

# CORONA ChatBot using AMAZON LEX



ABHISHEK

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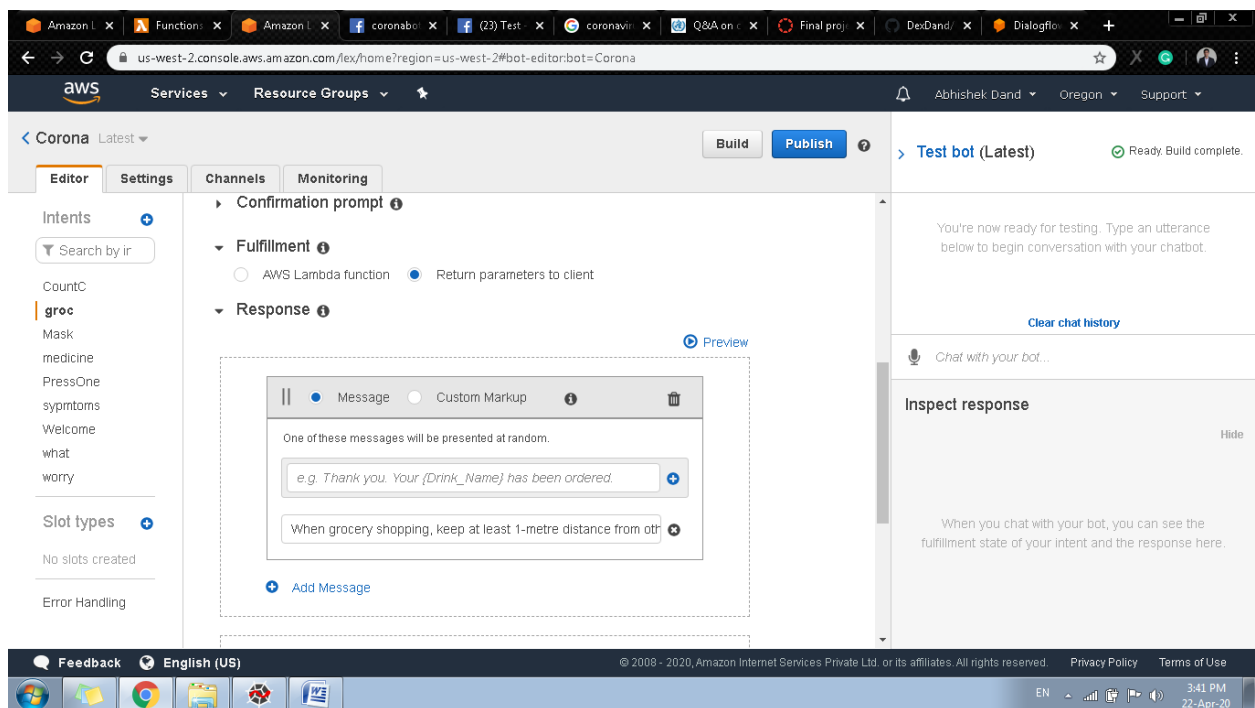
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## Introduction

Amazon Lex is a platform provided by Amazon Web Services to make conversational chat bots. I have made a corona chat bot which gives user the details about the current situation and also solves queries of the users. I have also integrated this chatbot in facebook messenger.

## Intents

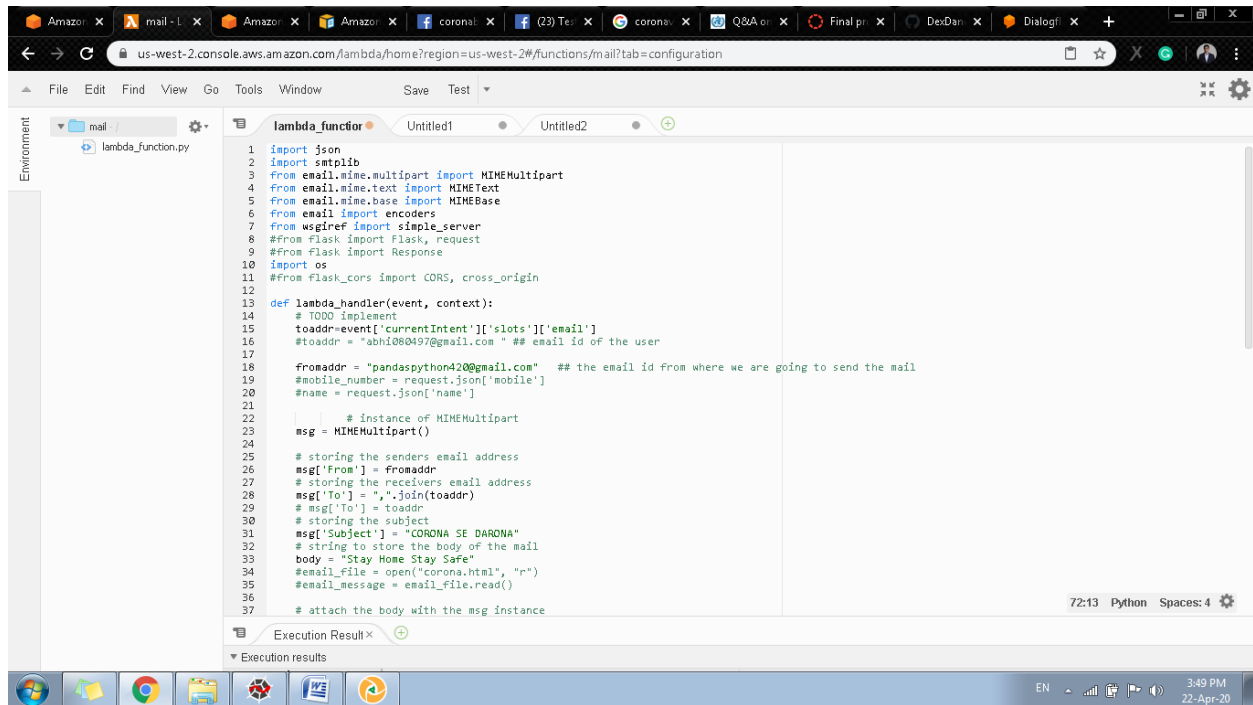
First of all I have added intent to gather the user data and afterwards I have made several Intents which solve the queries of the user.



# Fulfillment

For the fulfillment I have created two functions in Amazon Lambda. Here in fulfillment I have written the code in such a way that we will not require any server.

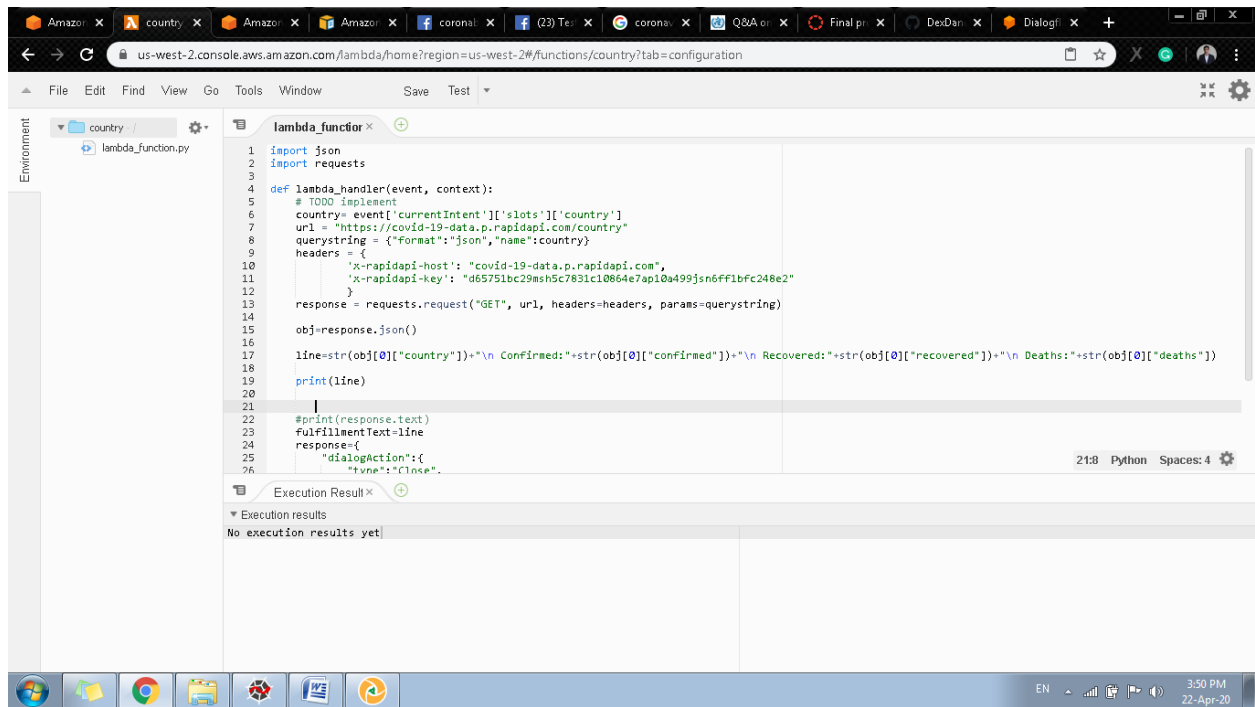
1. Function to send email to the user.
2. Function which uses API to return the live status of the count.



The screenshot shows the AWS Lambda console for a function named 'lambda\_function' in the 'us-west-2' region. The function is configured to run a Python script. The code in the 'lambda\_function.py' file is as follows:

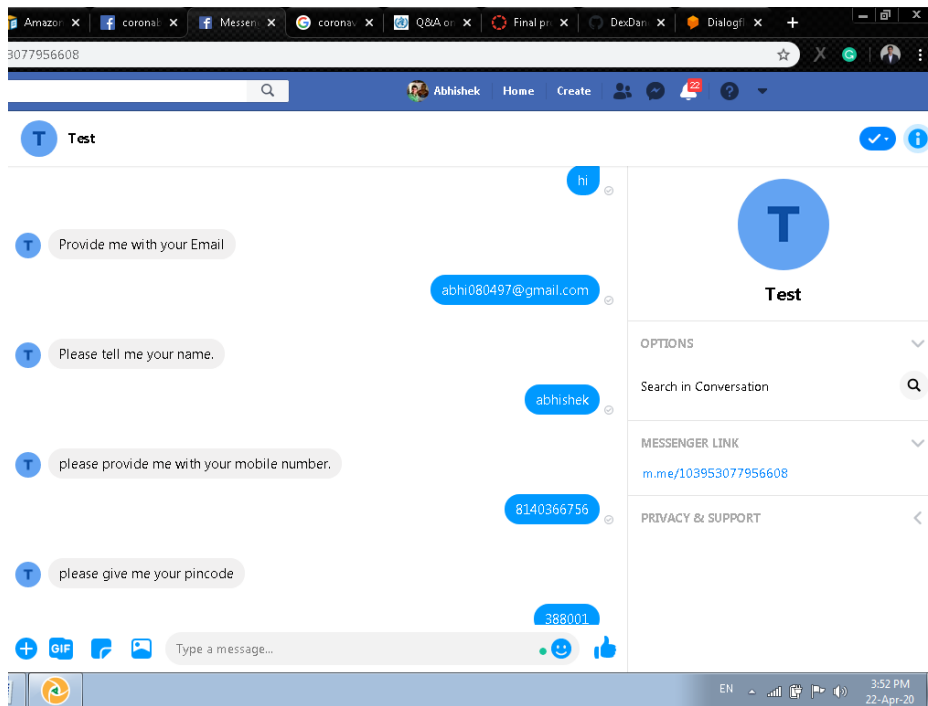
```
1 import json
2 import smtplib
3 from email.mime.multipart import MIMEMultipart
4 from email.mime.text import MIMEText
5 from email.mime.base import MIMEBase
6 from email import encoders
7 from wsgiref import simple_server
8 #from flask import Flask, request
9 #from flask import Response
10 import os
11 #from flask_cors import CORS, cross_origin
12
13 def lambda_handler(event, context):
14     # TODO implement
15     toaddr=event['currentIntent']['slots']['email']
16     #toaddr = "abhi060457@gmail.com" ## email id of the user
17
18     fromaddr = "pandaspython420@gmail.com" ## the email id from where we are going to send the mail
19     #mobile_number = request.json['mobile']
20     #name = request.json['name']
21
22     # instance of MIMEMultipart
23     msg = MIMEMultipart()
24
25     # storing the senders email address
26     msg['From'] = fromaddr
27     # storing the receivers email address
28     msg['To'] = ",".join(toaddr)
29     # msg['To'] = toaddr
30     # storing the subject
31     msg['Subject'] = "CORONA SE DARDONA"
32     # string to store the body of the mail
33     body = "Stay Home Stay Safe"
34     #email_file = open('corona.html', "r")
35     #email_message = email_file.read()
36
37     # attach the body with the msg instance
```

The console also shows the 'Execution Result' section, which is currently empty. The bottom of the screenshot shows the Windows taskbar with the time 3:49 PM on 22-Apr-20.



## Facebook Messenger

I have made a page named test and integrated my chatbot in its messaging service.



Amazon x coronal x Messenger x corona x Q&A on x Final pr x DexDan x Dialogi x +

3077956608

Abhishek Home Create

T Test

symptoms

The most common symptoms of COVID-19 are fever, tiredness, and dry cough. Some patients may have aches and pains, nasal congestion, runny nose, sore throat or diarrhea. These symptoms are usually mild and begin gradually. Some people become infected but don't develop any symptoms and don't feel unwell. Most people (about 80%) recover from the disease without needing special treatment. Around 1 out of every 6 people who gets COVID-19 becomes seriously ill and develops difficulty breathing. Older people, and those with underlying medical problems like high blood pressure, heart problems or diabetes, are more likely to develop serious illness. People with fever, cough and difficulty breathing should seek medical attention.

2:29 PM

worry

Options

Search in Conversation

Messenger Link

[m.me/103953077956608](https://m.me/103953077956608)

Privacy & Support

Type a message...

EN 3:53 PM 22-Apr-20

Amazon x coronal x Messenger x corona x Q&A on x Final pr x DexDan x Dialogi x +

3077956608

Abhishek Home Create

T Test

problems like high blood pressure, heart problems or diabetes, are more likely to develop serious illness. People with fever, cough and difficulty breathing should seek medical attention.

worry

Illness due to COVID-19 infection is generally mild, especially for children and young adults. However, it can cause serious illness: about 1 in every 5 people who catch it need hospital care. It is therefore quite normal for people to worry about how the COVID-19 outbreak will affect them and their loved ones. We can channel our concerns into actions to protect ourselves, our loved ones and our communities. First and foremost among these actions is regular and thorough hand-washing and good respiratory hygiene. Secondly, keep informed and follow the advice of the local health authorities including any restrictions put in place on travel, movement and gatherings.

Options

Search in Conversation

Messenger Link

[m.me/103953077956608](https://m.me/103953077956608)

Privacy & Support

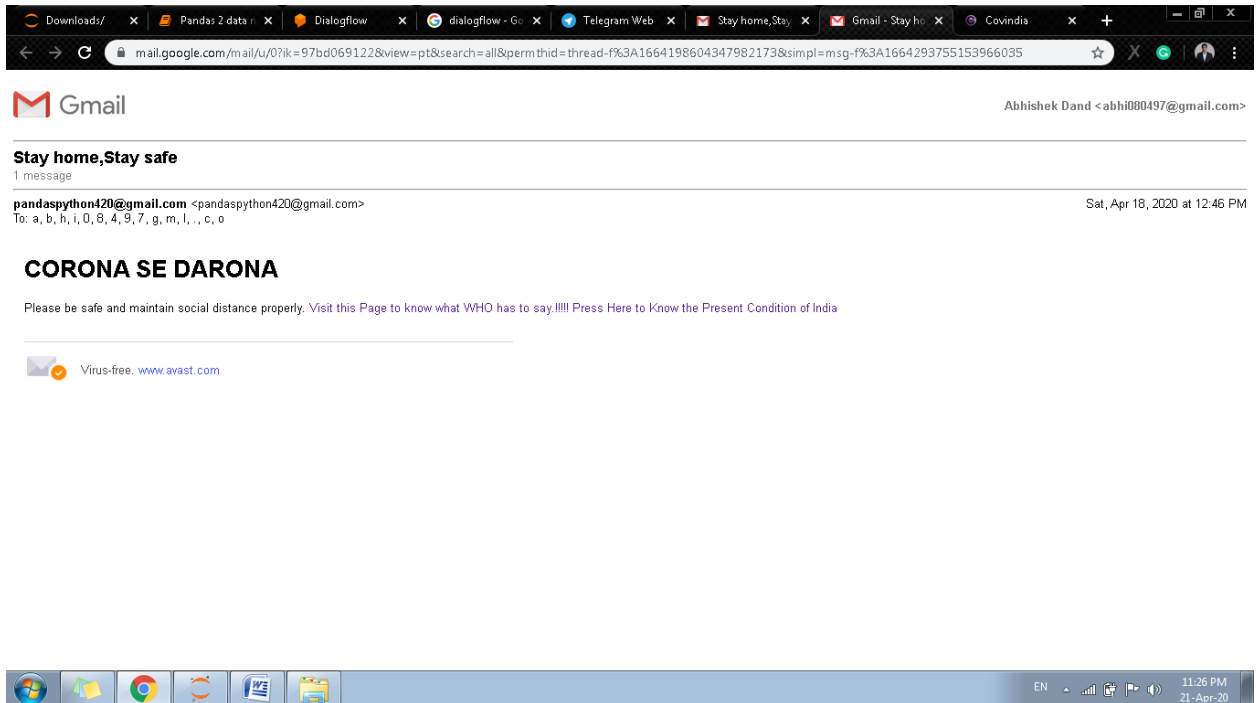
Type a message...

EN 3:53 PM 22-Apr-20

## Mail Attachment

In mail I have attached two links:

1. Official website of WHO as WHO can better explain.
2. [www.covindia.com](http://www.covindia.com) – website which shows details report on corona



## Conclusion

Hence this is my easy to use chatbot using Amazon Lex.