



Chatbot Integration with Lambda

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About

Using AWS Services such as a chatbot to order food.

1

Ordering pizza and drinks.

2

Ordering pizza and drink on a discount.

3

Track/Monitor users interaction from ordering food online.

Mission & Vision

Using cloudwatch to trigger lambdas to retrieve messages from the message queue from the chatbot.



mission

To create a chatbot that simulates human conversation.



vision

To enable conversation based food ordering.

Services

Requires an AWS account.

Used AWS Chatbot, Lambda Functions (Python language), SNS, and Cloudwatch



AWS Chatbot

Used a chatbot called Amazon Lex to build conversational interfaces.



AWS Lambda

Integrated the chatbot with the lambda function.



AWS Cloudwatch and SNS

Lambda function includes an SNS as a trigger for the chatbots conversions, and Cloudwatch displays users conversion in a log.

Outcome: Key Concepts

User > Lex Chatbot > Lambda > AWS Services(SNS and CloudWatch)



Amazon Lex

Bot
Intent, Intent name, Sample utterances, How to fulfill the intent

Slot, Slot type
Confirmation
Fulfilment



AWS Integrations

Lambda Integration with Amazon Lex Chatbot
SNS with Lambda
Cloudwatch based on Lambda

Future Scope



Security

Data Protection,
Data Privacy



Application

Make it a part of a web application.



Database Integration

Store conversation in a database for
analytical purposes.

Resource

Github link of the final project for Cloud Security.



GitHub Project:

[zmor-prog/AmazonChatBot \(github.com\)](https://github.com/zmor-prog/AmazonChatBot)



Written Form:

[https://github.com/zmor-prog/AmazonChatBot/blob/main/Cloud%20Security%20-%20Final%20Project%20\(Write%20Up%20Form\).docx](https://github.com/zmor-prog/AmazonChatBot/blob/main/Cloud%20Security%20-%20Final%20Project%20(Write%20Up%20Form).docx)



Amazon Docs

[Amazon Lex: How It Works - Amazon Lex V1](#)

[Confirmation - Amazon Lex](#)

[Using AWS Lambda with Amazon SNS - AWS Lambda](#)



Thanks!





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