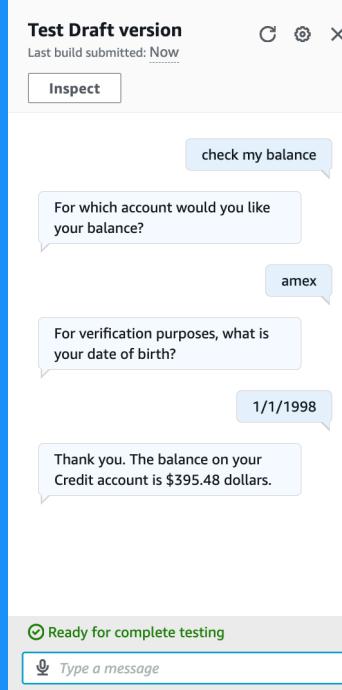




Connect a Chatbot with Lambda



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Introducing Today's Project!

What is Amazon Lex?

Amazon Lex is a fully managed artificial intelligence (AI) service from AWS that enables developers to build conversational interfaces, such as chatbots and voice bots.

How I used Amazon Lex in this project

in today's project i used amazon lex to connect a lambda function to a chatbot.

One thing I didn't expect in this project was...

One thing that i didnt expect from this project is how easy it is to connect a lambda function to a chatbot.

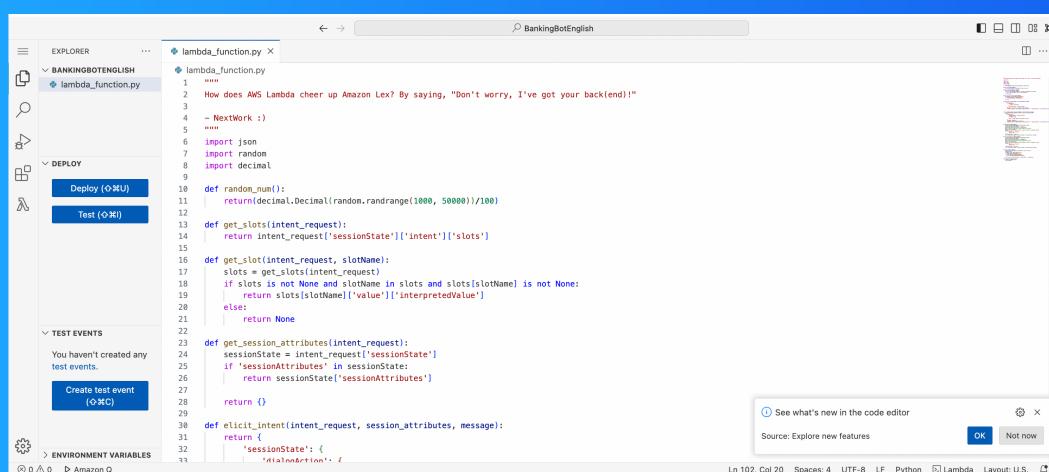
This project took me...

it took me around an hour to complete this project

AWS Lambda Functions

AWS Lambda is a serverless computing service provided by Amazon Web Services (AWS). It lets you run code without provisioning or managing servers, automatically handling the infrastructure required to run and scale your code.

In this project, I created a Lambda function to generate a random number on the fly (whenever a user asks for their balance).



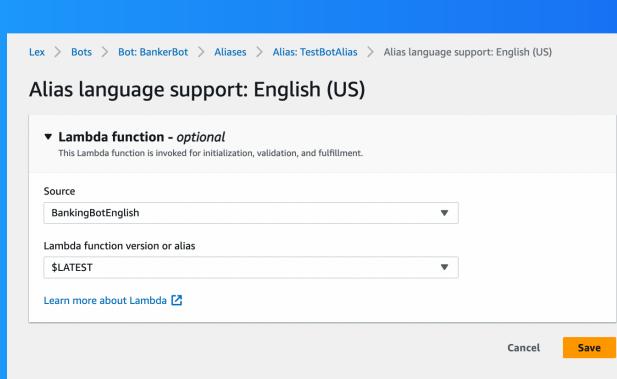
```
lambda_function.py
1  """
2      How does AWS Lambda cheer up Amazon Lex? By saying, "Don't worry, I've got your back(end)!"
3
4  - NextWork :
5  """
6
7  import json
8  import random
9  import decimal
10
11  def random_num():
12      return decimal.Decimal(random.randrange(1000, 50000))/100
13
14  def get_slots(intent_request):
15      return intent_request['sessionState']['intent']['slots']
16
17  def get_slot(intent_request, slotName):
18      slots = get_slots(intent_request)
19      if slots is not None and slotName in slots and slots[slotName] is not None:
20          return slots[slotName]['value']['interpretedValue']
21      else:
22          return None
23
24  def get_session_attributes(intent_request):
25      sessionState = intent_request['sessionState']
26      if 'sessionAttributes' in sessionState:
27          return sessionState['sessionAttributes']
28
29  def elicit_intent(intent_request, session_attributes, message):
30      return {
31          'sessionState': {
32              'dialogAction': 'ElicitSlot',
33              'slotToElicit': 'balance',
34              'message': message
35          }
36      }
```

Chatbot Alias

alias in Amazon Lex is a pointer for a specific version of your bot

TestBotAlias is a default version of your bot that's made for testing or development.

To connect Lambda with my BankerBot, I visited my bot's TestBotAlias and clicked on the language English(US) which directed me to a lambda function panel where we can select the source and the lambda function version or alias.

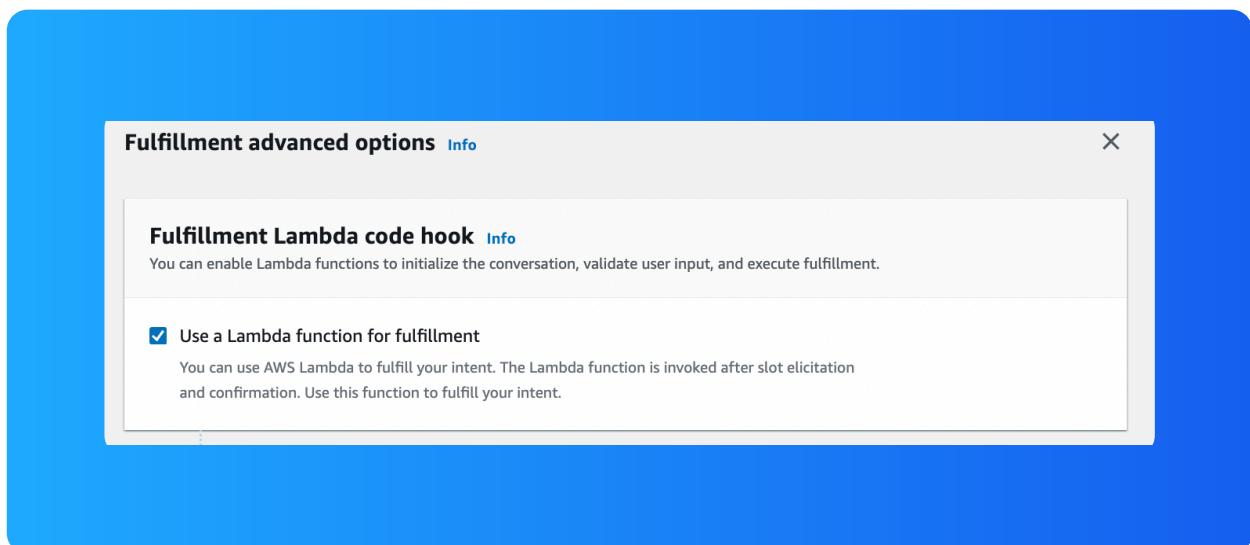


Code Hooks

Code hooks help you connect your chatbot to custom Lambda functions for doing specific tasks during a conversation.

Even though I already connected my Lambda function with my chatbot's alias, I had to use code hooks because it help me connect the chatbot to custom Lambda functions for doing specific tasks during a conversation.

I could find code hooks at the advanced options in the fulfillment panel.



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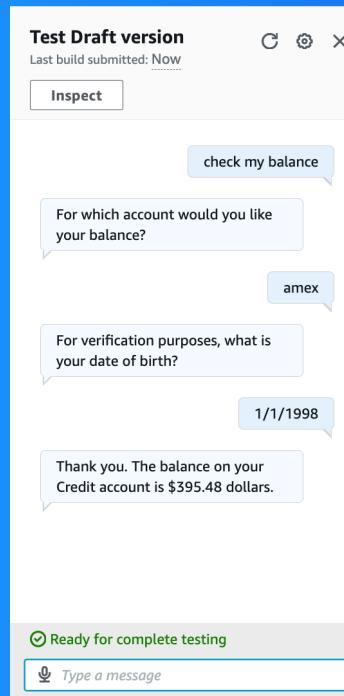
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The final result!

I've set up my chatbot to trigger Lambda and return a random dollar figure when the user asks to check for balance





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