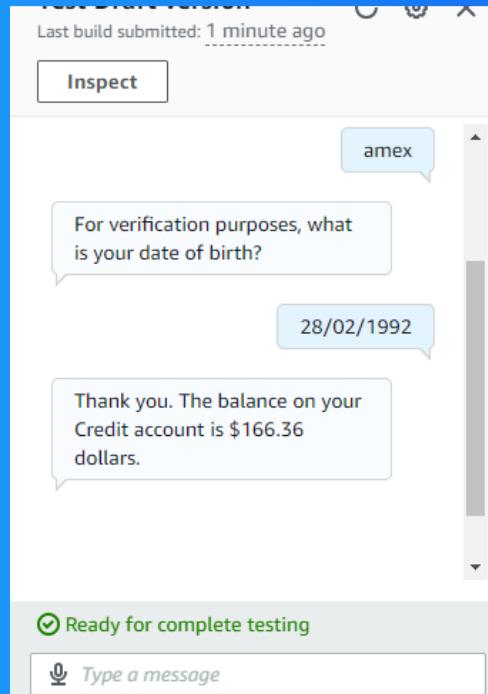




# Connect a Chatbot with Lambda



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# Introducing Today's Project!

## What is Amazon Lex?

It's a tool that lets you build chatbots and voice assistants. It's useful because it makes creating smart, conversational interfaces easy, perfect for tasks like customer service and making reservations, without needing advanced coding skills.

## How I used Amazon Lex in this project

I used Amazon Lex to create a chatbot that interacts with users, handles their queries, and connects to Lambda for advanced functionalities.

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

I didn't expect how seamlessly Amazon Lex integrates with Lambda to perform complex tasks, enhancing the chatbot's capabilities beyond basic interactions.

## This project took me...

23 mins

# AWS Lambda Functions

AWS Lambda is like a magic box for your code! You upload your function, and it runs automatically in response to eventsâæ no need for servers. It's perfect for tasks like processing data, integrating services, and building scalable apps.

In this project, I created a Lambda function to run the code, which will pick a random number to pretend it's the balance when someone ask for account balance through our chatbot

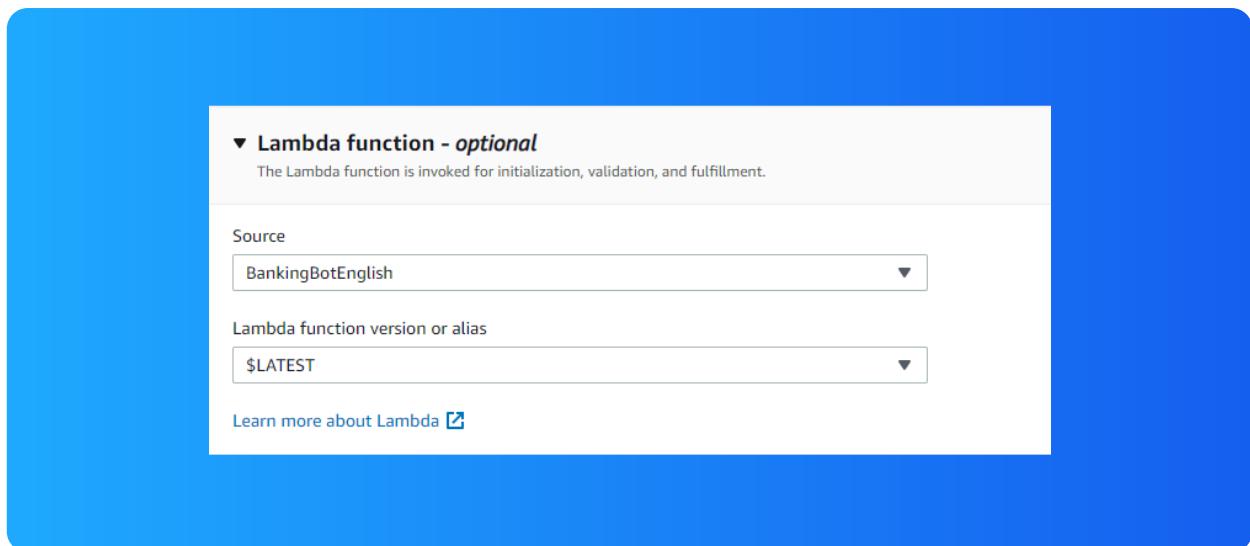
```
1 import json
2 import random
3 import decimal
4
5 def random_num():
6     return(decimal.Decimal(random.randrange(1000, 50000))/100)
7
8 def get_slots(intent_request):
9     return intent_request['sessionState']['intent']['slots']
10
11 def get_slot(intent_request, slotName):
12     slots = get_slots(intent_request)
13     if slots is not None and slotName in slots and slots[slotName] is not None:
14         return slots[slotName]['value']['interpretedValue'] 5:18 Python Spaces: 4
15     else:
16
```

# Chatbot Alias

An alias is like a nickname for your Lambda function versions. It lets you point to a specific version with a friendly name, making it easier to manage and switch between different versions without changing the function's code.

TestBotAlias is a feature used to give a unique, memorable name to a test bot in automated testing environments, making it easier to reference and manage during testing processes.

To connect Lambda with my BankerBot, I visited my bot's TestBotAlias and selected English (US) from the Languages panel. Then, I chose the Lambda function BankingBotEnglish for Source and left the Lambda function version or alias field at the default



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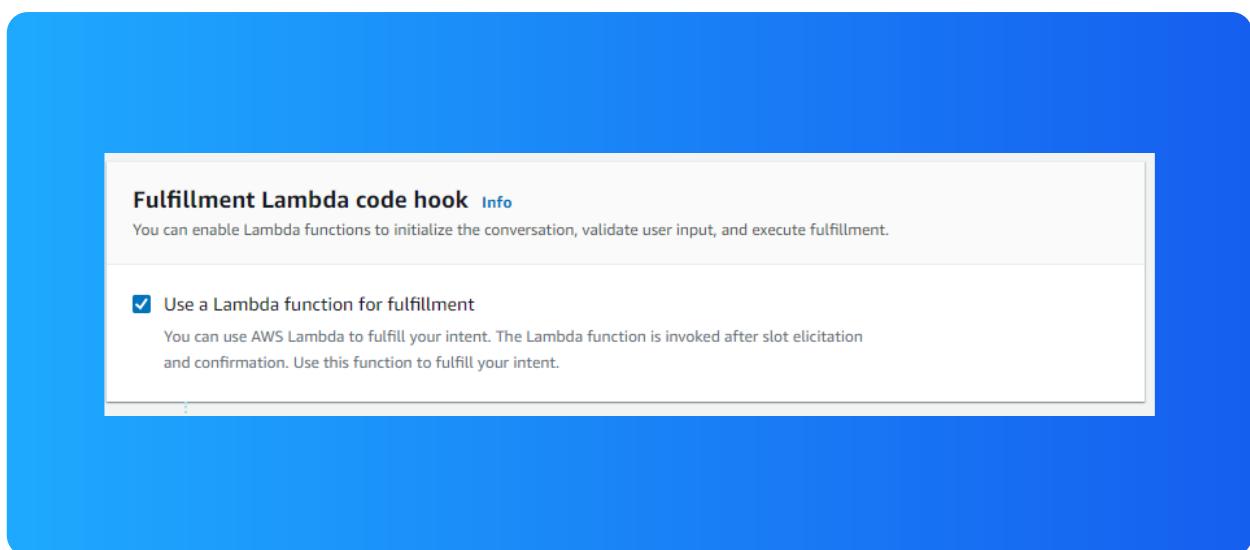
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# Code Hooks

A code hook is a function that lets you run custom logic during the processing of a bot interaction, like validating user input or fetching data, enhancing your bot's capabilities.

Even though I connected my Lambda function with my chatbot's alias, I used code hooks to handle complex actions beyond the basic setup, like checking database data or making decisions based on past conversations. Code hooks make the chatbot smarter.

I could find code hooks in the Fulfilment panel of my CheckBalance intent by expanding the On successful fulfilment bubble, choosing Advanced options, and checking Use a Lambda function for fulfilment.

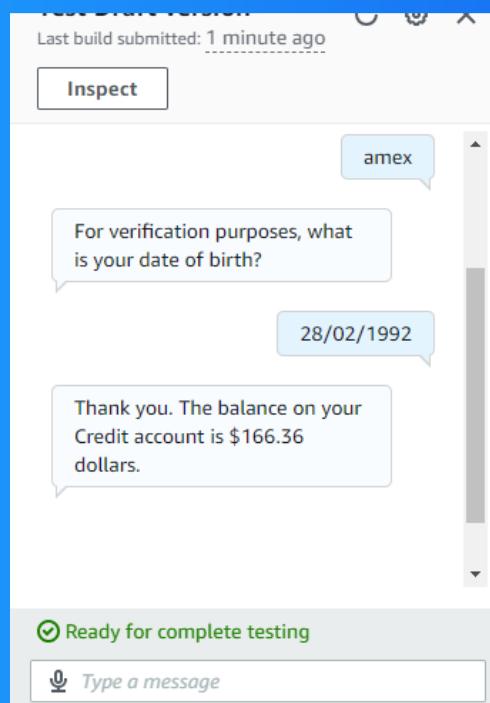


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# The final result!

I've set up my chatbot to trigger Lambda and return a random dollar figure when I ask chatbot check my balance.





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