1. BaseStory - prerequisite for all other stories.

Description:

Designing Chalice Application ACG CSR repo (Folder Structure, Module Structure, AWS Services Handling etc.,) **Note**: we will do this work in a new experimental branch (“newDevChalice”) that will eventually replace our existing dev branch

Subtasks:

- Pulling in lib/framework dependencies
- Refactor the repository in ACG_AWS (only)

Dependency:

No Dependency

Estimated Points : 2-3

2. Persistent Roles/Permissions(IAM) for lambda Refactoring

Description:

Declaring required permission for lambda function as a config file so that chalice will reuse it every new deployment

Subtasks:

- Consolidating multiple permissions from all lambdas to one permission and inject into chalice

Dependency:

very thin chance of needing support from RSC team if something is not working as expected.

Estimated Points : 5 points

3. API Gateway Configuration

Description:

Defining API gateway configuration as file so chalice will use same config to recreate api gateway every new deployment

Subtasks:

- Implement all endpoint in chalice
- Configure as Private endpoint

Dependency:

No Dependency

Estimated Points : 2

4. Lambda Layers redesign (Dependency Management for Python libs)

Description:

Isolating python library layers from business logic modules

Subtasks:

- Divide business modules from python libraries
- Verify Automatic layer build process
- If automatic build fails for some libraries, inject into layers using manual library files

Dependency:

No Dependency

Estimated Points : 2-3

5. Merging/Refactoring ACG CSR API Gateway Lambda Functions as one

Description:

Merge all lambda functions into one and modify code as per new framework

Subtasks:

- Verify each function code for unnecessary code
- Modify lambda code for each function
- Internal testing of each function
- Regression on the whole API (sanity check) for the refactoring (no business logic changes implemented here)

Dependency:

Might need support from Aftaab (ETL funcs support etc)

Estimated Points : 5-8

6. Configuring Event Driven Lambda functions (This is for the other ETL based ones)

Description:

- Configuring s3-events to for ETL Lambdas through code

Subtasks:

- Modify lambda code for each event based functions
- Internal testing of each function

Dependency:

Might need support from Aftaab

Estimated Points : 3-5

7. Environment variable configuration

Description:

- Declaring env variables as part of config rather than another lambda function

Subtasks:

- Create Env config file
- Modify lambda code for each function
- Internal testing of each function

Dependency:

No Dependency

Estimated Points : 1-2

8. Logging Cloudwatch & RDS

Description:

- Tweking exiting logging mechanism to use chalice inbuilt logs

Subtasks:

- Create new logging mechanism
- Modify lambda code for each function
- Internal testing of each function

Dependency:

No Dependency

Estimated Points : 2-3