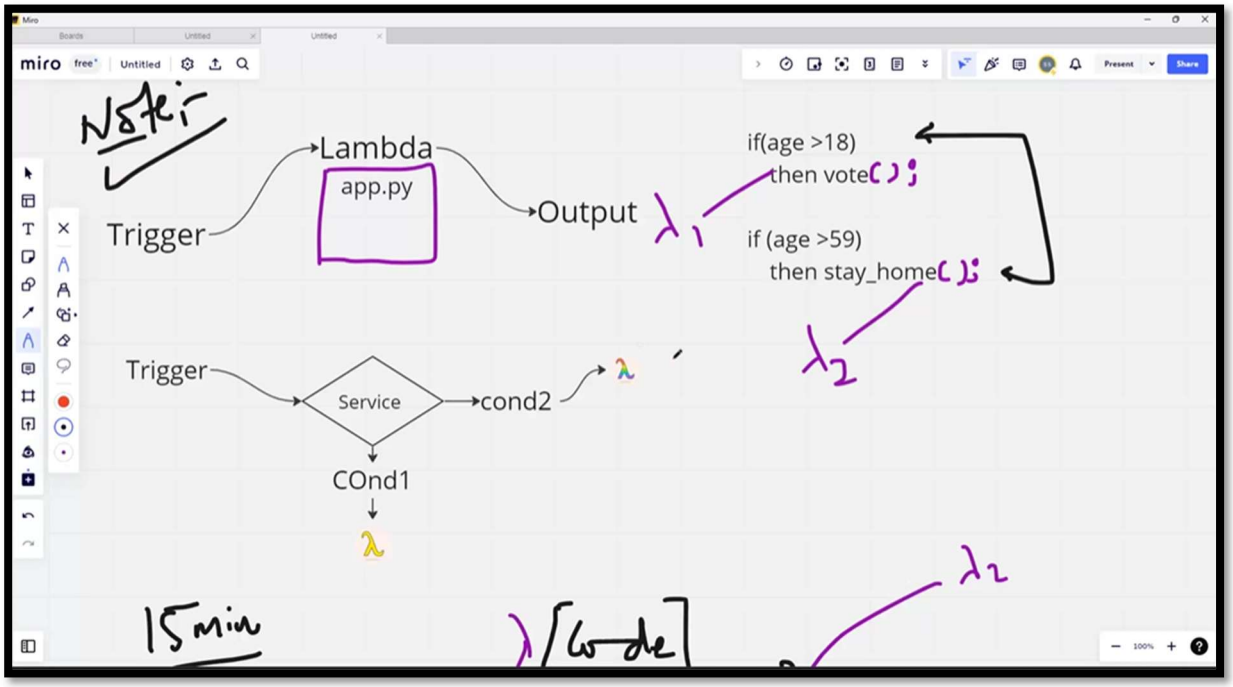
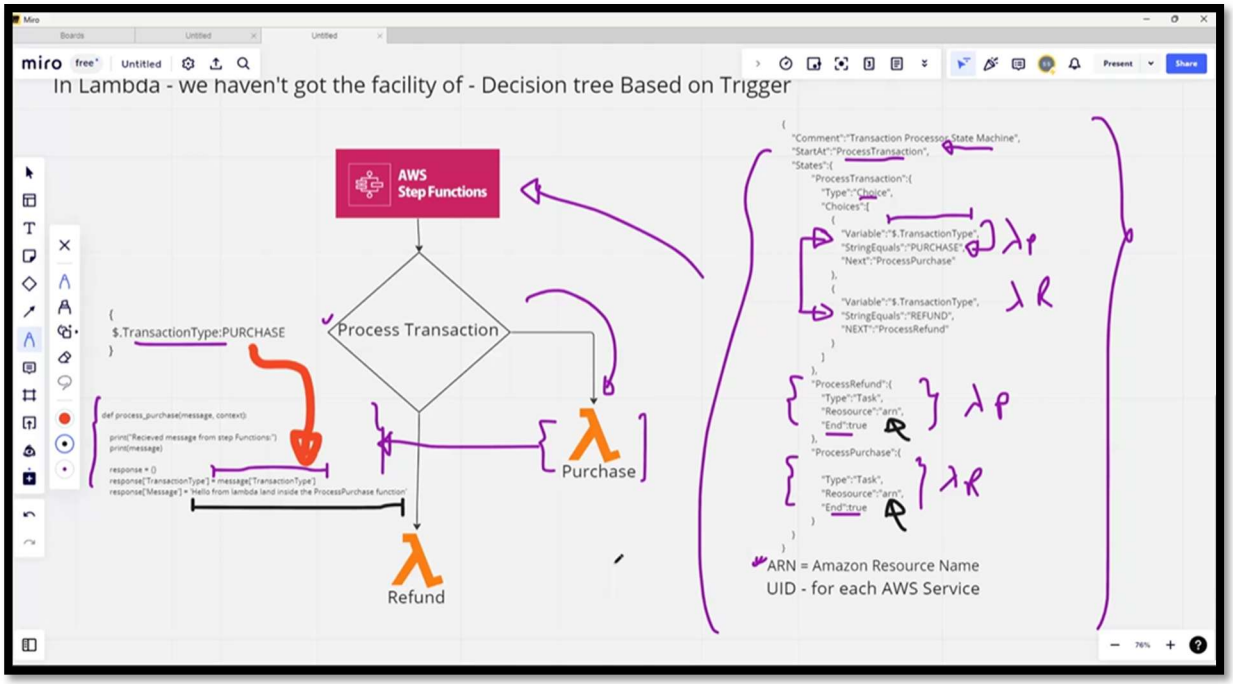
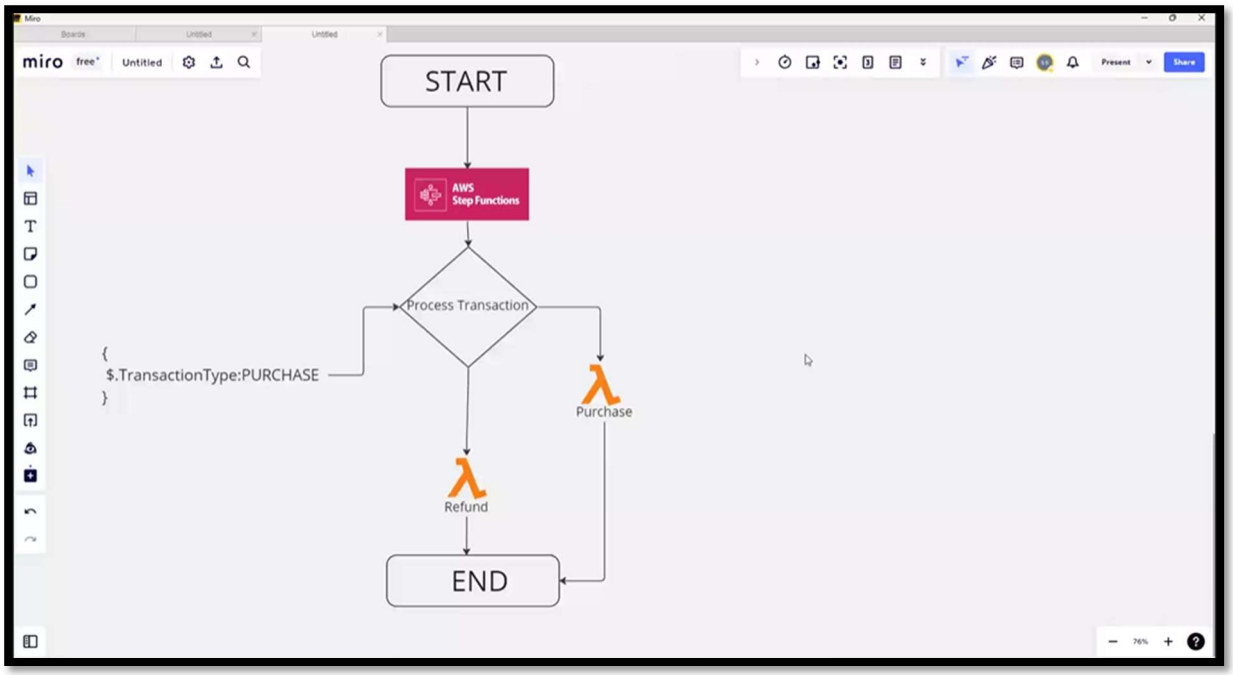
Notes


Trigger
Lambda
app.py
Output
if(age >18)
then vote();
if (age >59)
then stay_home();
Trigger
Service
cond2
COnd1
15 min

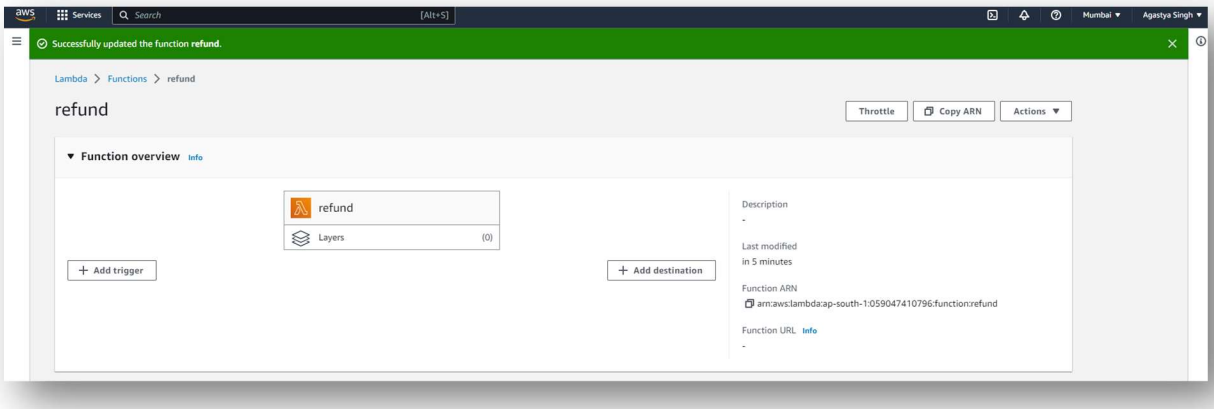

In Lambda - we haven't got the facility of - Decision tree Based on Trigger
AWS Step Functions
Process Transaction
$.TransactionType:PURCHASE
Purchase
Refund
ARN = Amazon Resource Name
UID - for each AWS Service



AWS Step Function

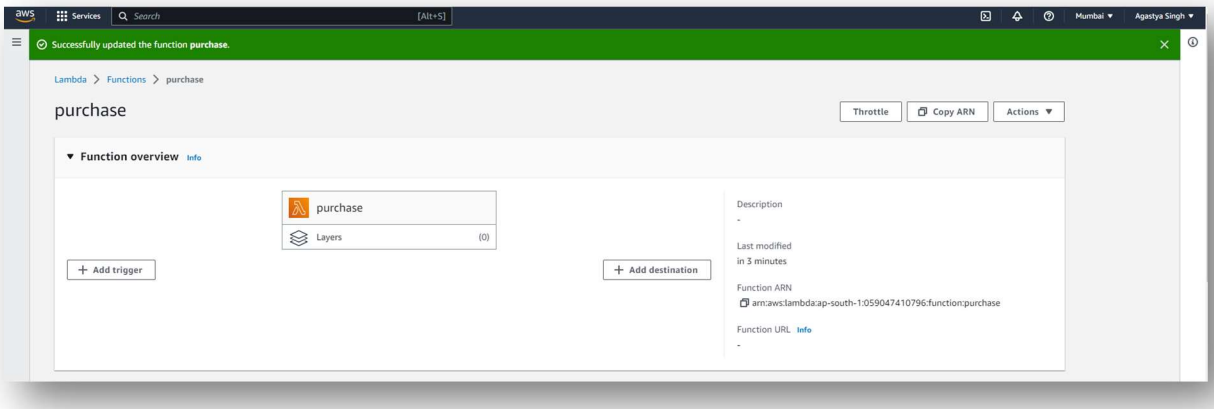
Refund Lambda

1. Create a lambda function named Refund.
2. Edit its code (python code) and change it to the one mentioned in the file (refundProcess.py) and appendix below.



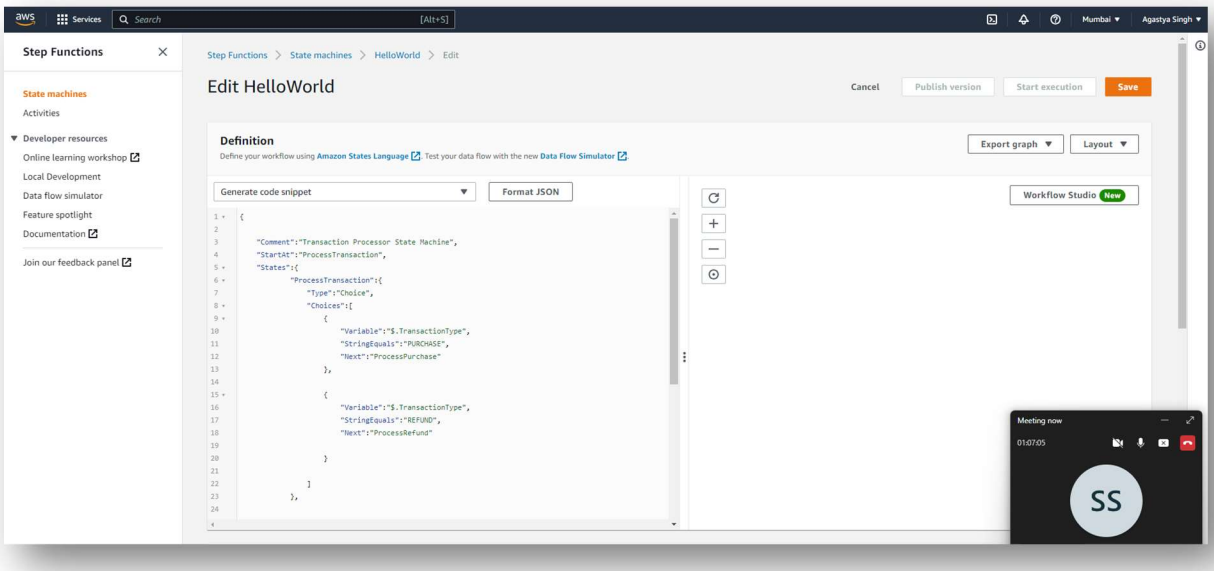
Purchase Lambda

1. Create another lambda function named Purchase.
2. Change its code as well, as mentioned in the file(purchaseProcess.py) and appendix below.



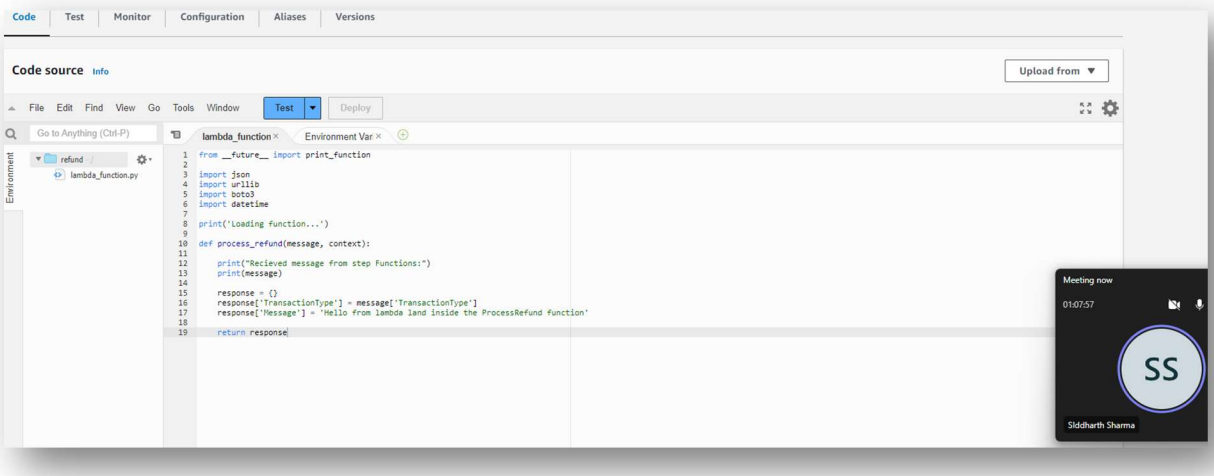
Step-Function

1. Now create an AWS Step Function and name it whatever you like, leave all the settings to default, and hit “create function”.
2. Now go on Edit and change the code as given in the file and mentioned below in appendix as well.



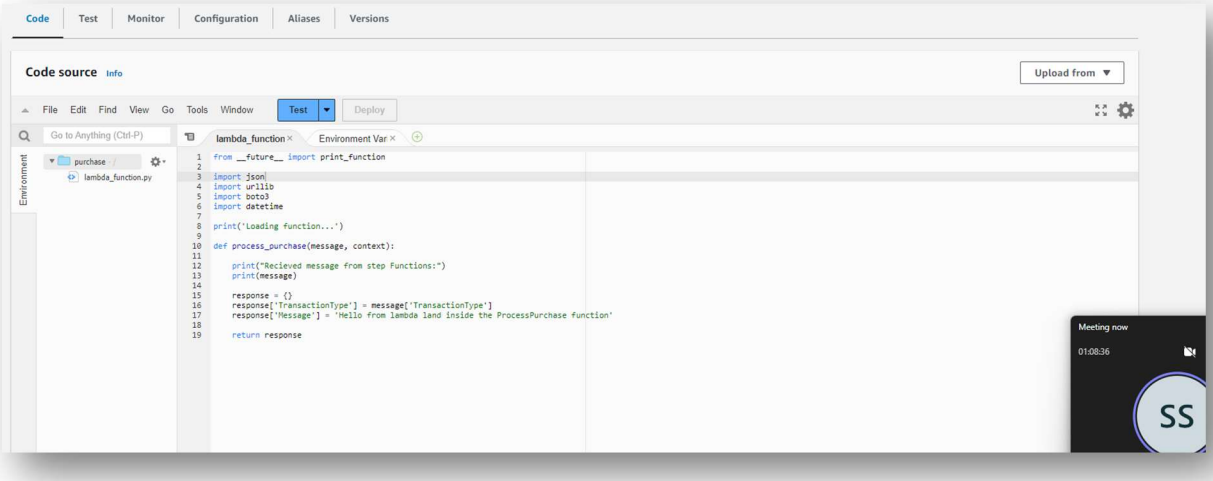
Refund-Json-code

1. Your code should look like as below:



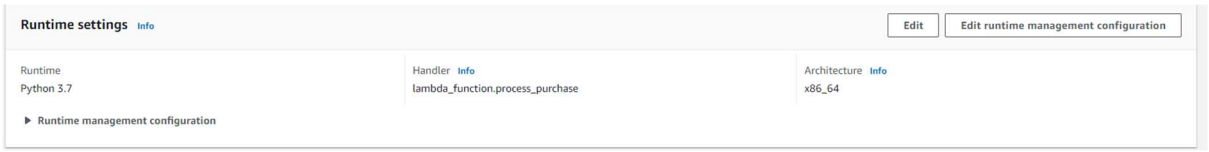
Purchase-Json-code

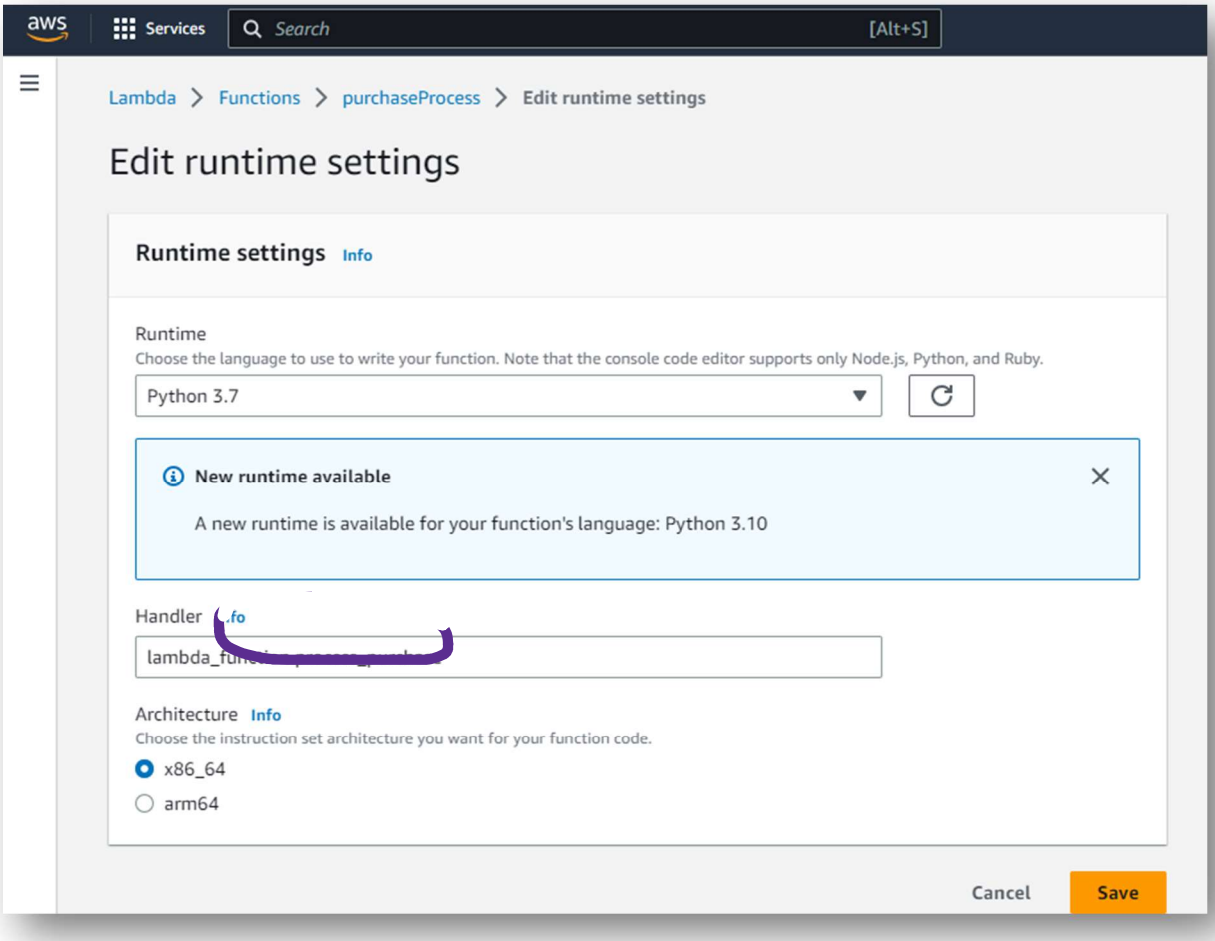
1. And your purchase lambda code should look like this:



Runtime Settings

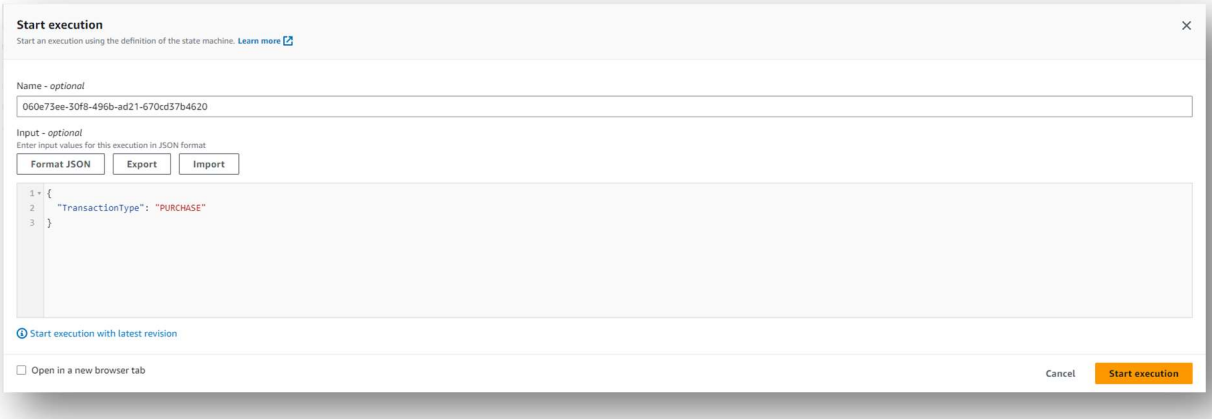
1. Now change the runtime settings of both purchase and refund lambda functions by clicking on Edit.
2. Change “lambda_handler” to its respective function name in the Python code as shown below:



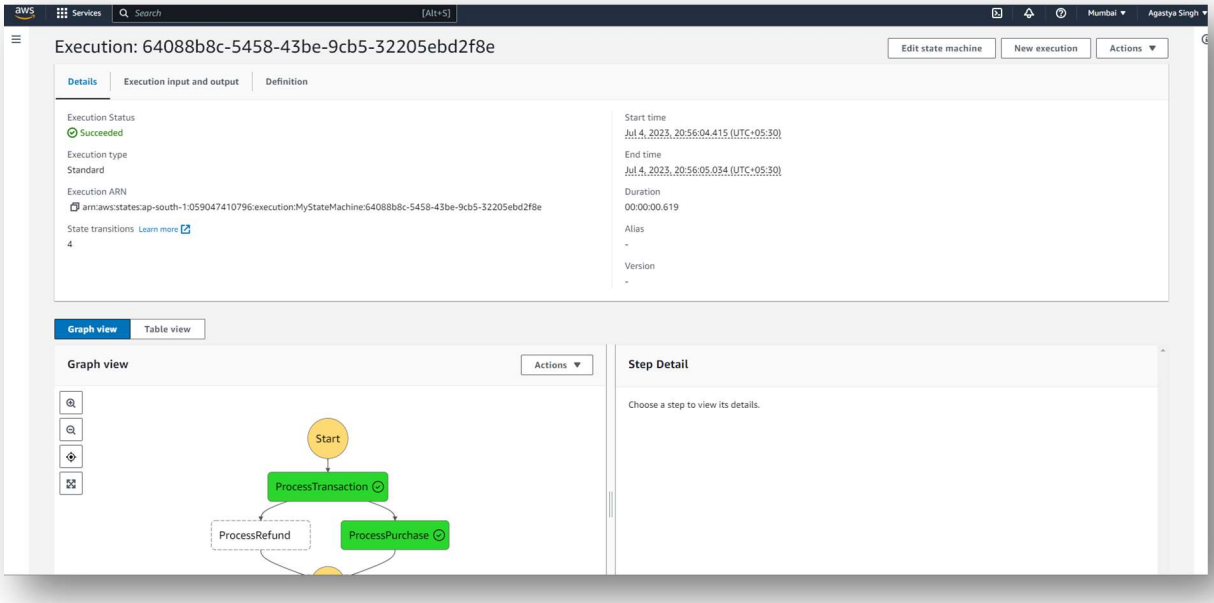


Start New Execution

1. Now start the “new execution” of the Step Function and change its Json code from “Comment” to “TransactionType”.



After Execution:



Appendix

PurchaseProcess.py

```
from __future__ import print_function

import json
import urllib
```

```
import boto3
import datetime

print('Loading function...')

def process_purchase(message, context):

    print("Recieved message from step Functions:")
    print(message)

    response = {}
    response['TransactionType'] = message['TransactionType']
    response['Message'] = 'Hello from lambda land inside the ProcessPurchase function'

    return response
```

RefundProcess.py

```
from __future__ import print_function

import json
import urllib
import boto3
import datetime

print('Loading function...')

def process_refund(message, context):

    print("Recieved message from step Functions:")
```

```
    print(message)

    response = {}
    response['TransactionType'] = message['TransactionType']
    response['Message'] = 'Hello from lambda land inside the ProcessRefund function'

    return response
```

Step-Function-code

```
{

    "Comment":"Transaction Processor State Machine",
    "StartAt":"ProcessTransaction",
    "States":{
          "ProcessTransaction":{
             "Type":"Choice",
             "Choices":[
                {
                   "Variable":"$.TransactionType",
                   "StringEquals":"PURCHASE",
                   "Next":"ProcessPurchase"
                },

                {
                   "Variable":"$.TransactionType",
                   "StringEquals":"REFUND",
                   "Next":"ProcessRefund"

                }
```

```
            ]
        },


        "ProcessRefund":{

            "Type":"Task",
            "Reosource":"arn",
            "End":true
        },


        "ProcessPurchase":{

            "Type":"Task",
            "Reosource":"arn",
            "End":true
        }

    }

}
```