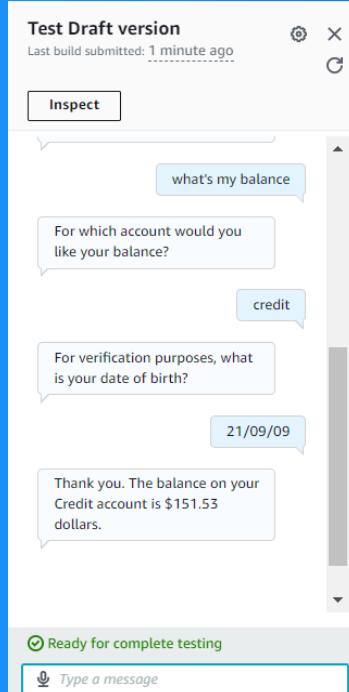




Connect a Chatbot with Lambda



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BG

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NextWork Student

NextWork.org

Introducing Today's Project!

What is Amazon Lex?

.....

How I used Amazon Lex in this project

.....

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

.....

This project took me...

.....

AWS Lambda Functions

AWS Lambda is an AWS service that helps you run code without having to manage servers.

In this project, I created a Lambda function to generate the users' bank balance. In this example, a random figure was generated, however, in the real world, the Lambda function can be used to extract the user's bank balance from a database.

The screenshot shows the AWS Lambda Function Editor interface. The top navigation bar includes tabs for Code, Test, Monitor, Configuration, Aliases, and Versions. The 'Code' tab is selected. Below the tabs, there are buttons for Go to Anything (Ctrl-P), Test, Deploy, and a status message indicating 'Changes not deployed'. On the left, there is a sidebar labeled 'Environment' with a search bar and a dropdown menu for 'BankingBotEnglish'. The main workspace displays the code for the 'lambda_function' file:

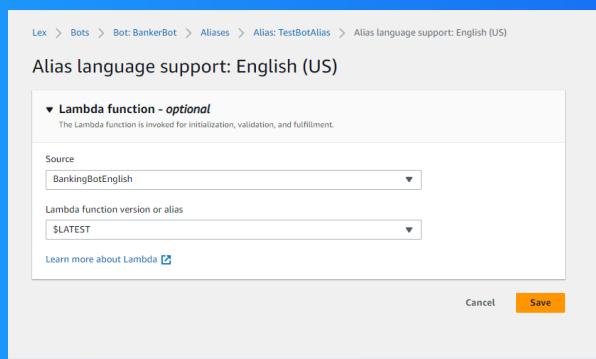
```
1 """
2 How does AWS Lambda cheer up Amazon Lex? By saying, "Don't worry, I've got your back(e)
3
4 - Nextwork :)
5 """
6 import json
7 import random
8 import decimal
9
10 def random_num():
11     return decimal.Decimal(random.randrange(1000, 50000))/100
12
13 def get_slots(intent_request):
14     return intent_request['sessionState']['intent']['slots']
15
16 def
```

Chatbot Alias

When you're connecting Lex with other AWS services or your custom applications, those external resources will connect to an alias, which will point to the specific version of your bot that you want to use

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

To connect Lambda with my BankerBot, I visited the Alias page of my chatbot and connected my TestBotAlias with the lastest version of the AWS Lamba function defined.

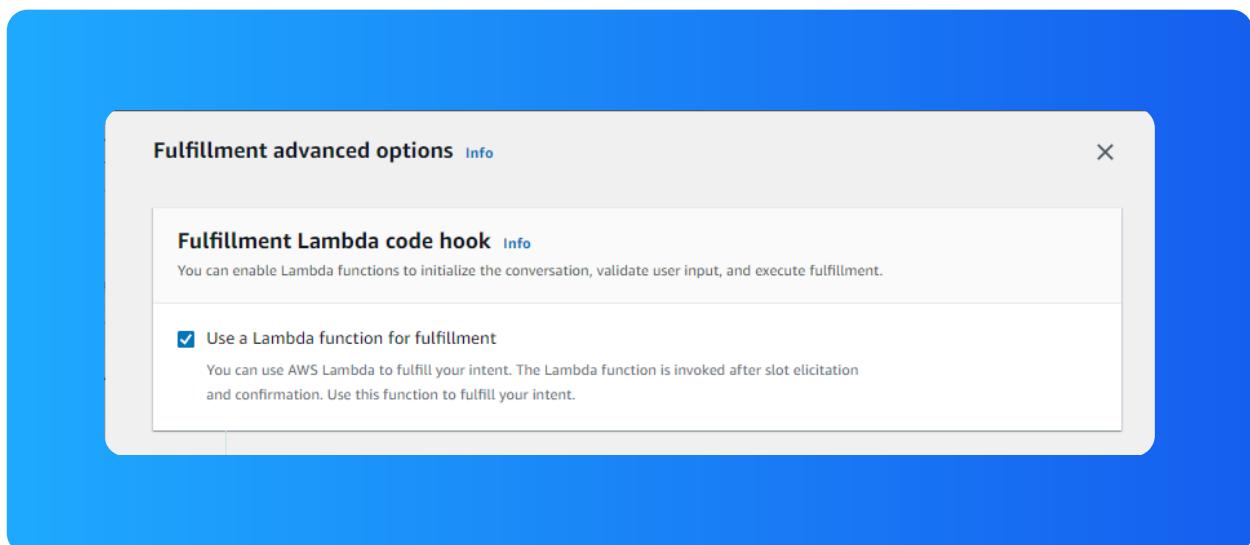


Code Hooks

A code hook is a piece of code that can be connected to my chatbot to perform functions that my chatbot cannot do alone/by default.

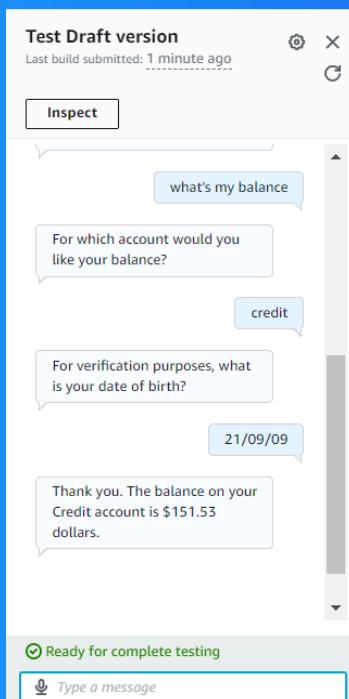
Even though I already connected my Lambda function with my chatbot's alias, I had to use code hooks because the chatbot is not able to calculate/return a bank balance figure on its own.

I could find code hooks at the Fulfilment Advanced options.



The final result!

I've set up my chatbot to trigger Lambda and return specific bank balance figures. The AWS Lambda function would generate a random number





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