**Is 302, Moso As,**

**Task : Service Design**

SEGMENT 1

TASK MAP

BUSINESS EXPLANATION

Moso is using AWS. Create a lambda code which

* ~~Checks database for user who didn’t login for 1 month~~
* Warn them with their registered emails that if they do not login within a week their user profiles would be deleted.
* ~~And do so, delete user and save deleted user profile logs.~~
* ~~User should be informed on deletion~~

TASK SUBS

1. ~~Create WarnedUser with warningDate~~
   1. ~~Id:PK : auto-increment~~
   2. ~~UUID : VarChar~~
   3. ~~Warning\_Date : DateTime~~
   4. ~~isWarned: Boolean~~
   5. ~~isDeleted: Boolean~~
   6. ~~Deletion\_Date : DateTime~~
   7. ~~Last\_login~~
   8. ~~Email~~
2. ~~Select expiring users~~
   1. ~~Needed Columns from master table:~~
      1. ~~Uuid : VarChar~~
      2. ~~Email : VarChar~~
      3. ~~Last\_login : DateTime~~
   2. ~~Meet condition : Last\_login <= DATE\_SUB(NOW(), INTERVAL 11 Months)~~
3. ~~Get data from master table~~
   1. ~~Response = list of user objects~~

~~4-For each expiry in expiry\_user\_objects;~~

~~Check if~~

~~expiry exists in the warned\_users table in the moso database,~~

~~And isMailed true a week ago,~~

~~then,~~

~~Delete user from the users table in the moso database,~~

Delete user from aws servers,

~~And,~~

~~Set isDeleted true in the warned\_users table,~~

~~#isMailed:false|empty, then,~~

Send an email to the user,

A fullfilled version on aws:

use the registered mail in the warned\_users table,

and say that “your moso account is passive for a time please take action an log into your account in a week. Otherwise your account will be deleted permanently”,

~~And,~~

~~set isMailed to true,~~

And,

~~register the mail sending date to the mail\_date column I in the warned\_users table in the moso database,~~

On the other hand, expiry is mailed but it was less then a week ago,

do nothing, just skip,

If expiry does not exist in the warned\_users table,

~~Save non existence element to warned\_users table as a new row~~

And, Then do as in ‘If #isMailed:false|empty’.

SEGMENT 2

TASK MAP

~~manual.. 2 rds on aws~~

~~Database=mysql~~

~~Create a lambda of local~~

~~Load dependancy packs..~~

~~Check db connections..~~

~~Test lambda done, then migrate local code,~~

~~Run the code on..serverless--- lambda~~

Do as sam/cdk version..

BEST PRACTICES

~~First, Go manual and create an environment (framework, dependancy, mysql/database)~~

~~Source is separate,~~

~~This business logic is uavhengig,~~

TASK SUB

Create Source db on aws rds:

~~Migrate local databases to aws rds~~

~~Use rds service on aws to create db,~~

~~Mysqlworkbench~~

~~/server/export databse (with structure and data)~~

~~/new connection(aws endpoint, user, pass)~~

~~/creare new schema (for coming aws db)~~

~~/server/import database~~

Create passive\_users db on aws rds:

~~Manual (comply certain dayatypes), or~~

~~Pycharm (redefine host and other connectioin rules)~~

~~db on aws;~~

~~migrate or fill after filtering.~~

~~Run Business logic/service at local tru aws servers;~~

~~connects to aws servers~~

~~get results~~

TASK SUB

Stage 1

~~Lambda Tasks:~~

~~Setup lambda connection(Enable rds1 to vpc)~~

~~Add role to (lambda)moso\_expiry\_serevice for ec2fullaccess~~

~~Test connection~~

~~Lambda on local (tester)~~

~~Provide aws connection/get result~~

~~Load code to lambda~~

~~Package the code and dependancy to send to aws~~

~~Pip and zip~~ [~~https://docs.aws.amazon.com/AmazonRDS/latest/UserGuide/rds-lambda-tutorial.html~~](https://docs.aws.amazon.com/AmazonRDS/latest/UserGuide/rds-lambda-tutorial.html)

~~Upload zipped package~~

~~Lambda on aws (test)~~

~~A tester lambda~~

~~Connect/move to rds~~

~~Add it to RDS’s VPC~~

~~Permissions~~

Stage 2

~~Repeat stage 1 for business logic import/to aws lambda:~~

~~Connect server(source & passive dbs)s for business logics sake~~

~~Rds2: setup lambda connection from rds to lambda on aws~~

~~Upload/Pack business logic to lambda~~

~~Test lambda~~

ESTABLISHED RDS

<https://eu-north-1.console.aws.amazon.com/rds/home?region=eu-north-1#databases>:

DEPLOYED LAMBDA

<https://eu-north-1.console.aws.amazon.com/lambda/home?region=eu-north-1#/functions/moso_expiry_serevice?newFunction=true&tab=code>

TASK SUB

Code refactoring :

Deletion on source

7 days

Aws:

Cdk version from docker to aws

<https://www.youtube.com/watch?v=wbsbXfkv47A&ab_channel=pixegami>

Send email form lambda using ses

Trigger lambda-daily--Chronic