

Capstone Project Weekly Progress Report

Project Title	MEALBUDDY
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Reporting Week	21 JUNE 2020 - 27 JUNE 2020
Faculty Supervisor	WILLIAM POURMAJIDI

1. Tasks Outlined in Previous Weekly Progress Report

- Will be solving CORS issue for api client and api gateway
- Creating SQS for receiving the messages from LF1.
- Connect lambda(LF1) to lex.
- Access data from lambda(LF1) through lex and vice versa
- Will be sharing a architecture diagram

2. Progress Made in Reporting Week

- Solving the CORS issue for api client and api gateway for simple javascript, enough
 documentation was not available from aws instead they suggest aws amplify. Need to explore
 other options like https://aws.amazon.com/amplify/and https://aws.amazon.com/amplify/and https://aww.kommunicate.io/
- From LF1, we took the data and gave the chat bot an automatic reply according to the user input. The user inputs given to chat bot can be fetched by LF1. It is done by enabling the lambda function in Lex.
- LF1 github link : https://github.com/tom5167/mealbuddy/blob/master/LAMBDA/LF1/LF1.py
- Connect Lex chatbot with lambda function LF1 as a code hook which essentially entails the invocation of our lambda before lex responds to any of our requests.

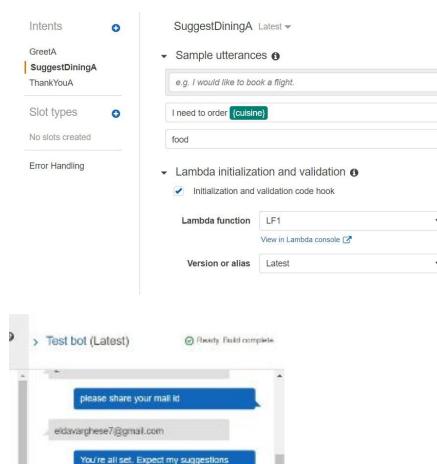


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Learned about Simple Queue Service (SQS)

Chat with your bot...

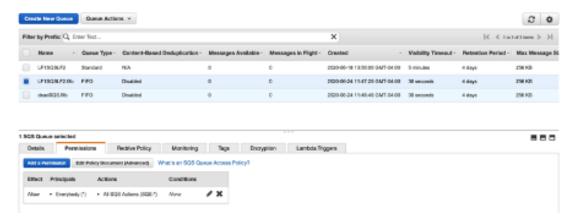
shortly! Have a good day.

Clear chat history

- □ SQS is a fully managed message queuing service that enables you to decouple and scale microservices, distributed systems, and serverless applications. SQS eliminates the complexity and overhead associated with managing and operating message oriented middleware, and empowers developers to focus on differentiating work.
- Amazon SQS works on a massive scale, processing billions of messages per day. You can scale the amount of traffic you send to Amazon SQS up or down without any configuration.
 - 1. Choose SQS service
 - 2. Choose Create New Queue.
 - 3. On the Create New Queue page, ensure that you're in the correct region and then type the Queue Name.
 - [The name of a FIFO queue must end with the .fifo suffix.]
 - 4. Standard is selected by default. Choose FIFO.

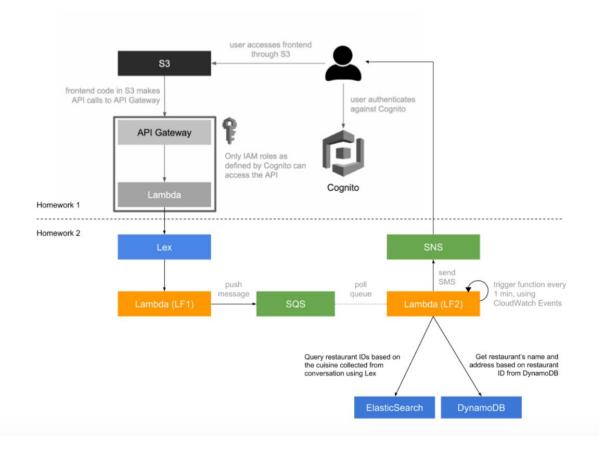


- 5. Create your queue.
- Created fifo sqs 'LF1SQSLF2.fifo' to receive messages from lambda 'LF1 '.FIFO sqs strictly
 maintain the order in which the messages arrive while the default standard sqs occasionally
 deliver messages in order.
- Added 'All sqs action' permission to sqs .



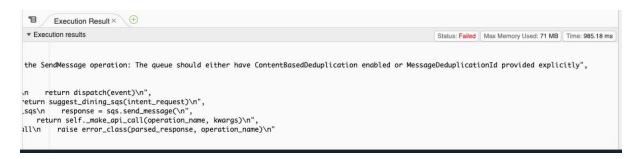
- Added dead letter sqs 'deadSQS.fifo' for isolated messages that cannot be processed correctly.
- Architecture diagram





3. Difficulties Encountered in Reporting Week

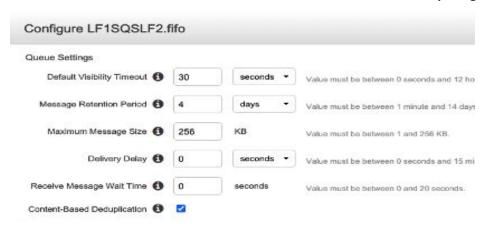
- Connecting lambda to chat bot. Fetching data from lambda to Lex
- Got the error message 'the queue should have content based deduplication enabled' while sending message from 'LF1' to SQS



This issue is resolved by configuring the queue by checking 'Content based deduplication'



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4. Tasks to Be Completed in Next Week

- SQS-LAMDA (LF2) INTEGRATION Create a new Lambda function (LF2) that acts as a queue worker. Whenever it is invoked it pulls a message from the SQS queue (Q1).
- LF2 elastic search and dynamo db integration study
- Explore https://aws.amazon.com/amplify/and https://aws.amazon.com/amplify/and https://aww.kommunicate.io/