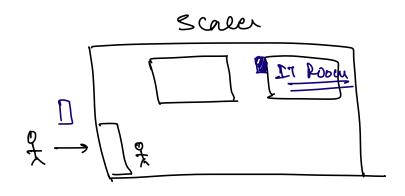
Agenda.
-> Authentication
-> Authorization
-> RBAC (Role based access control)
-> How Authentication flow mores. (tokens)
=> hohat is Authentication?
Scaler compacademy =
Fragoure can access mithout telling who they are.
Scaler. com/meetings/
=> To acces this page me need some kind et permission
=> leetcode com problems => No need to tell who me are.

= Solve a problem. => Can't solve a problem mithout telling volvo me are:
Scaler.com. Scaler.com/meetings/ Scaler.co
Scaler. com [admin] ————————————————————————————————————
Tech Park.
Scoler



=> Anyone miter a valid I'd card mill be able to enter inside the effice. But to enter inside a specific meeting room me may need some extra access fermissions.

AUTHENTICATION.

>> Telling the server who you are.
>>>> Process using which server identifies who you are?

MOITASINOHTUA

Authentication to you have on appropriate permission

scaler. compad	min _			\
Authorization => Au	thenticat	iou t	Roles Pr	ermission
Authentication => En	nair Ph	ore De	Po	oles-
RBAC Role Based Access Control.				
users		802	es.	
		ી	Value	
		<u> </u>	STUDENT	
		2	AT	

	Value	
<u> </u>	STUDENT	
2_	7 A	
3	MENTOR	

INSTRUCTOR

User

=> mapping table

mer voles.

mer.id	sole-id
1	7
7	2_
	3
ί.	;

Scaler · com admin

=> Moule Booking Platform.

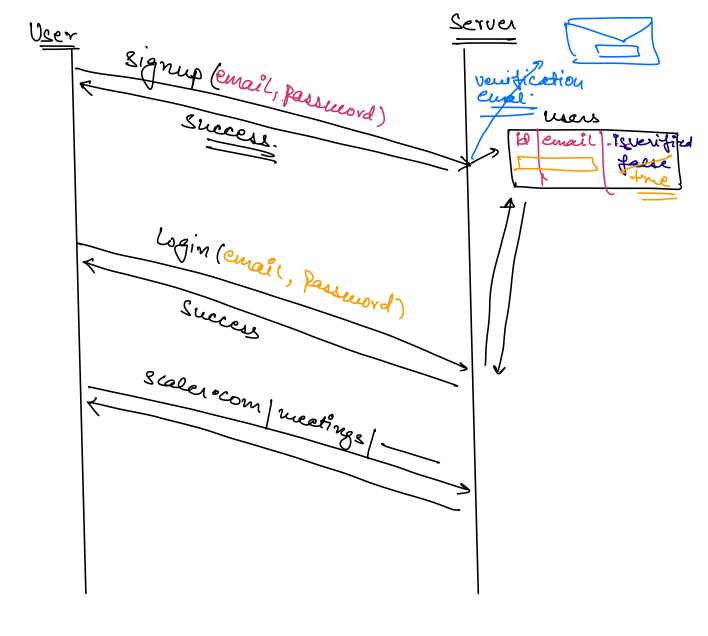
	Authorication	Authorization
1) See the availability of a particular Show	×	×
D Book a ticket		×
3 Cancelling a ticket:		

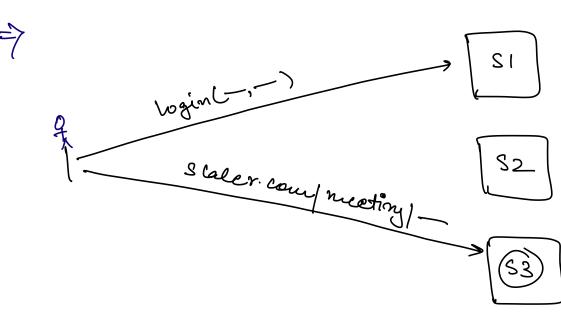
Ecaler. com/topics/courses/ Lo No Authentication. if we is toying to watch a recording.

Authentication # How Authentication flow morks. ? - Email + passurord - Phone + Otp. Whenever any user wants to verify tuenselves. > (id) = Email > Some way to verify if that id belongs to you or not.

(1) SignUp (email, passinord) > Verify by sending a verification link to check if the fiven belongs to the run or not. => lueates à user mêter the given credentials. 2 Login. Login (email, passuord)

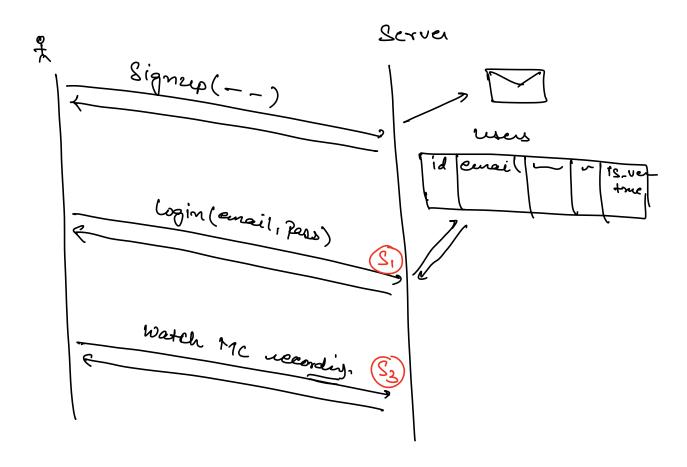
Success | failure.





> tvery request should be self sufficient.

> Stateless.

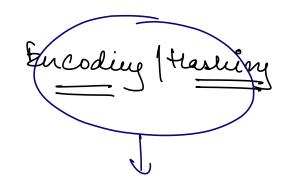


users

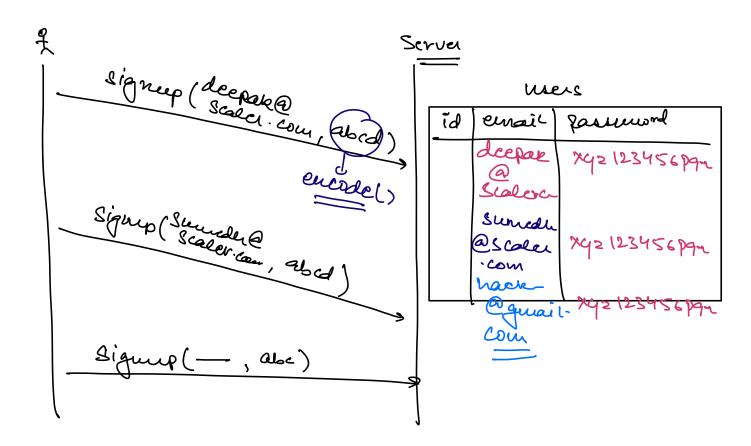
id	email	passecord	-	_	 _	 -

=> What if the DB gets Compromised?

2019: Patabases shouldn't store the passitions as it is in the plain text.



Same value leads same encoded hashed you



=> Same passuord gets same harl.

> Create à sample account with most common personnords

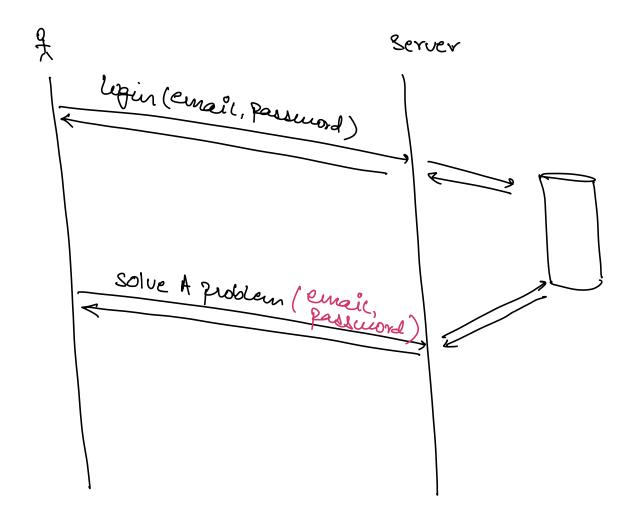
hacker @ quait. com

=> Hashing + Salting Blyptlassmord Eucoder (-) encode (abcd) = \$2a123xya5pq encode (abcd) = \$299mno - - -Signup (email, Fassmord) BlugtEucoder. eucode (jassuord) Save in the 78 begin (email, passemond) x = db. getfassuord (enail) = encode (passuord) 14 (x== y) 1 legin success Jailun

> matches
boju (email, passuord)
x = db.getfassword (enail)
Blight Encoder. matches (x, Rassmord)
Is it possible to
generate Denosed
Value from the
from value from the fisher from the lis passing fresheard.
matches (x), fareword)
Returns true if X can be generated from
forsuprd or not

Token.

Servers & HTTP protococ are statelers.



Decourse HTTP is a stateless, me need to send all the details required to authenticate cuits may request.

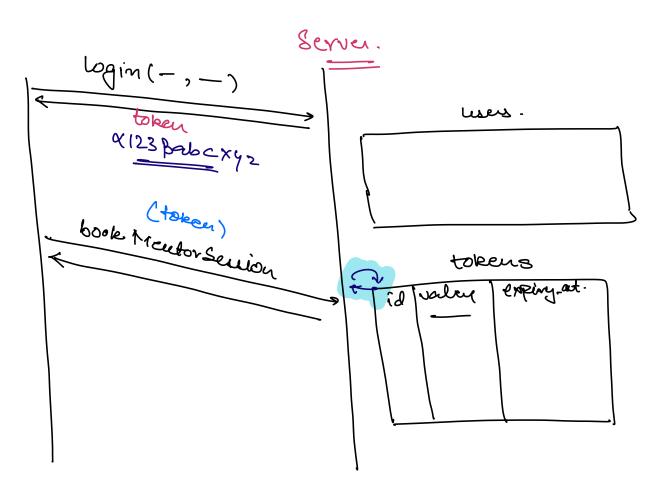
Plerver mith authenticate the regness by making a 7B call.

Cesty operation.

Cache. Coetly \$\$

Sync overhead.

Token



=> If email & passinord matches, server generales a token for that user & sends it in the responses & same it to DB.

To validate the token, server still needs a

TB Call.

time consuming.

=> What if Somehow token Contains all the information required to validate itself, then do me need a DB Call?

