Team,

Please find below the complete use case: Write a place-cart function with following functionalities:

## A] api gateway:

url: /place-cart method: post

type of integration: lambda-proxy

## B] lambda:

function: place-cart

flow:

- 1. take cart and other data mentioned below from request body
- 2. validate data
- 3. check if cart exist by scan/query
  - 3.1 if already exists, return cart exists
  - 3.2 if not proceed below
- 4. get discount info from s3 on basis promotion code,
  - 4.1 if failed, return cart failed
  - 4.2 if succeed, should proceed below
- 5. populate cart model and store in dynamodb with current timestamp
  - 5.1 if failed, return response; cart failed
  - 5.2 if succeed, return response

## code checks:

- 1. s3 url and db url should get from parameter store
- 2. all functions should be properly commented, variables naming convention should be camel case
  - 3. error handling of each service call
  - 4. mocha-chai unit testing as discussed

## C] requestObject

```
D] Service response:
```

```
1. http code: 200
{
    cartId: string,
    cartStatus: string{successfully placed cart}
}
    2. other error http code: 500
{
    cartId: string,
    cartStatus: string{failed to place cart}
}
E] dynamodb data
1. make cartId as primary index, and userId and secondary
1. cart {
        cartId: string
        timesatmp: date,
        userId: string,
        phoneNumber: number,
        emailId: string,
        promotionCode: string,
        items: [
                {
                        itemId: string,
                        quantity: number,
                        description: string
                }
         ]
        }
1. create a json file contain promotionId,
        {
                1111: {
                        description: string,
                        discount: number
                },
                1112: {
                        description: string,
                        discount: number
                }
        }
```

2. read file, get discount for promotionId [ - 1111]