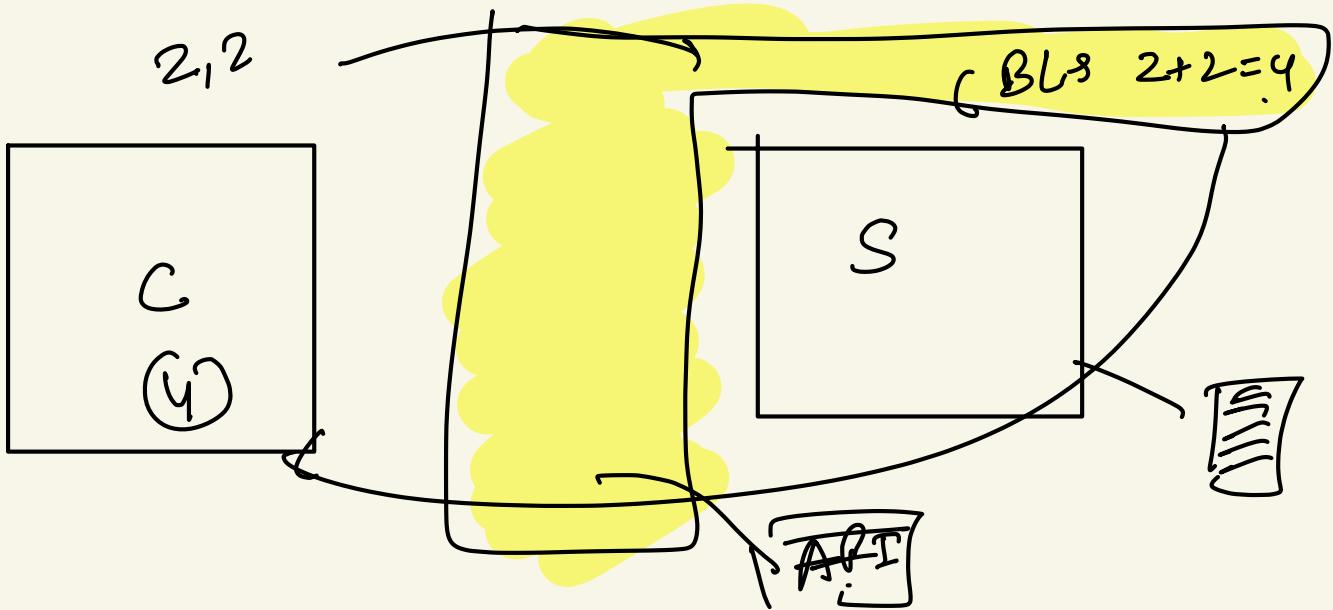
if not → API (not webservice)

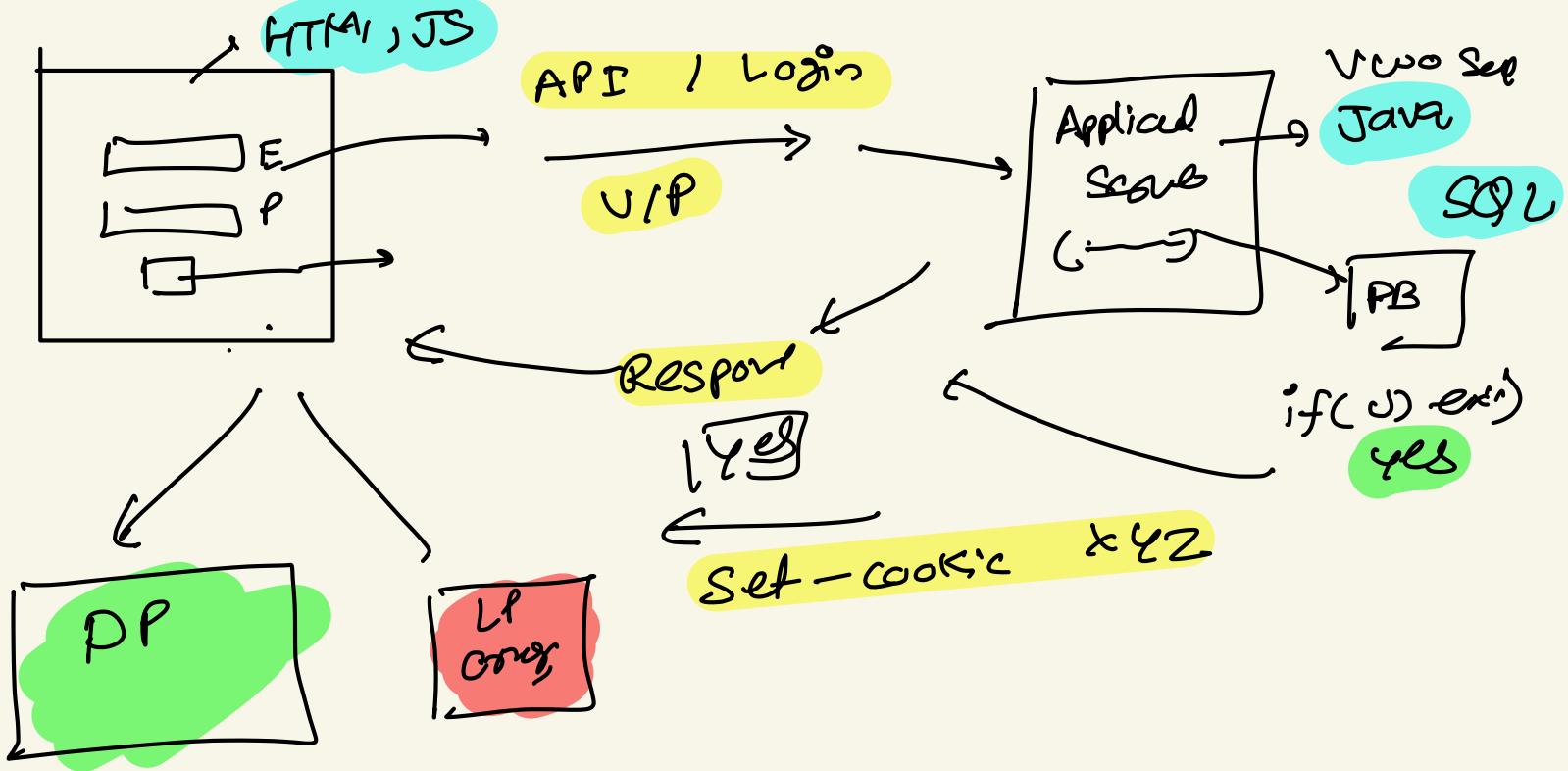


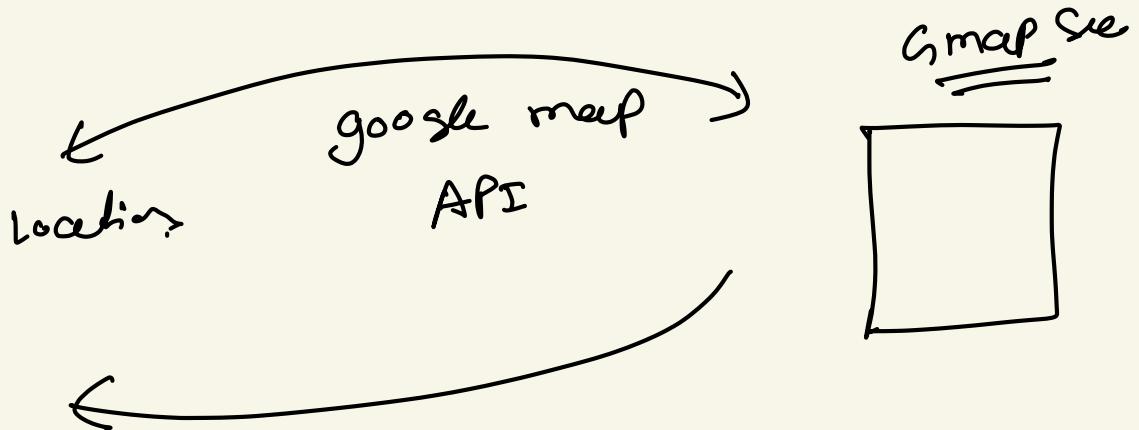
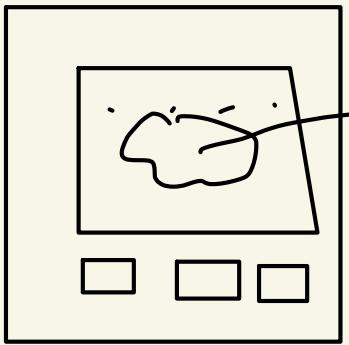


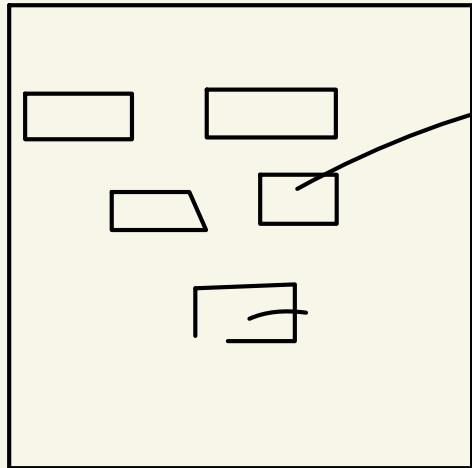
Web application / model (3L) ← CS ←



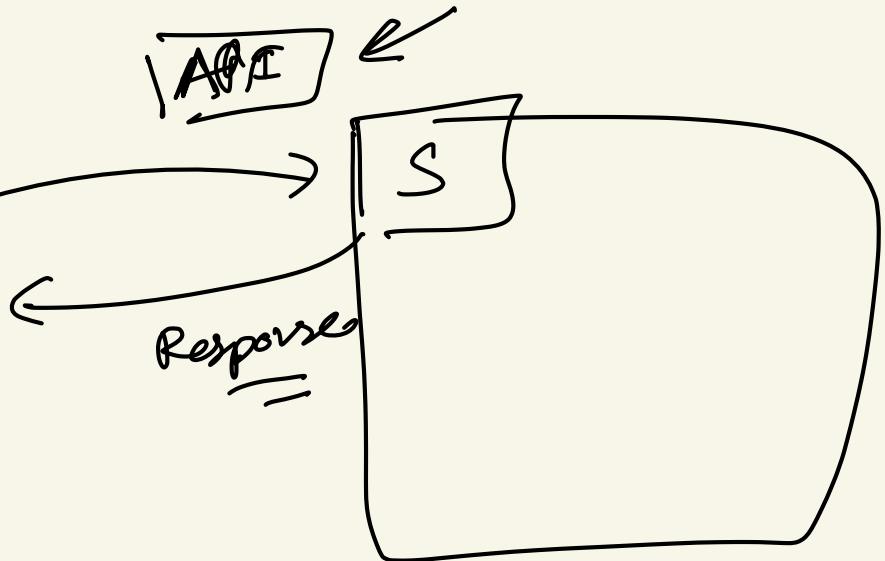


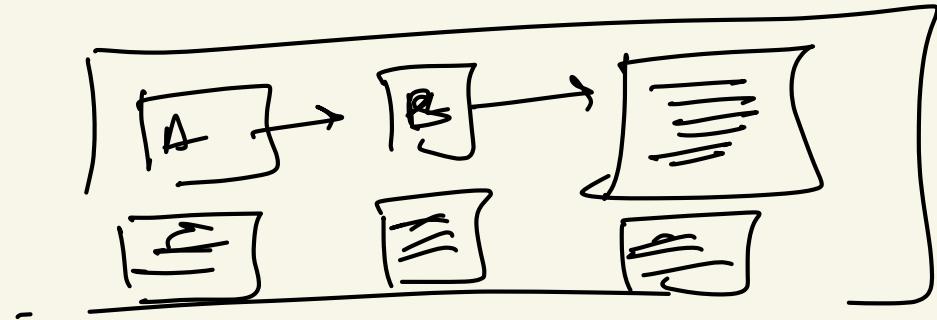
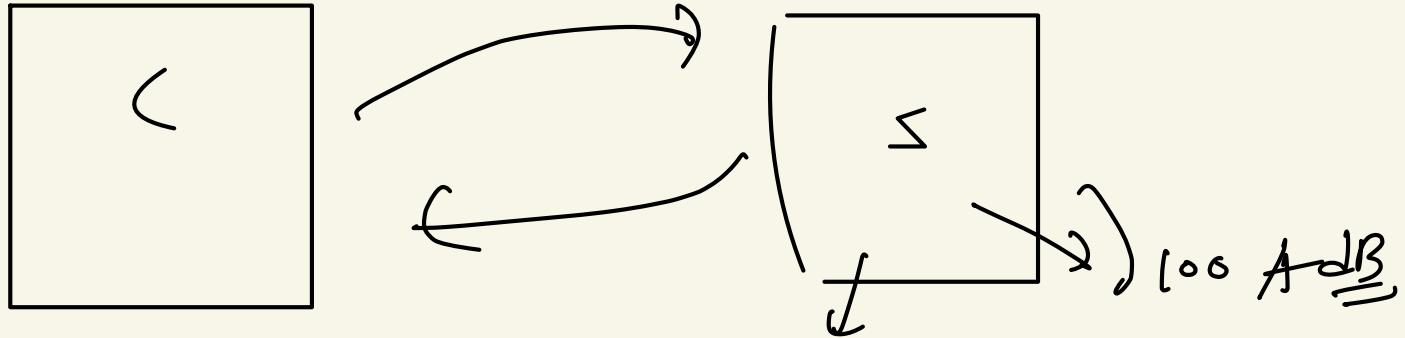


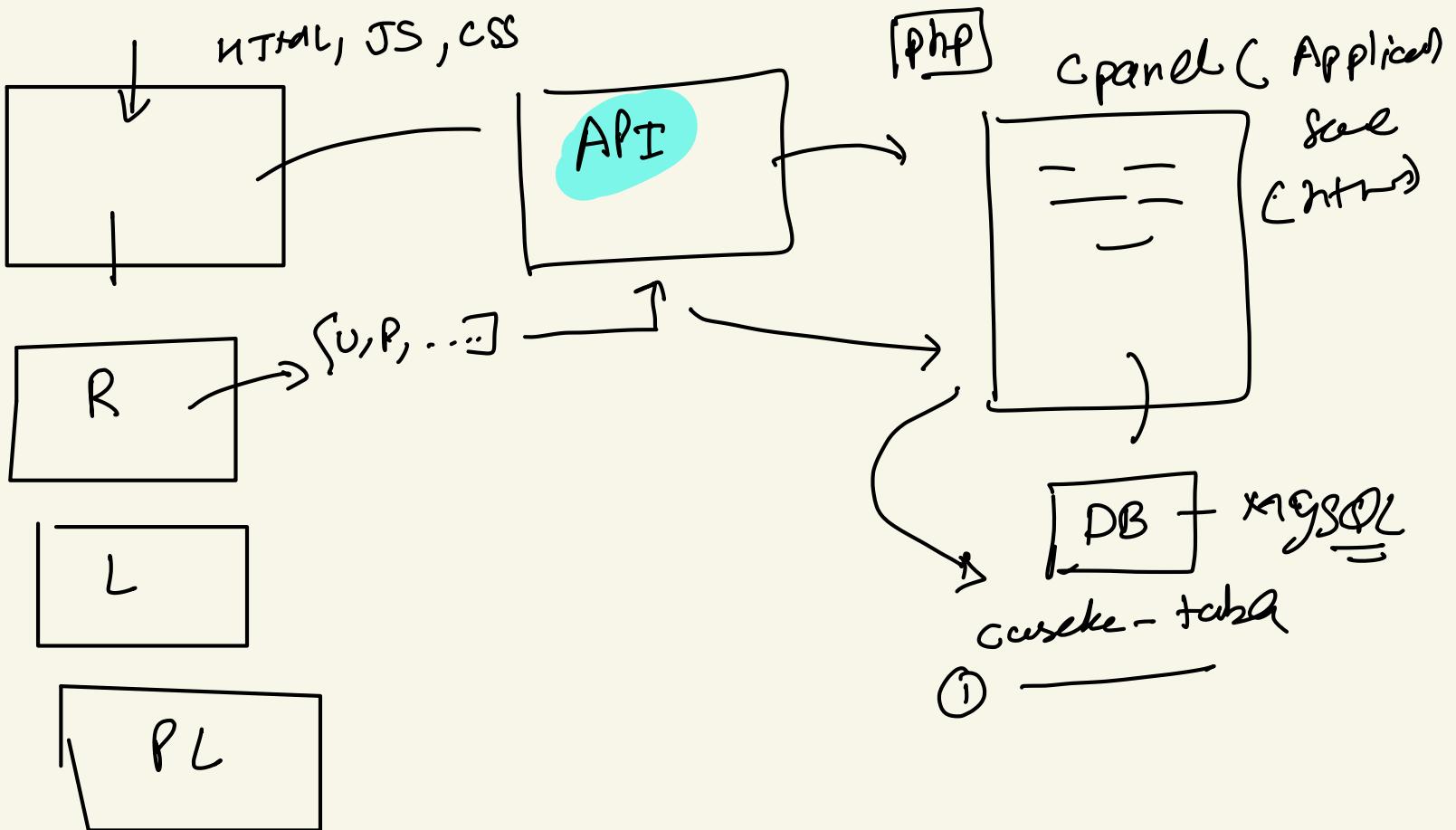


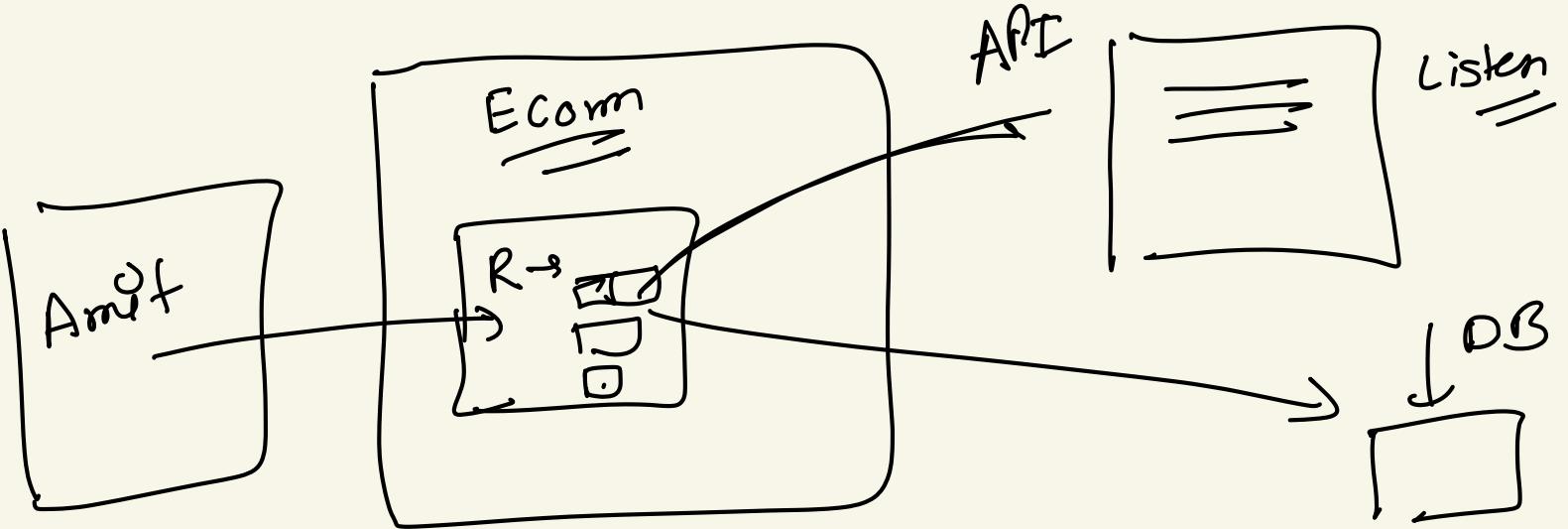


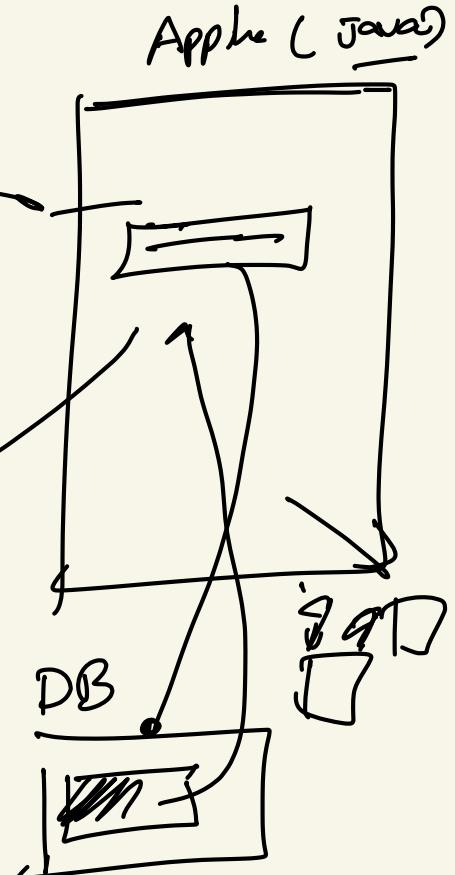
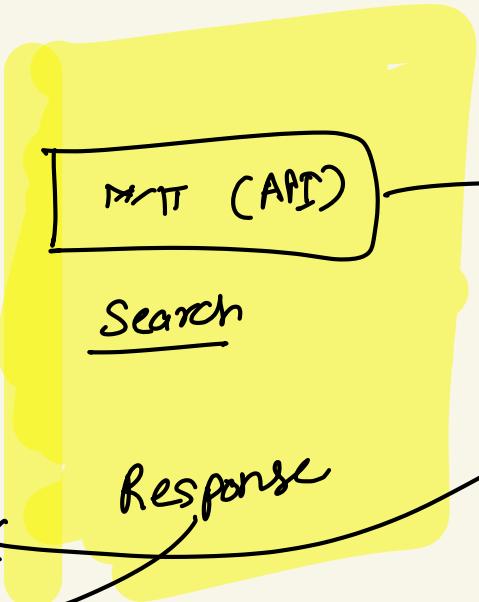
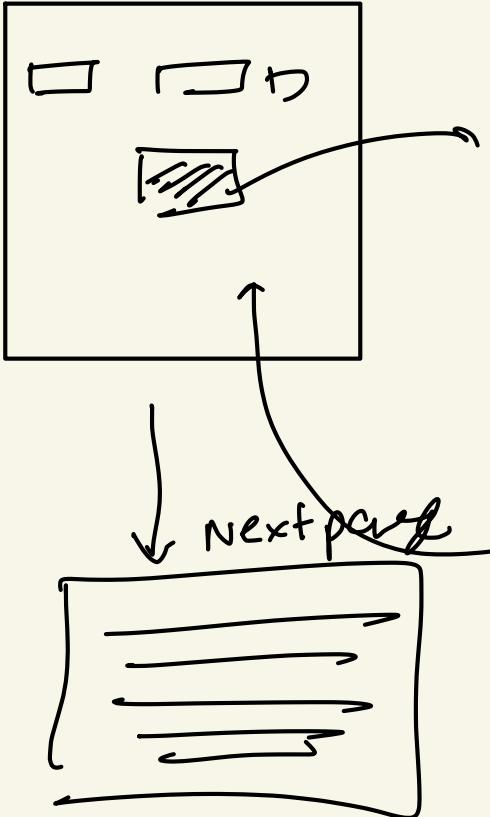
APP



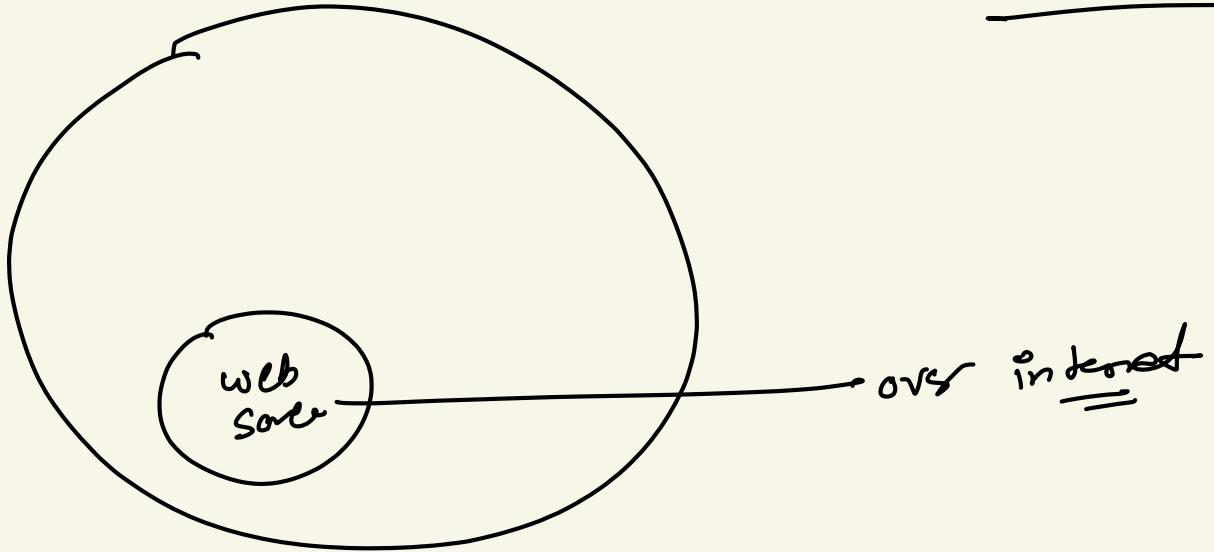


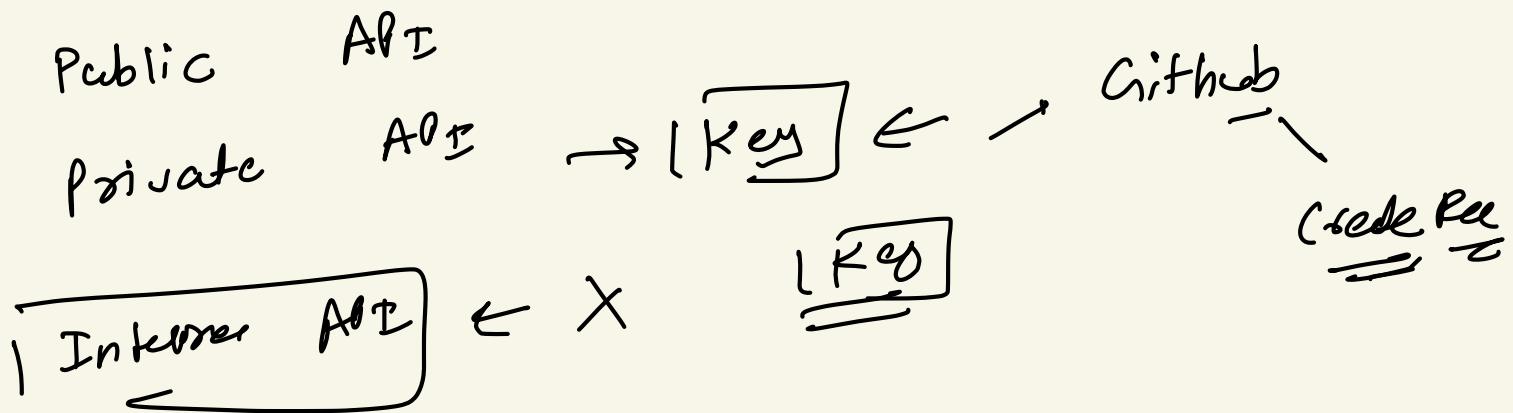


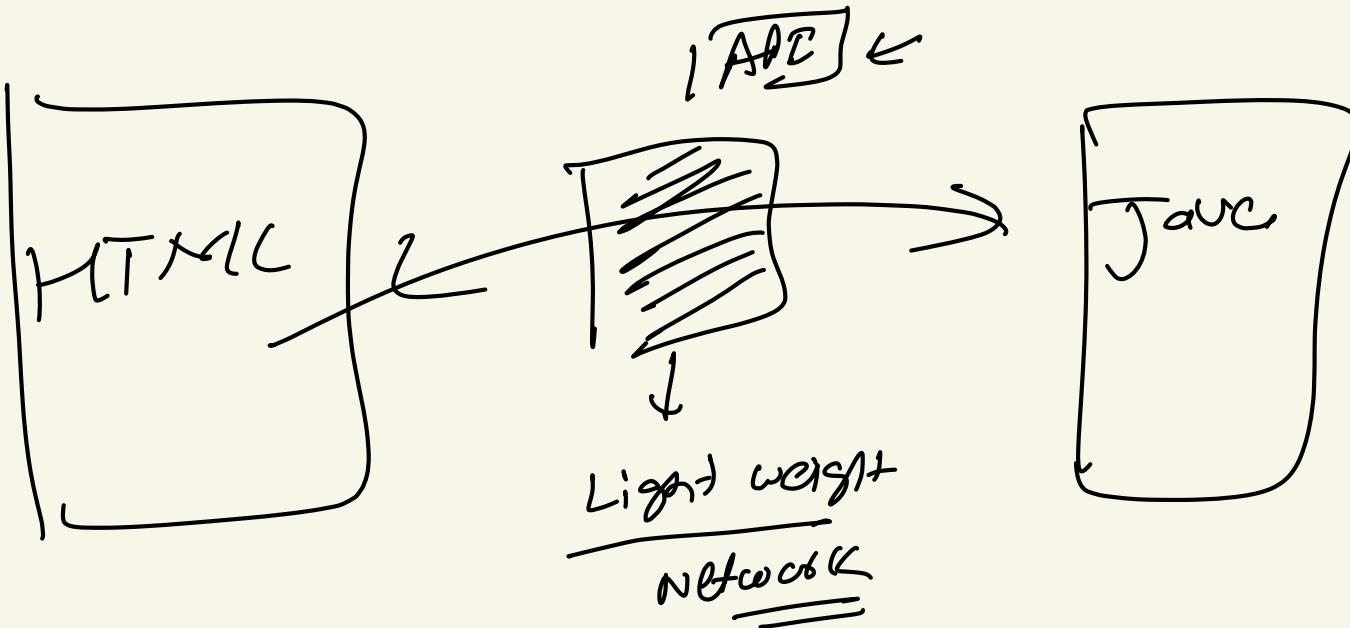


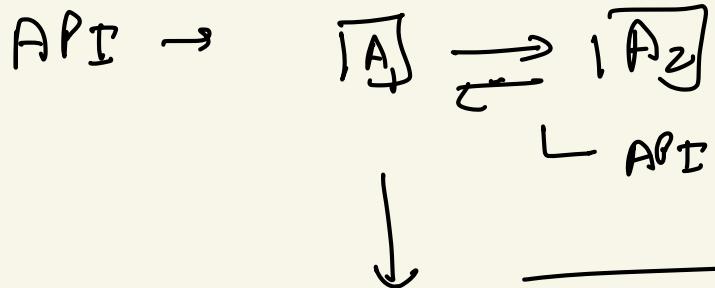


API - API [offline
online] → web Services

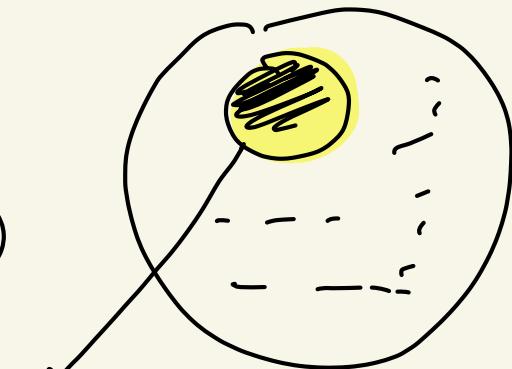
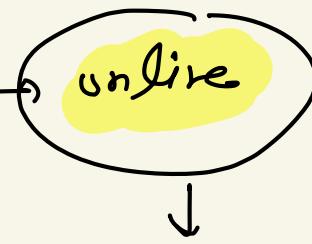
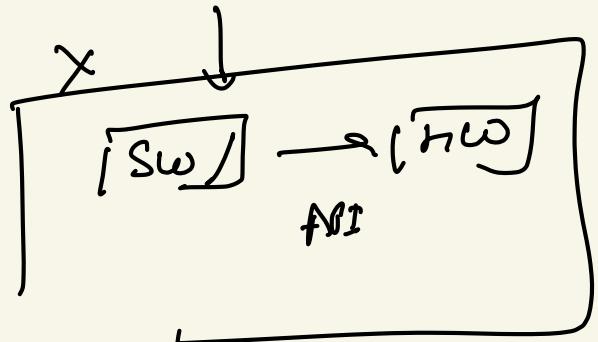








Offire



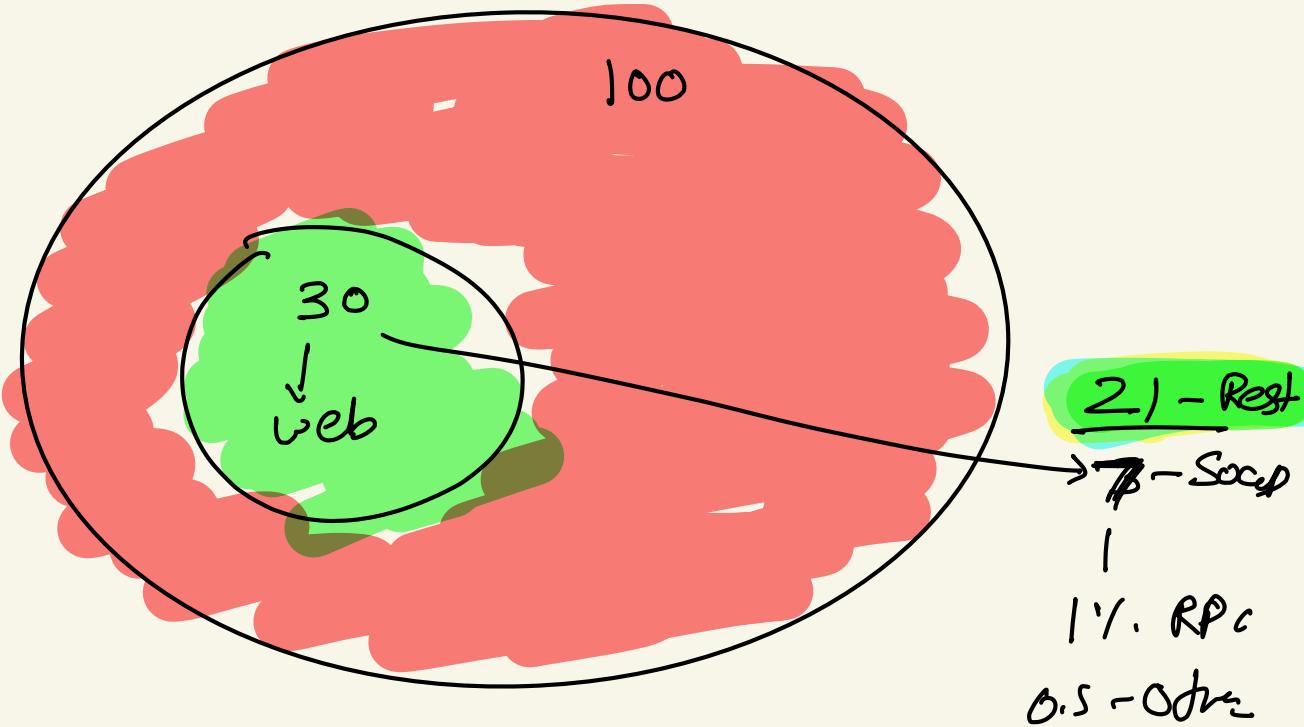
web Service



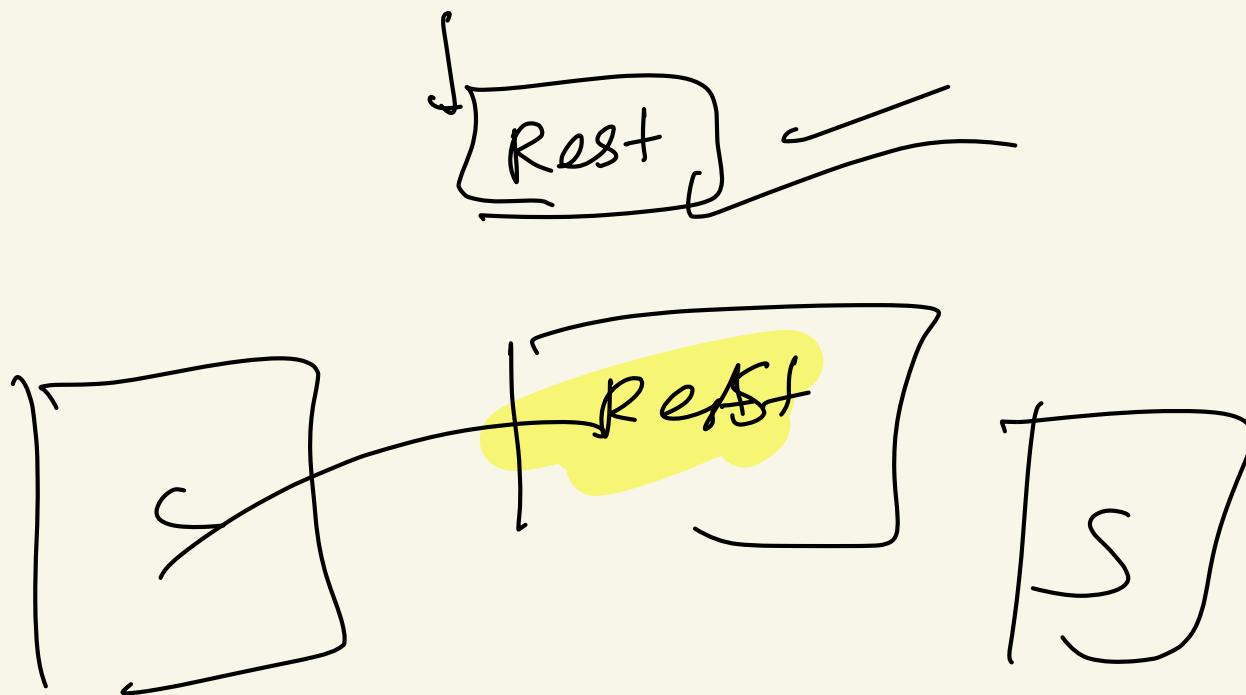
Rest API

SOAP, XMLRPC
70% 10%

... Other

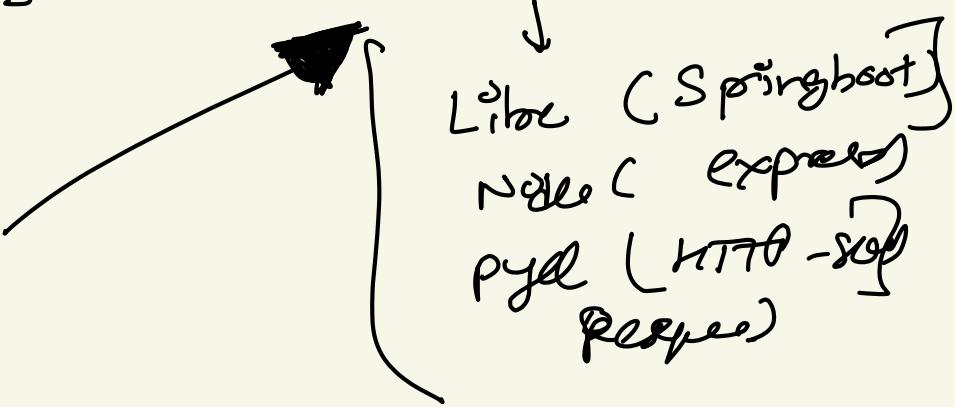


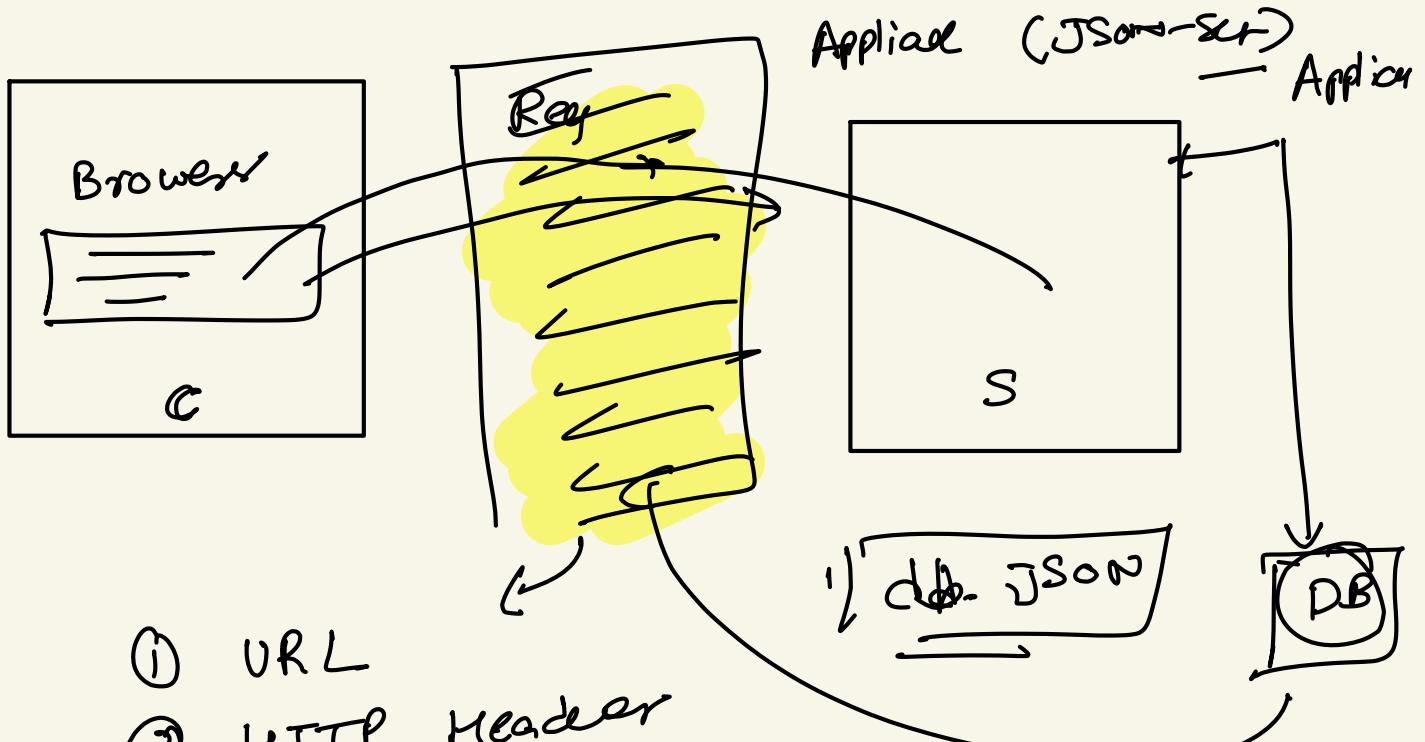
web-applications / mobile [cell]



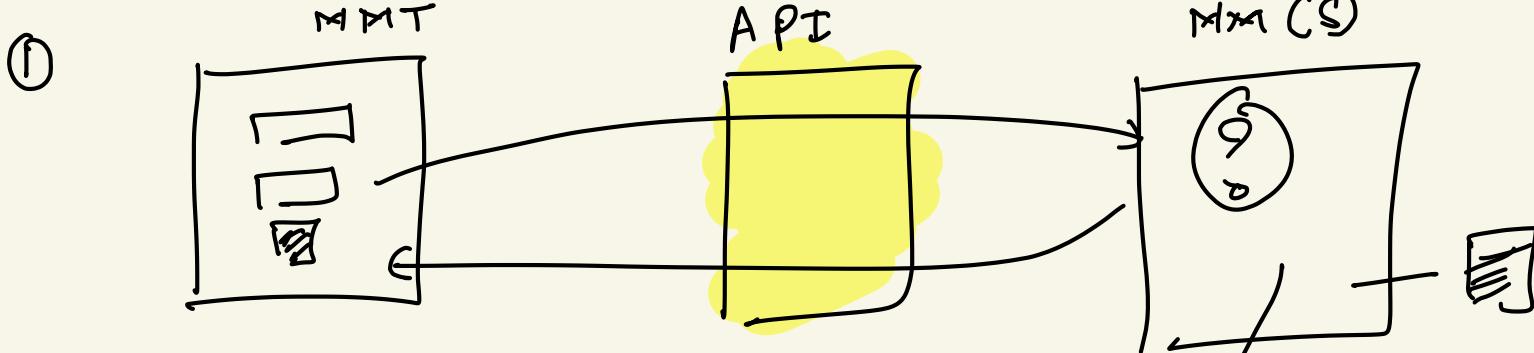
1. API → Rest]
→ SOAP

who API -? (debase)

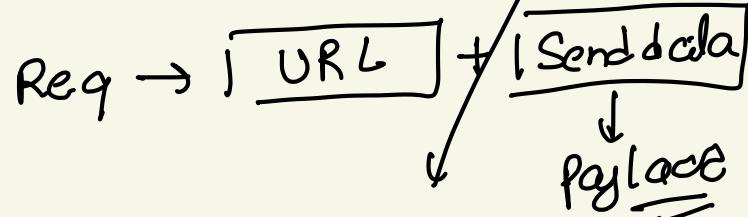




- ① URL
- ② HTTP Header
- ③ Cookie
- ④ Payload



- ① → Search ✓
- ② → Bookings



[*(marketplace) search*]
 → Del-BY
10 May - 2023]

TC →

STLC → IP ✓

① → DE-Ba → ① - (Not zero)

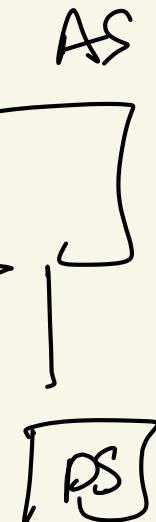
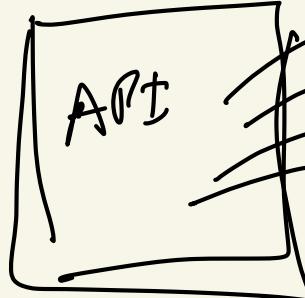
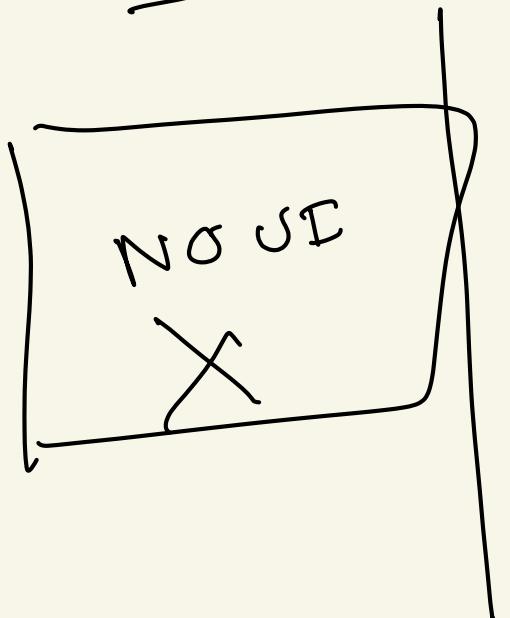
② → date 2027 → ② (Invalid) →

③ → [Valid / Invalid]

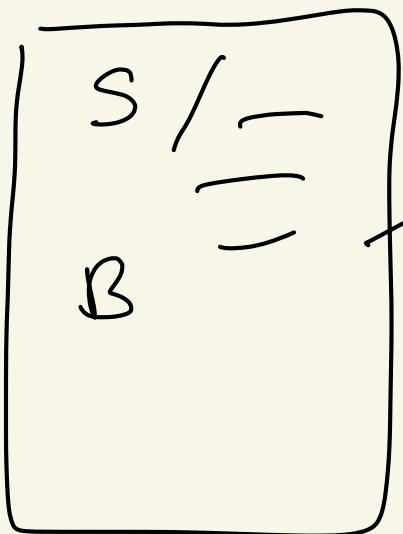
SDLC →

M+T

✓
S → B ✓

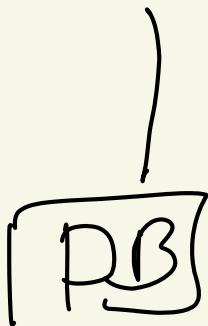
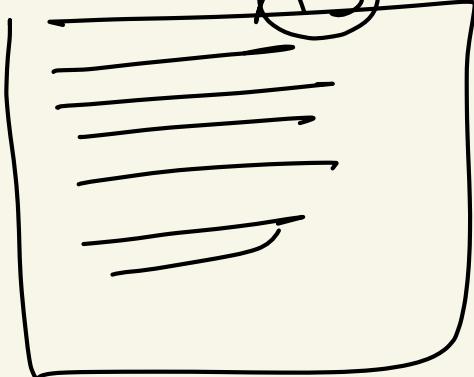


API



SOL/Backend

AS

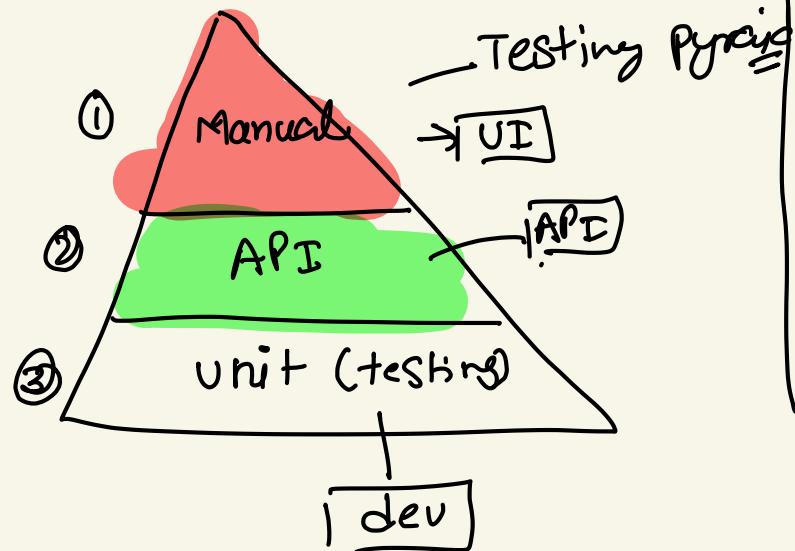


PL

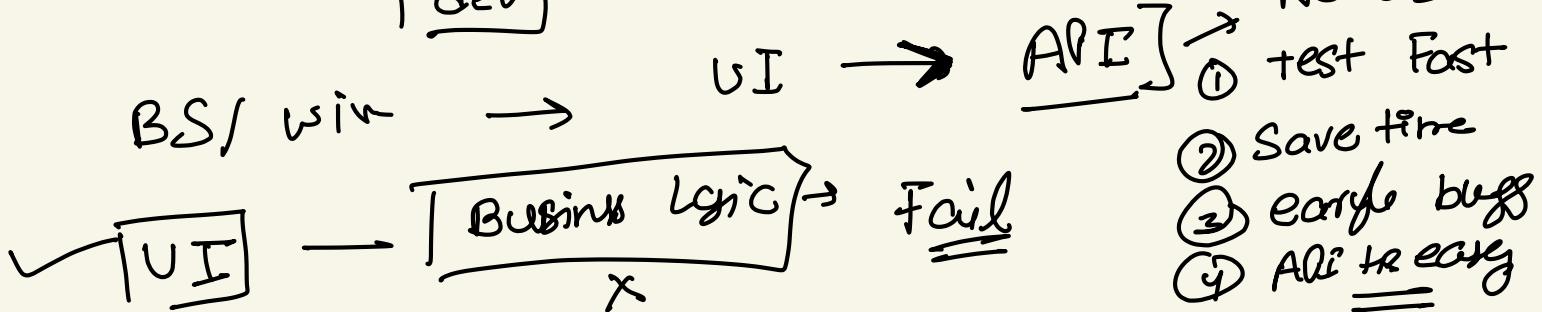
BL

DL

Restful Books

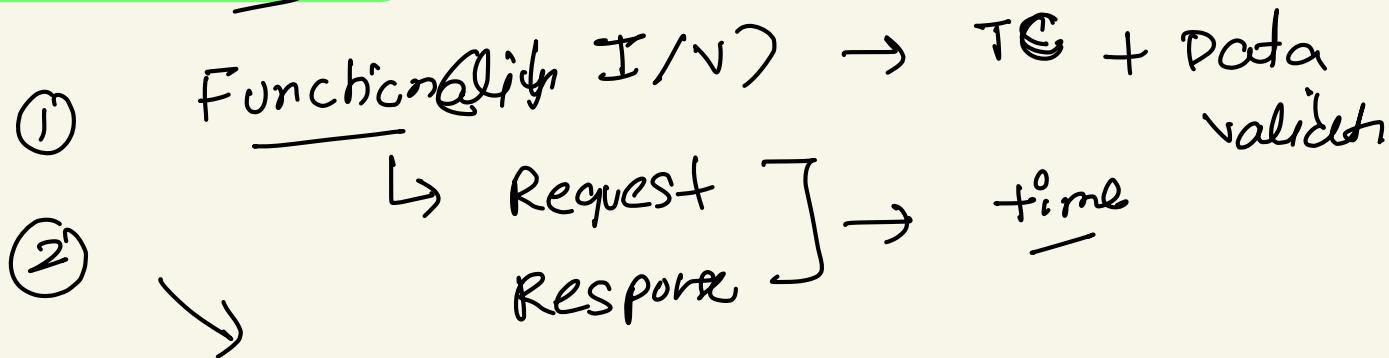


- [
- ① API → middle (Fun/R)
 - = $A_1 \rightarrow A_2$
 - ② why API
 - ③ what test? ↓
 - ④ Rest / Socap?
-]



what to test ?

Q3 ←



Non - F → Performance ($\frac{1000}{s}$)

③ Error - handling → 404

④ Security → 1 VIP
2 VIP] → UX ↗

API - Manual → Automation ←

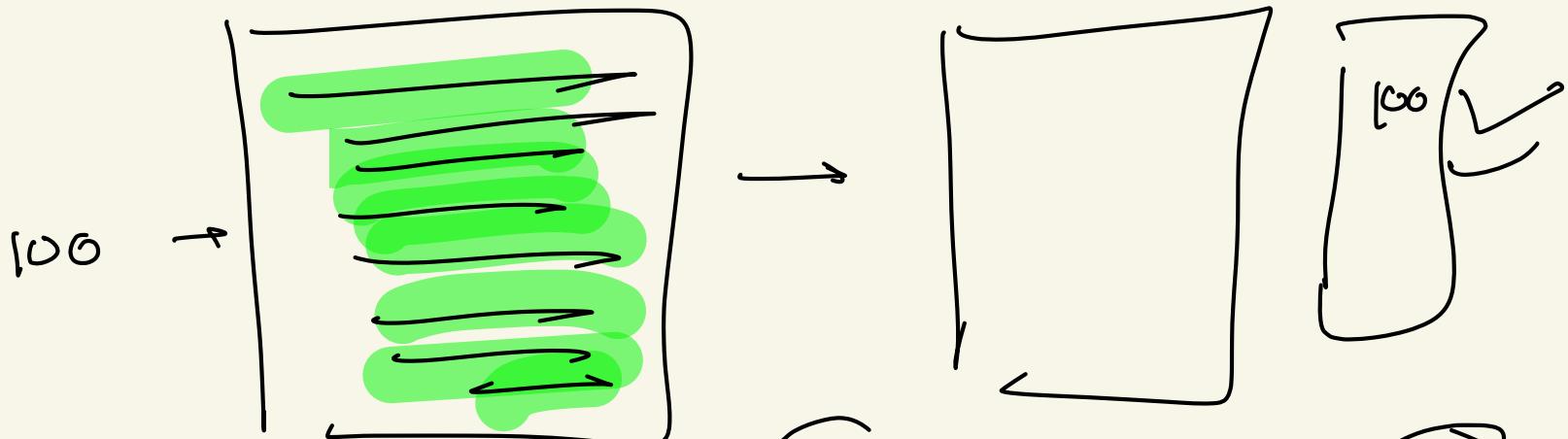
- STLC →
- ① - Req-Analyse
 - ② Test plan → 100 →
 - ③ Test case → Postman
 - ④ Execute
 - ⑤ Bugs → Fix
 - ⑥ Test Closed

$$\text{New} \rightarrow \underline{\text{20 TG}} = 120 \quad (\text{100% Not})$$

Automated

Test → Inna \checkmark

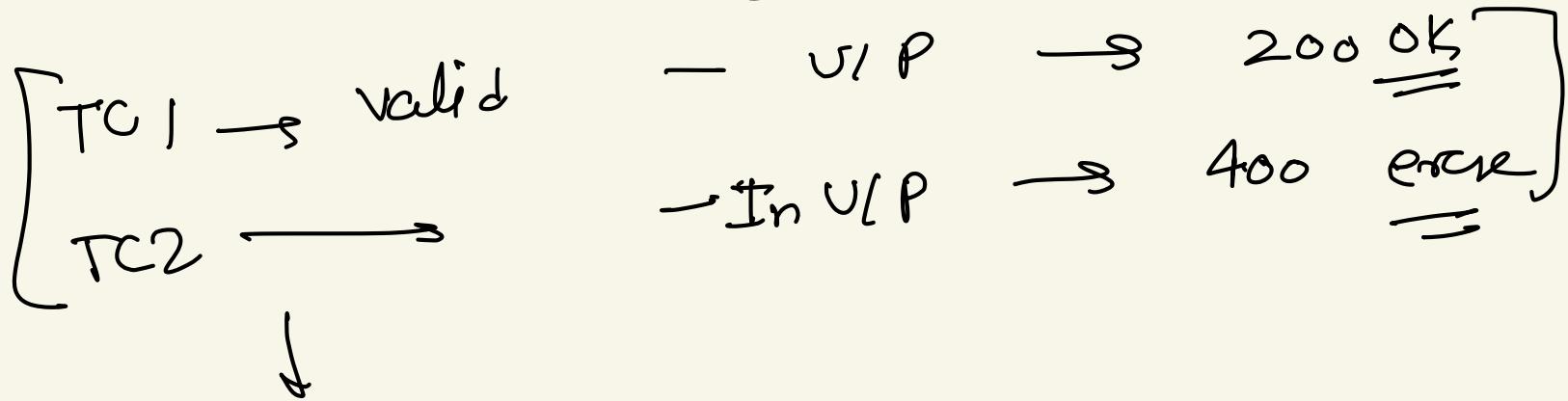
Jenkins → QA



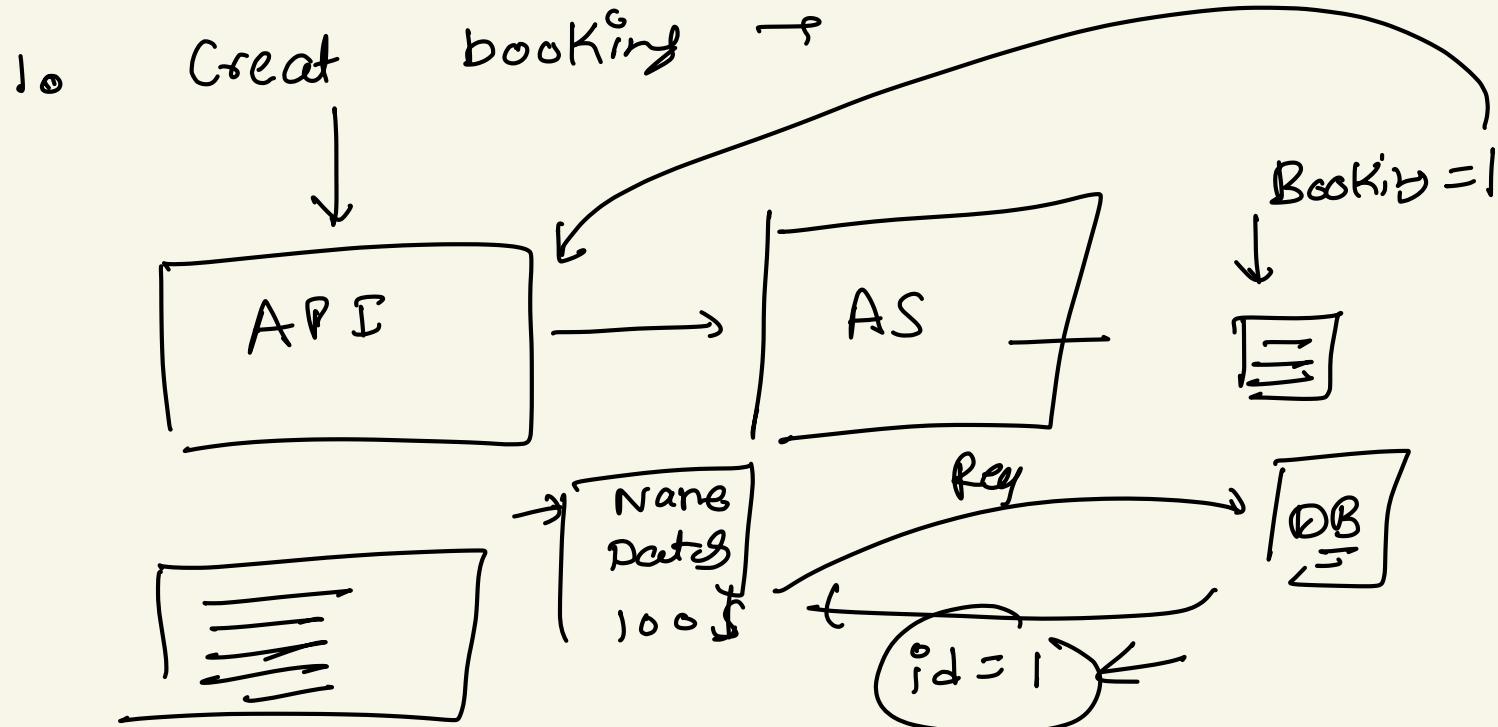
REST-ASSURE + JAVA

Login → U/P — Login

Ex



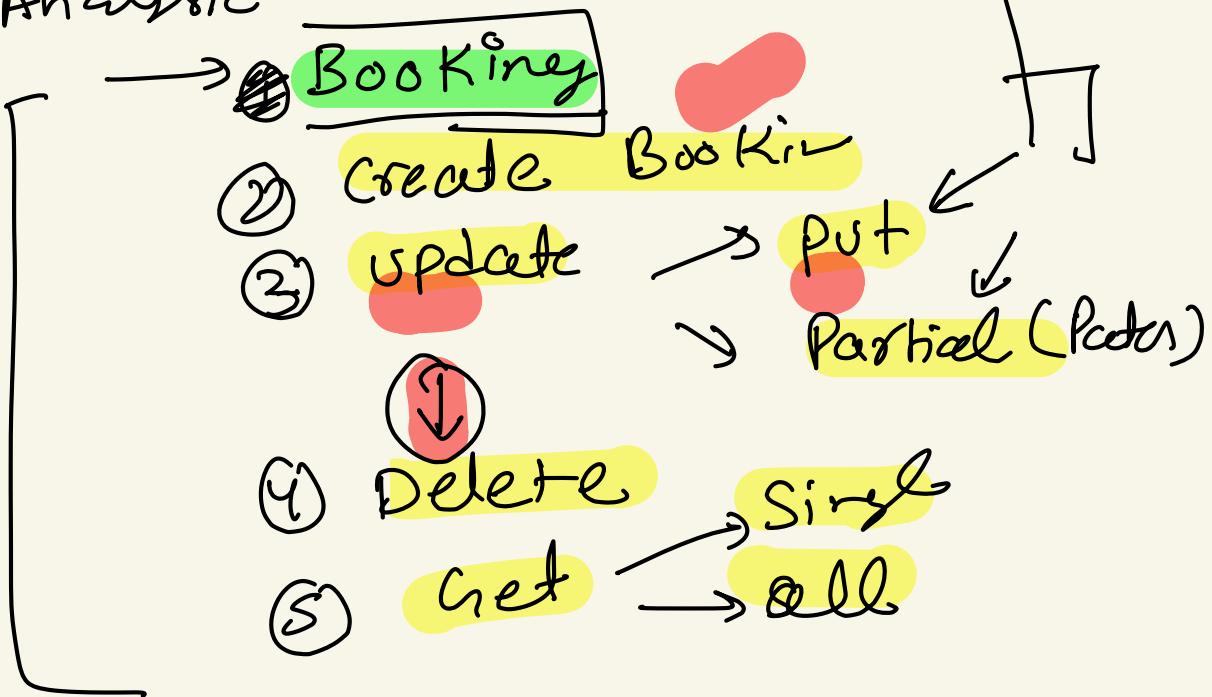
Restful Booker → API (NO UI) → UI ←

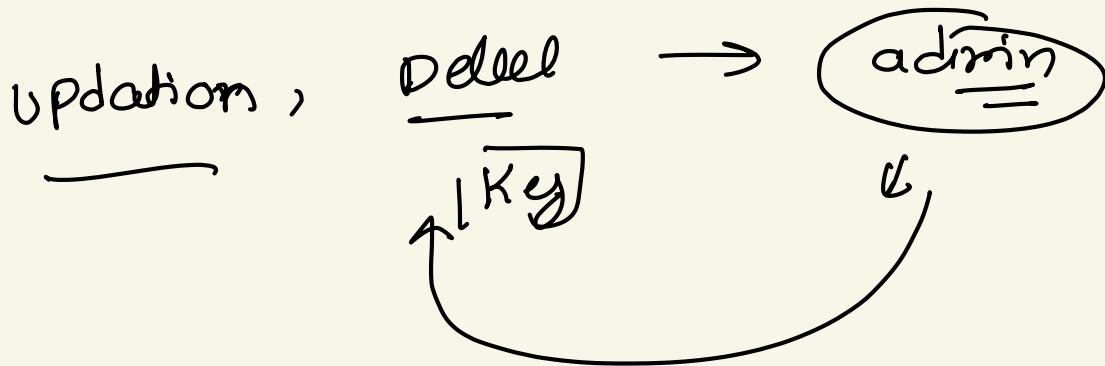


Project #①

① Req -

Analytic

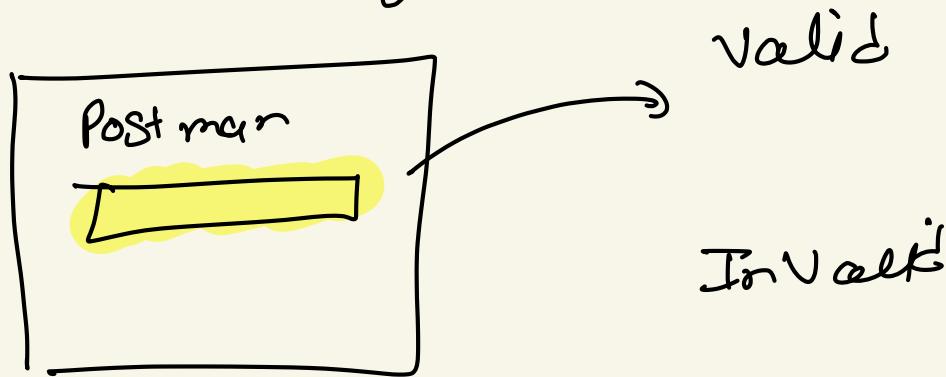




REST API → HTTP METHODS →

- ① create Booking → POST
;
- ② delete → delete + Achb | 
;
- ③ upd ation → Partial (Patch) + Achb →
Full (Put)
- ④ Get a Bookin →
 → Single → $\{ \} = id$
 → all → $id = x$
 → GET

1. Create Booking →



→ → URL + Payload + headers

app. vwo.com]

channel [] ←

TC 1
TC 2
TC 3
TC 4
⋮

	V - ψ	V - ϕ
TC 2	I ψ - V	I ν - ϕ
TC 3	I ν - U	V - ϕ
TC 4	I ϕ - VD	I ν -
⋮	—	—
	all	—

REST

==

SOAP

==

Postman ✓

SOAP UI ✓ ✓

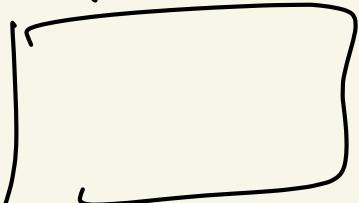
PO ST man



✓ 4:00 am



Run Jars



Post

Putn

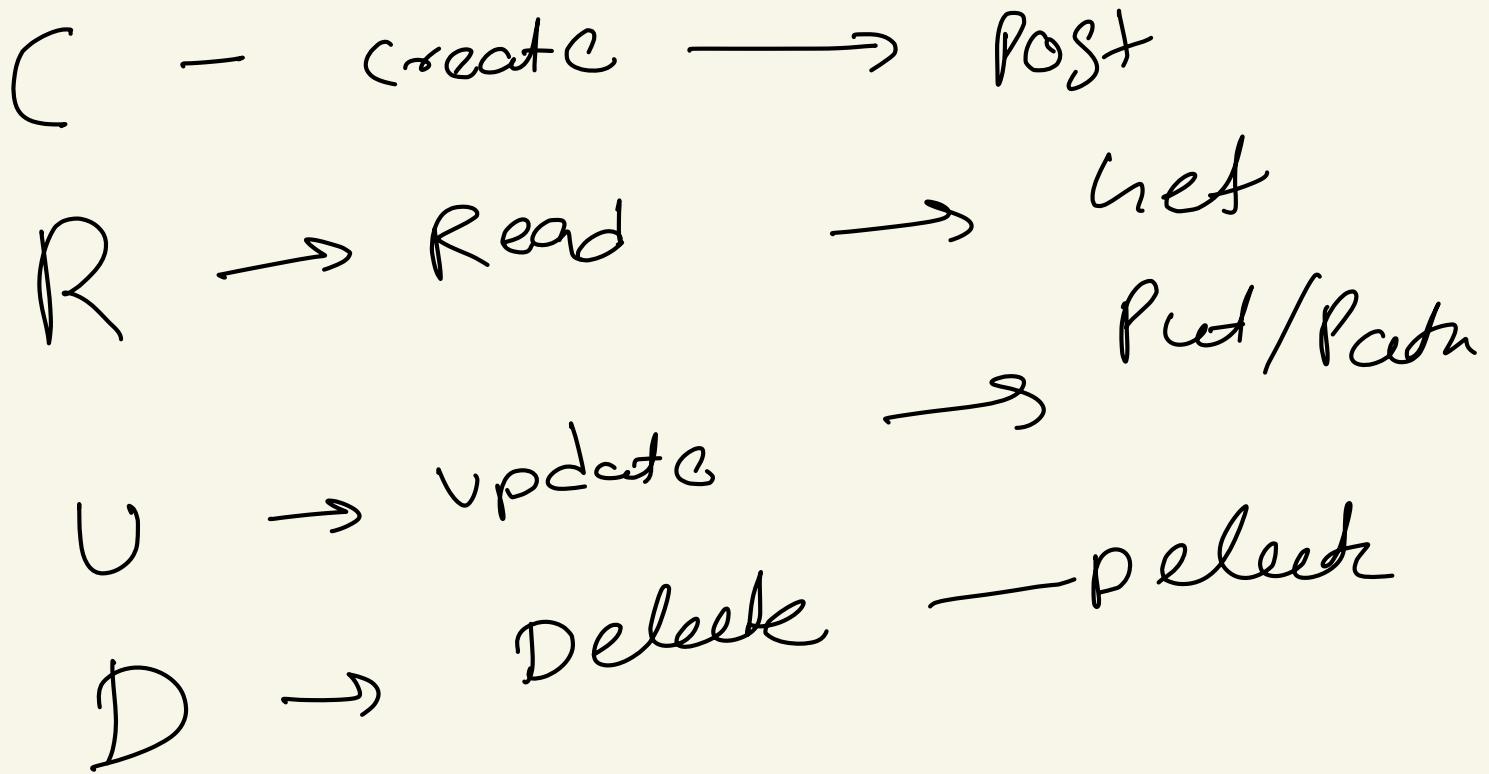
Put

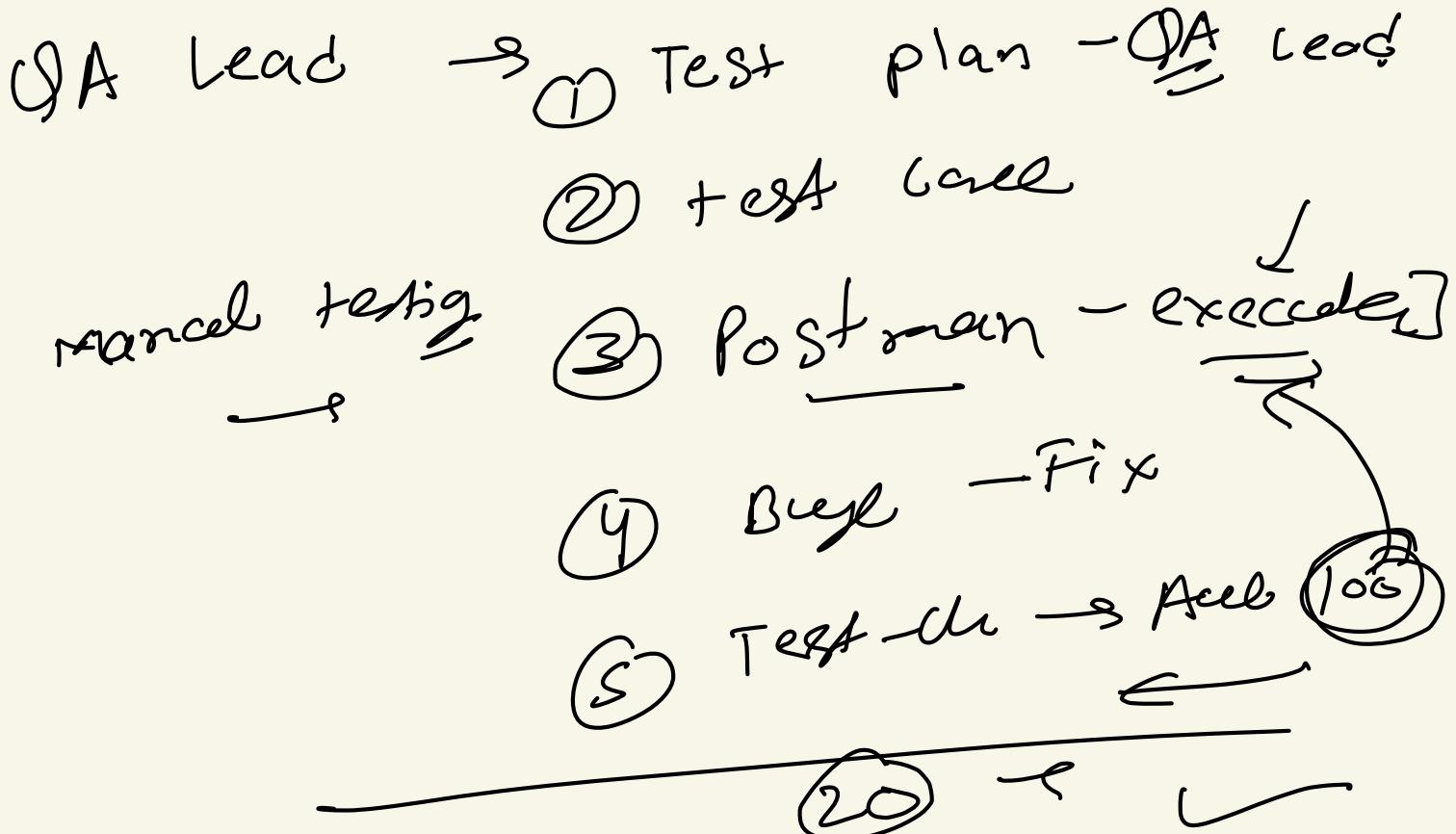
Deel

Cret

+ API
+ test

scripts → J

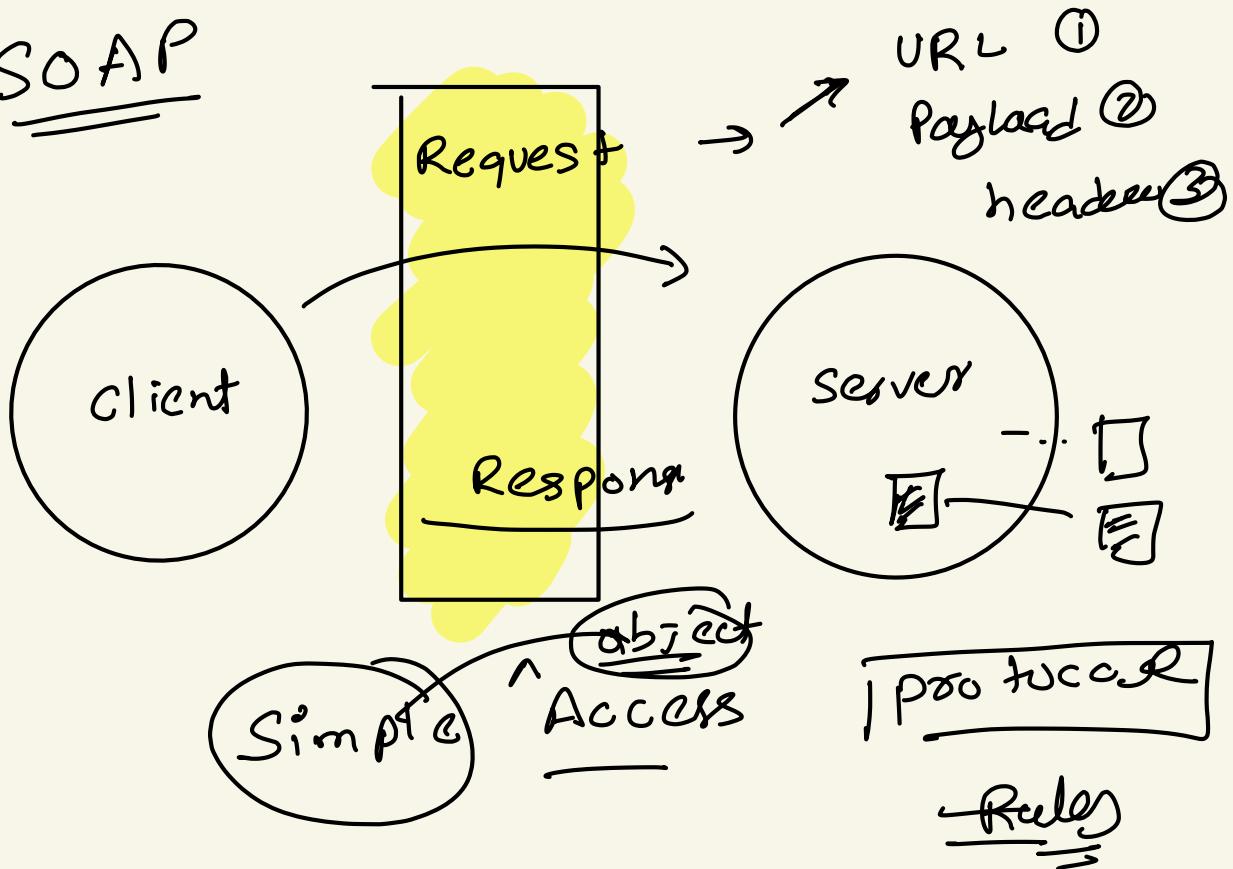


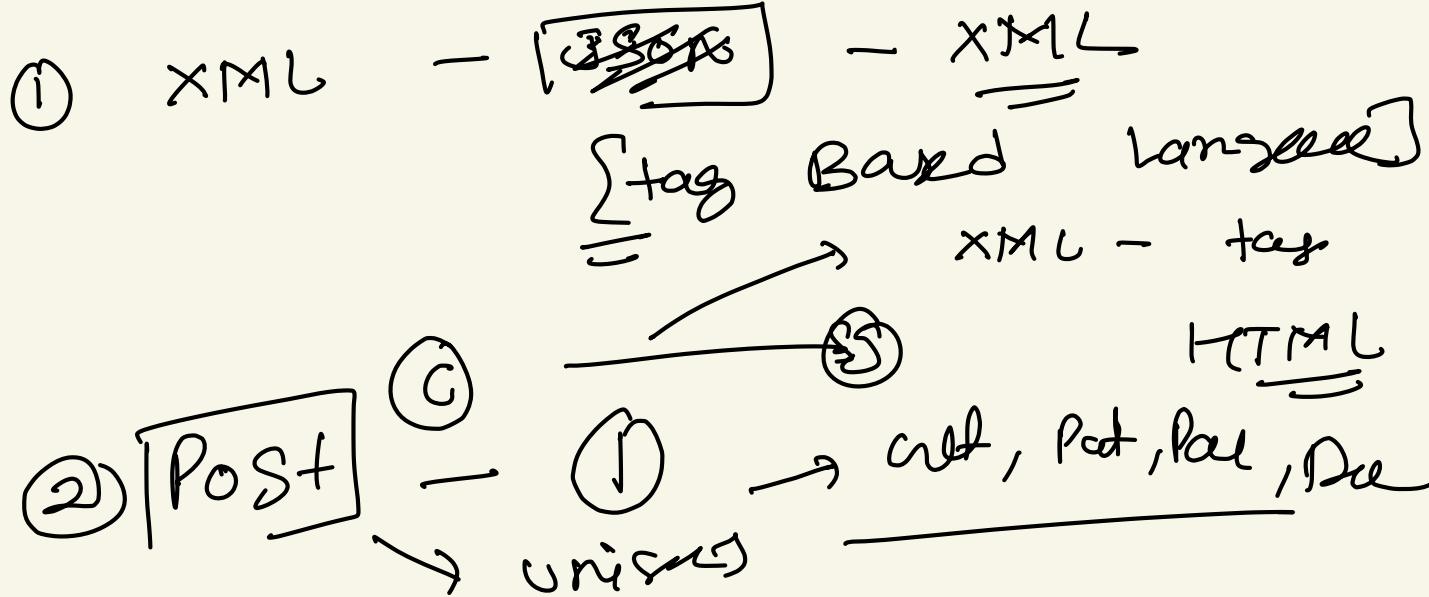
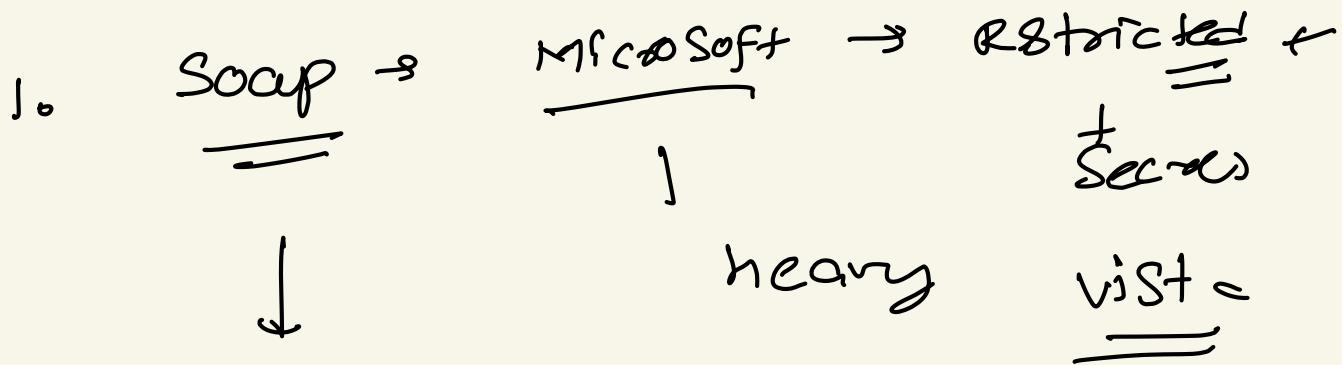


API Testing → MAT
→ AT → Scripting

RFST / SOAP / XM1. RPC

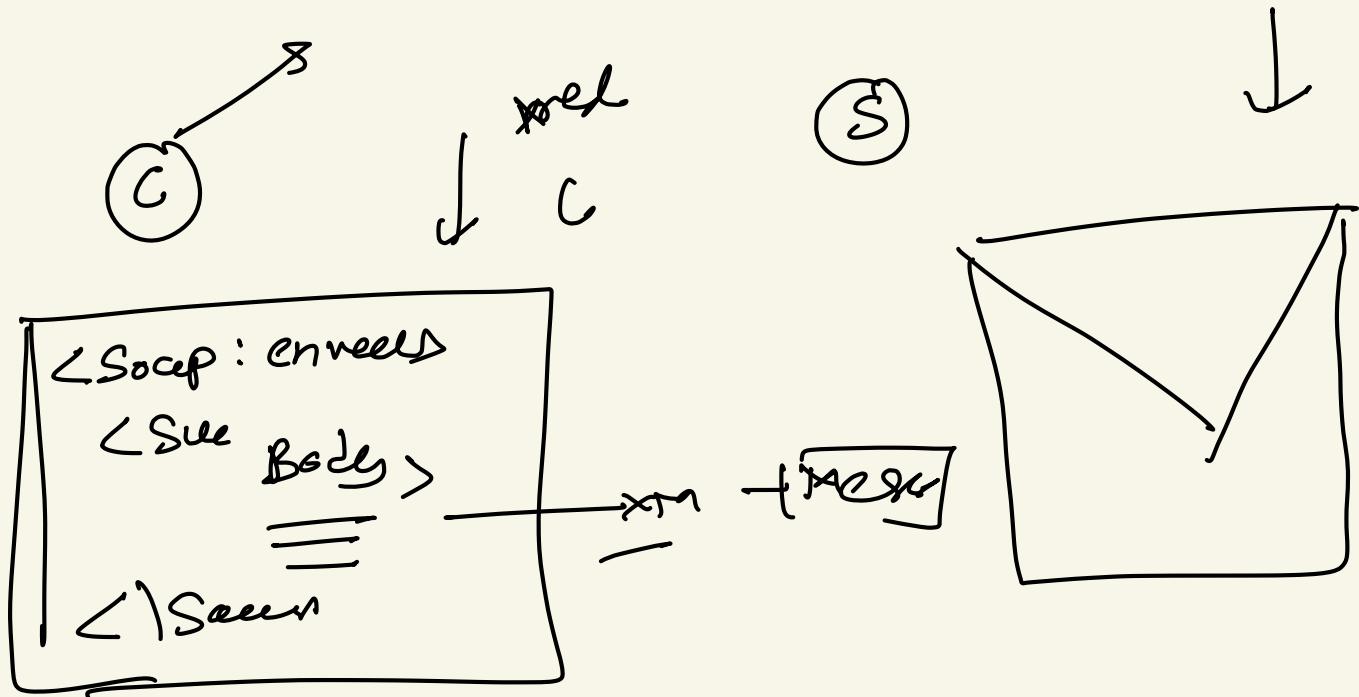
→ SOAP

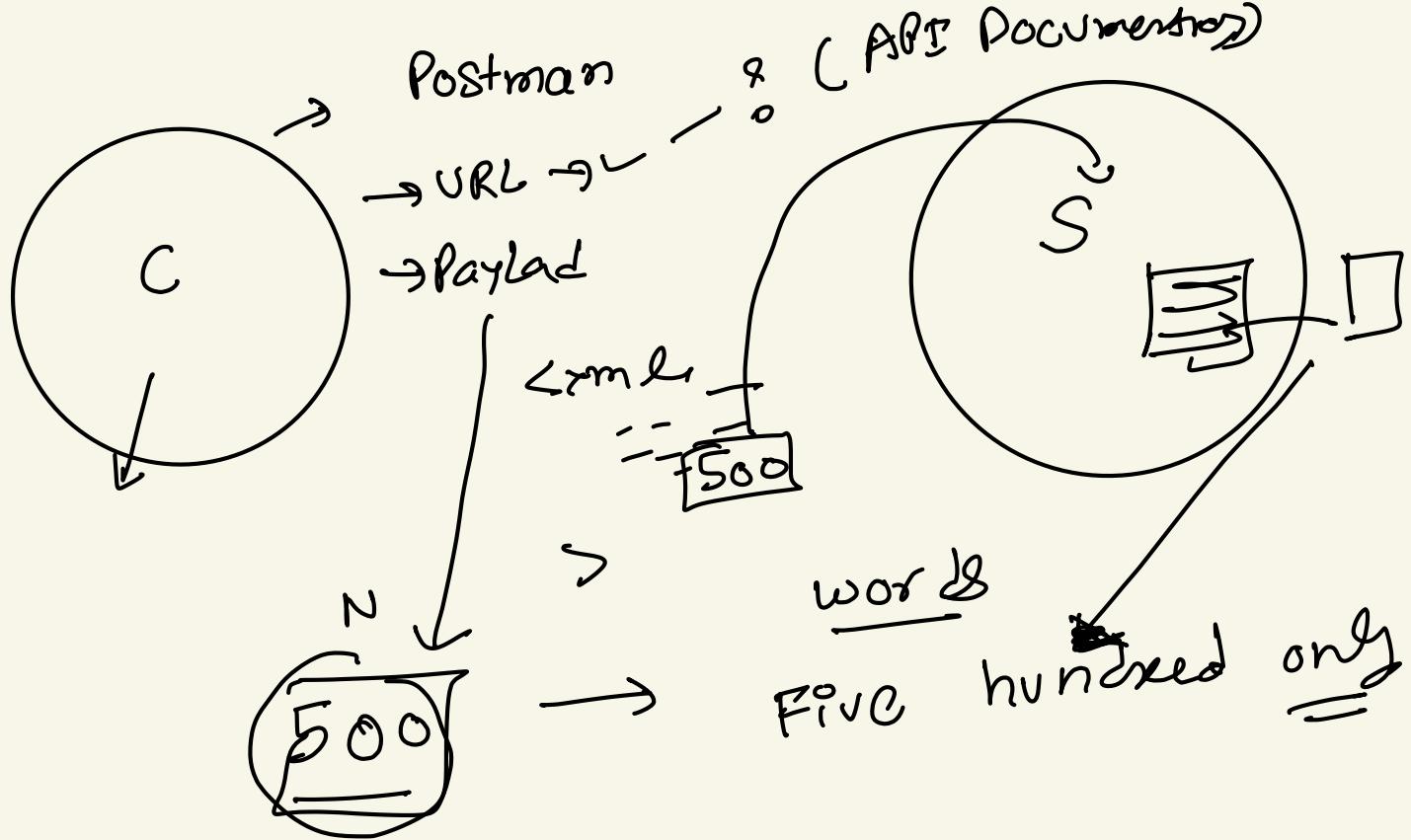




XAL [→ name = Param]
<? xml 1:0 >
< name >
Param
<? name?>
(xml)

WSDL → XML





① 500

-)

② Blank

④ www URL

⑤ without header

⑥ → @

⑦ 123 abc
\$ Font, ↴

$$\boxed{ER = AR}$$

⑧ → woes XML

⑨ → Screen (HTA)

⑩ → 100 - 1

⑪ → 100,00

⑫ → (100,0)

⑬ → , Ag