Lecture 3 - 19th Sep 2025

Mono lithic Systems.

what is it?

- -> One .zip deptoyed as whole with all (models, views, controllers).
- -> Shaved memory & database
- Advocu: Easy to start development - One file = One Deploy.
- → Sisadvan: One bug → All crash

Deployment is Bottleneck

inefeat of this use

Micgo - Services

- > small INDEPENDENT services > each responsible for one specific business function
- > they communicate withe cochother using APIs (MTTP, REST, grape).
- > smaller apps sustead of one big app.

 - -> each how separate DB -> each can be deployed and scaled independently.

Micro services ++ : S'enverles Components

- -> no Seewers to mounage. jourself.
- -> pay per usage auto scaling

V I (I '

Swagger.

- tool for documentation of APIs

AWS: API Godeway

- -> FRONT-DOOR for our backerd with Security checks & job of "Receptionist".
- -> ROUTES nequests to CORRECT Combidas

AWS: Lambola

-> Serventess: boor we don't need to create & manage a server.

Couracting

-> API Godeway -> edit integration ->
cheose "Lambda func".

-> Enable " lambda proxy integration".

-> Choose "fambda function".

- Submit & Done

We can test the 'apit landsda' working.

1

But now we need to Deploy the API

but BEFORE that &

- O dick "Enable CORS".
- 2 aick "Deploy API".
- tais will give us an "invoke URL'!

 which can be used to access the

 working
- we can also create APIs directly from API Gateway using "Create Resource".

Once everything is done & aick on

Generate SDK"

when we get the DK-> we can directly Isuk it to the farontend.

Replace the SDK in the code by the one downloaded.

01:03:00 -RECAP.

If one bombola sends output to other lambola -> It can act as an BOTTLEWECK due to law of "SIDIOEST Component".

We need to DECOUPLE them - by putting in our SQS in between.

Dovemel Paper Review.

1 Storing data in columnar storage.

POF Content

- = SDK (Software Dev. Kit).
 - collect of tools, libraries and code samples -> that helps down interact with perform/ service/API easily.
 - = Async
 - Client & Sewer DONT NEED to communicate at ONCE.
 - Process:
 - count sends requests
 - forgets about it,

_	Souver does peu cessity.
_	Informs ceient LATER using callback, went, webhook, message queue
	Aws sqs
	#WS >43