

Authentication & Authorization

↳ Difference

↳ OAuth 2

↳ JWT

What is Authentication?

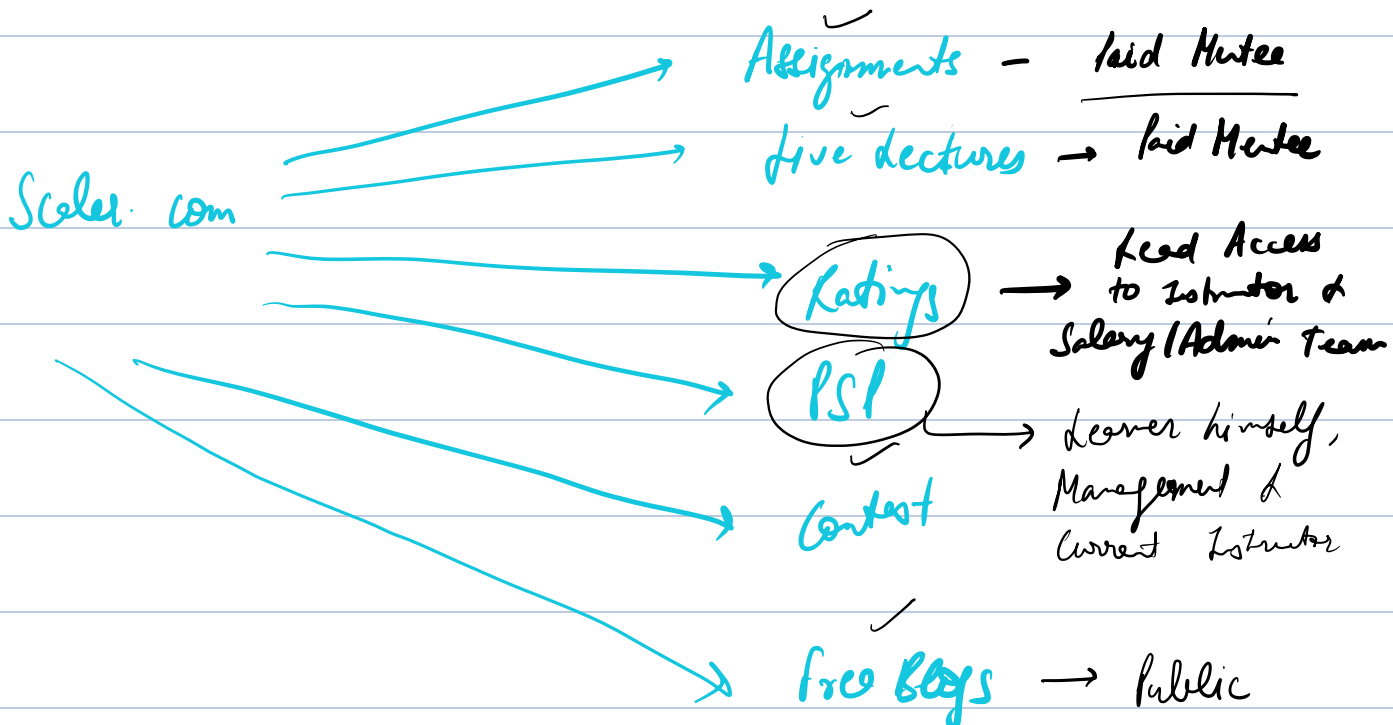
↳ Validating or Identifying
Someone

« Proof of Identity »

Authn

↳ KYC

Know your Customer



Authentication means process of knowing who the person is who is trying to access some resources

knowing the person → Authentication

whether he/she should be allowed

↳ Authorized

Scaler.com

Mar 2020

July 2023

ak@gmail.com
yuhh

Authentication

ak@Scaler.com
XXXXXX

Host a class

Read free flog

Enquire about Mentorship plan

Authorization

Andhan



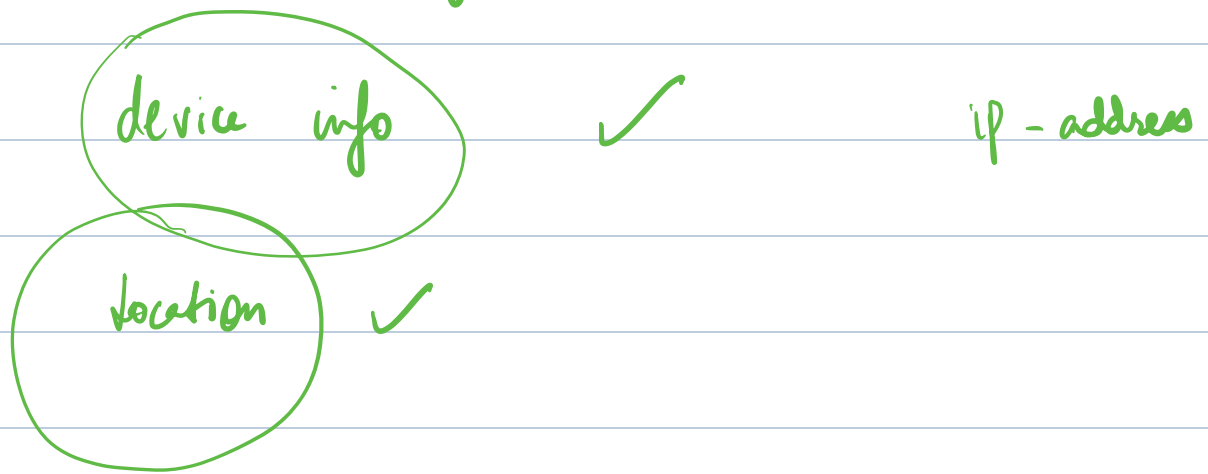
Authentication

boarding pass



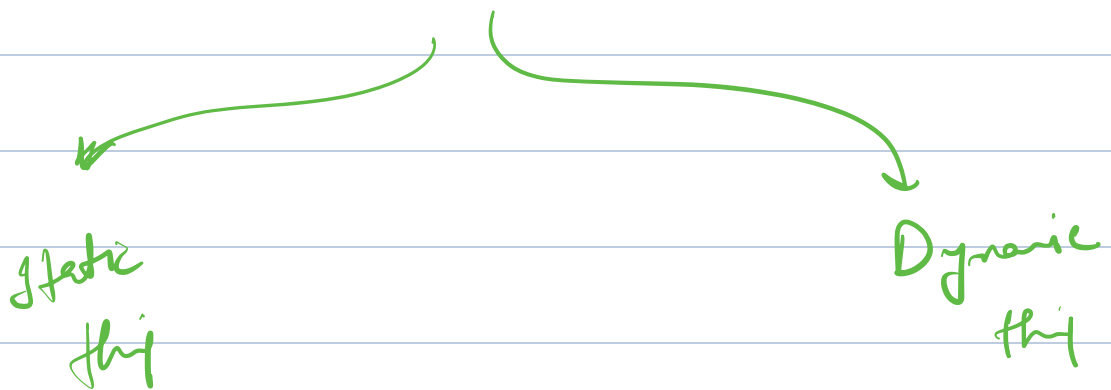
Authorization

Proxy Attendance



MFA

Multi-Factor Auth



- password
- finger print

- otp
- session limit
- 3 Security ques

Auth

open Authorization 2.0

One of the first protocol which came to
Market

this is used for authentication & Authorization
both

OAuth 2.0 came in 2012

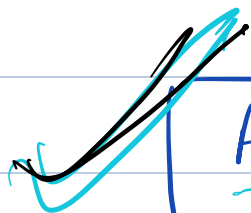
login with Google

gmail.com



Authenticated

login with facebook



Allow access to photos,
contacts, videos...



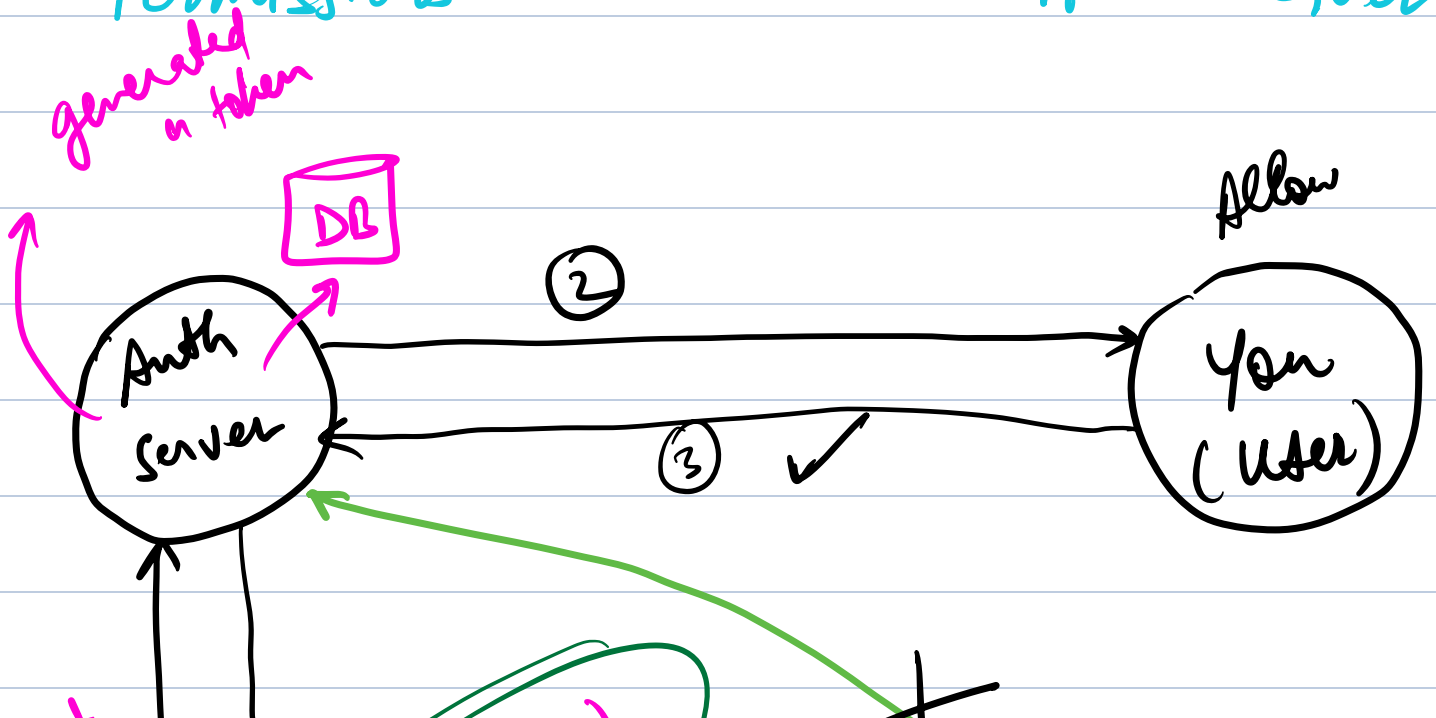
Resources
Types, methods

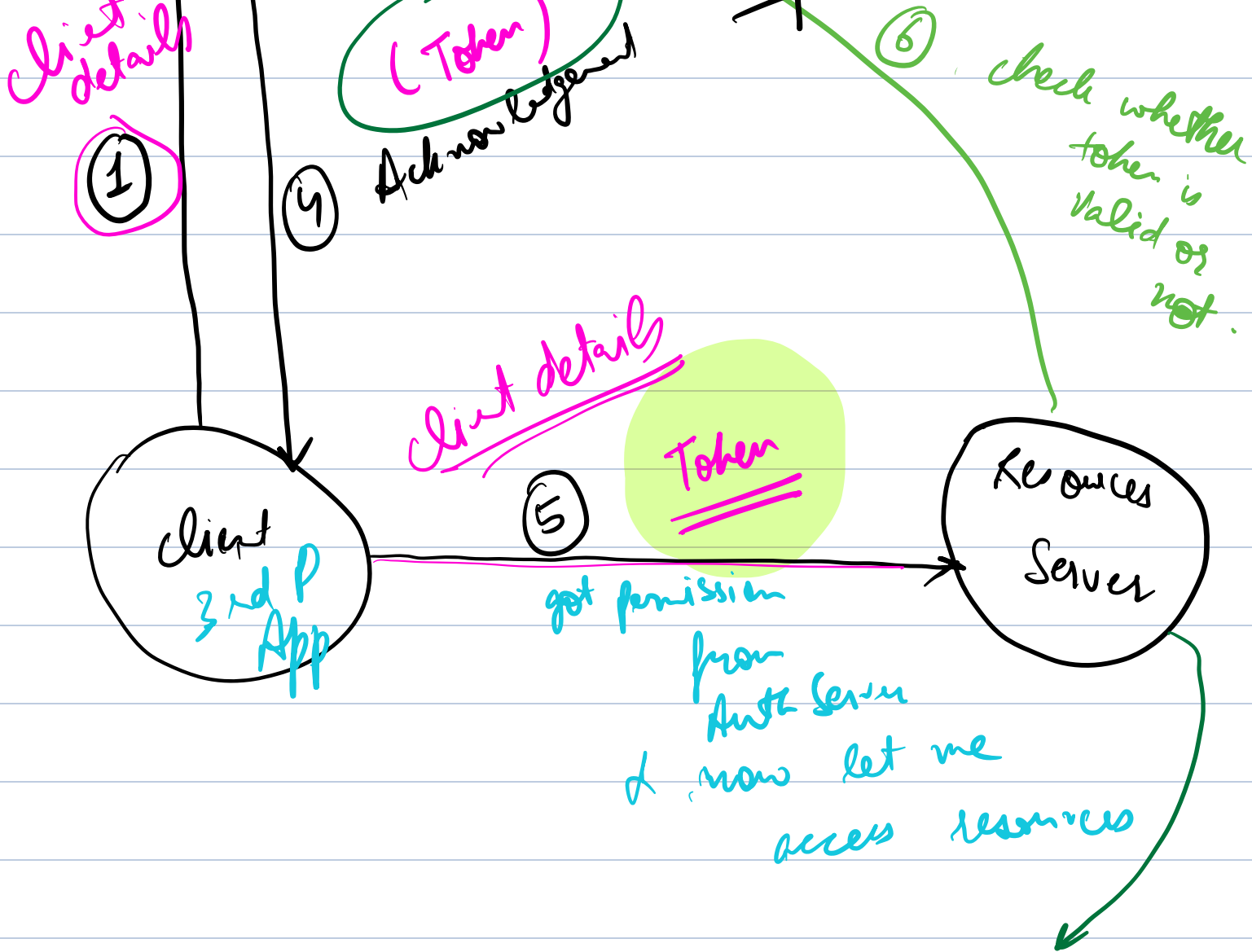
Resources
Server

Permissions



Auth Server





we want this token to be self sufficient so that RS need not to go to AS.

Client → student

Auth Server → principle

Resource Server → Teacher

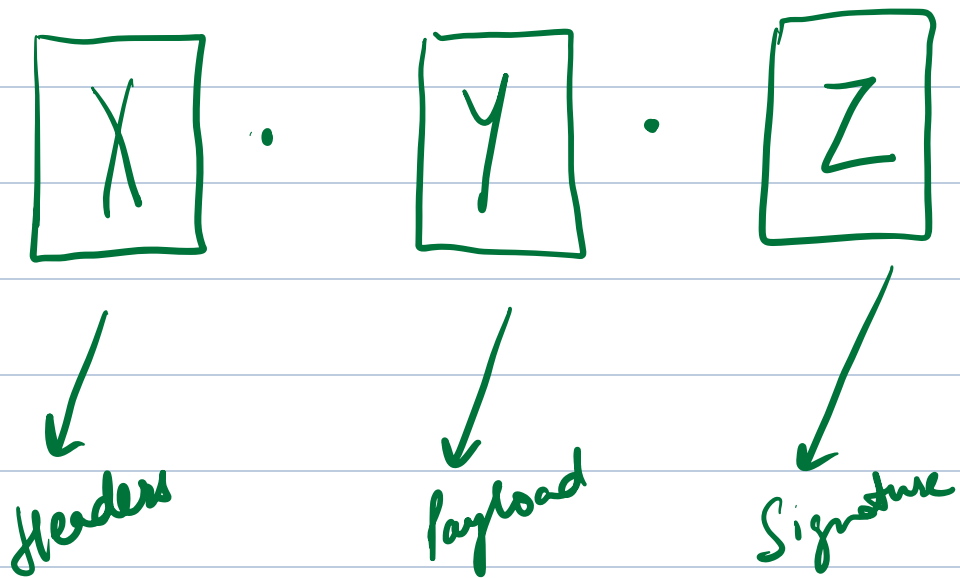
Signed letter → proof

Resources

→ Half day leave

J W T

Json Web Token



Headers is the name of encryption
Algo like HS 256, RSA in
64 Bit Encoded Format.

Encoding means reducing (compressing) the size

Encryption means applying security (password protection) over some file or folder.

Payload will be real data

- ↳ client details
- ↳ client access
- ↳ Time of Gen & Expire

in Base 64 Encoded format.

Signature



HS256 [(Base 64 Encoded Headers) • (Base 64 encoded payload) , Secret]

Header → HS256

Payload → { name : "Anurag" }

Base 64 Encoded Header → XYZ

Base 64 Encoded Payload → ABC

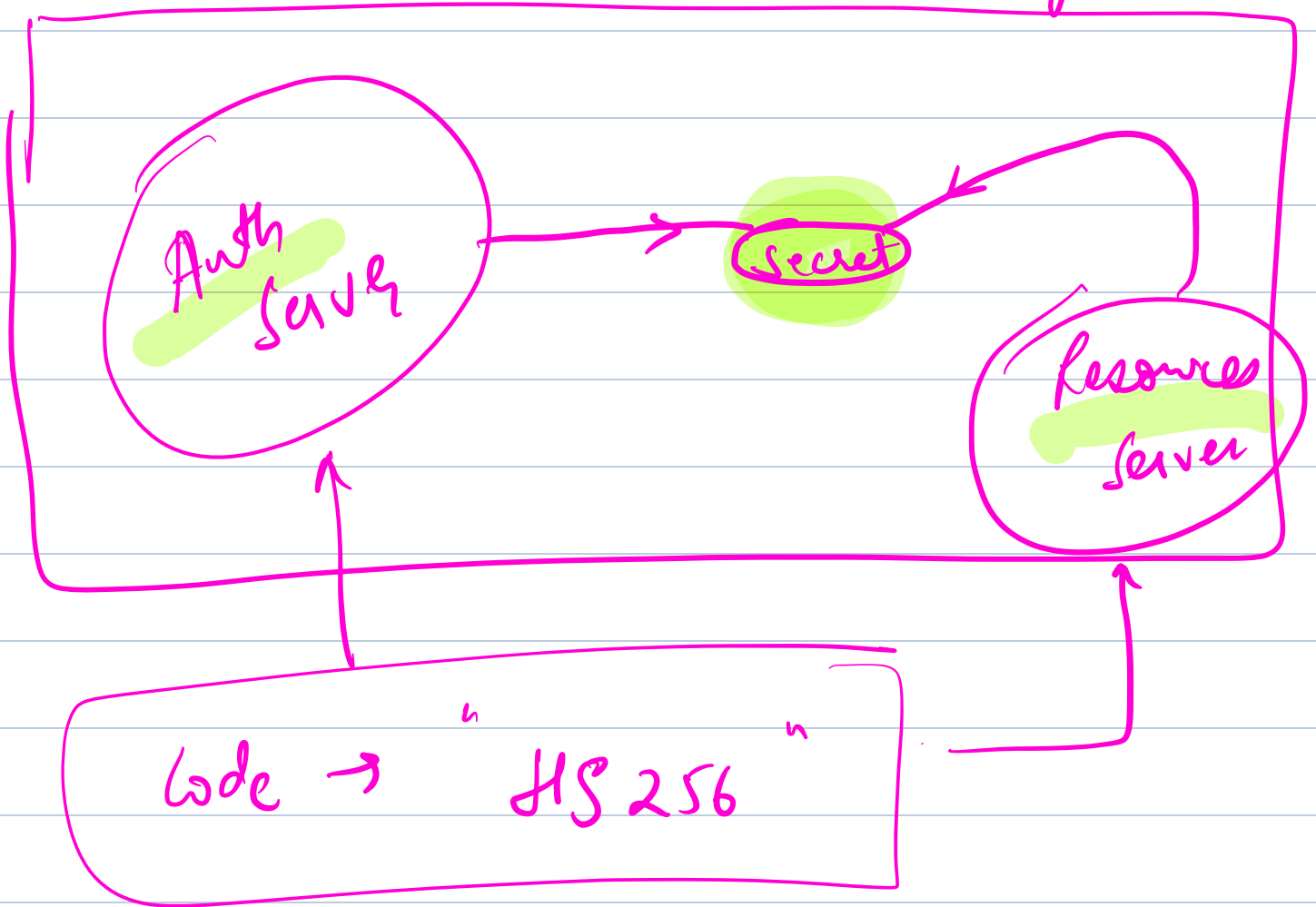
HS256 (XYZ · ABC, Secret)

↓
RRR

JWT

XYZ · ABC · RRR

Google Boudy



payload will not chge in
step 1 ✗ step
5