

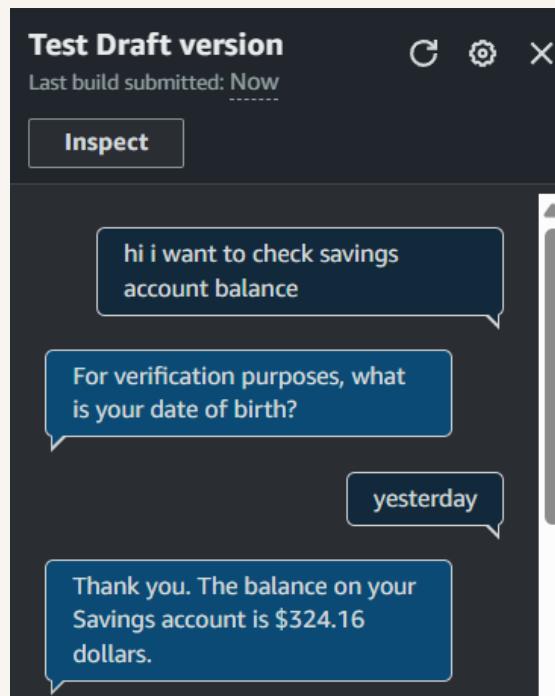


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Connect Amazon Lex with Lambda



Delvin Dsouza (dx)



A circular profile picture featuring a globe with a yellow lightning bolt icon and the letters 'DX'.

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Introducing Today's Project!

What is Amazon Lex?

Amazon Lex is really a great chat and voice bot tool and it is useful because it helps you to connect with other aws service like lambda and database.

How I used Amazon Lex in this project

In today's project, I used Amazon Lex to connect with an external aws service named lambda. and used it to create a random balance of users account.

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

One thing I didn't expect in this project was the idea of how does amazon lex knows which function it is exactly talking about what if i had multiple named function. so connection is still confusing.

This project took me...

This project took me 25 minutes



AWS Lambda Functions

AWS Lambda is a aws service where you can create your own function. that runs whenever you trigger and it is good for short term memory.

In this project, I created a Lambda function to return the user three random bank balance number. Since this is for learning purpose so creating random numbers for users balance.

The screenshot shows the AWS Lambda function editor in Visual Studio Code. The code editor displays a Python file named `lambda_function.py` with the following content:

```
10 def get_slot(intent_request, slotName):
11     slots = get_slots(intent_request)
12     if slots is not None and slotName in slots and slots[slotName] is not None:
13         return slots[slotName]['value']['interpretedValue']
14     else:
15         return None
16
17 def get_session_attributes(intent_request):
18     sessionState = intent_request['sessionState']
19     if 'sessionAttributes' in sessionState:
20         return sessionState['sessionAttributes']
21     else:
22         return {}
23
24 def elicit_intent(intent_request, session_attributes, message):
25     return {
26         'sessionState': {
27             ...
28         }
29     }
```

The Notifications bar at the top indicates "Successfully updated the function BankingBotEnglish." and "The test event "BankBot" was successfully saved." Below the code editor, the TEST EVENTS sidebar shows a selected event named "BankBot". The OUTPUT tab displays function logs for a recent request, including Request ID, Start, End, and Report details. The bottom status bar shows the current file is `lambda_function.py`, the language is Python, and the Lambda tab is active.



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Chatbot Alias

An alias is a goway to connect with other aws services. and it will point to specific version of the function. it saves time ias u dont need to update your code every time. you can just update your alias.

TestBotAlias is default version or a playground area for developmemt and testing.

To connect Lambda with my BankerBot, I visited my bot's TestBotAlias and clicked on the language then i selected my bots name and selected which version of the function i want.





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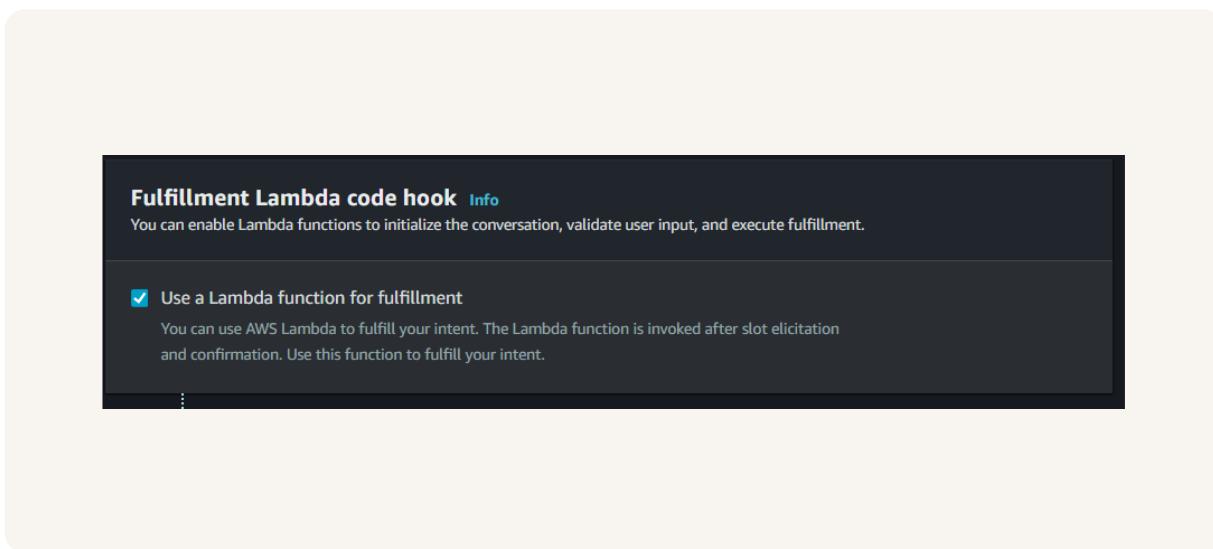
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Code Hooks

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 connects which intent and at which point the lambda function needed to be triggered.

I could find code hooks at advance option in Fulfillment Option.





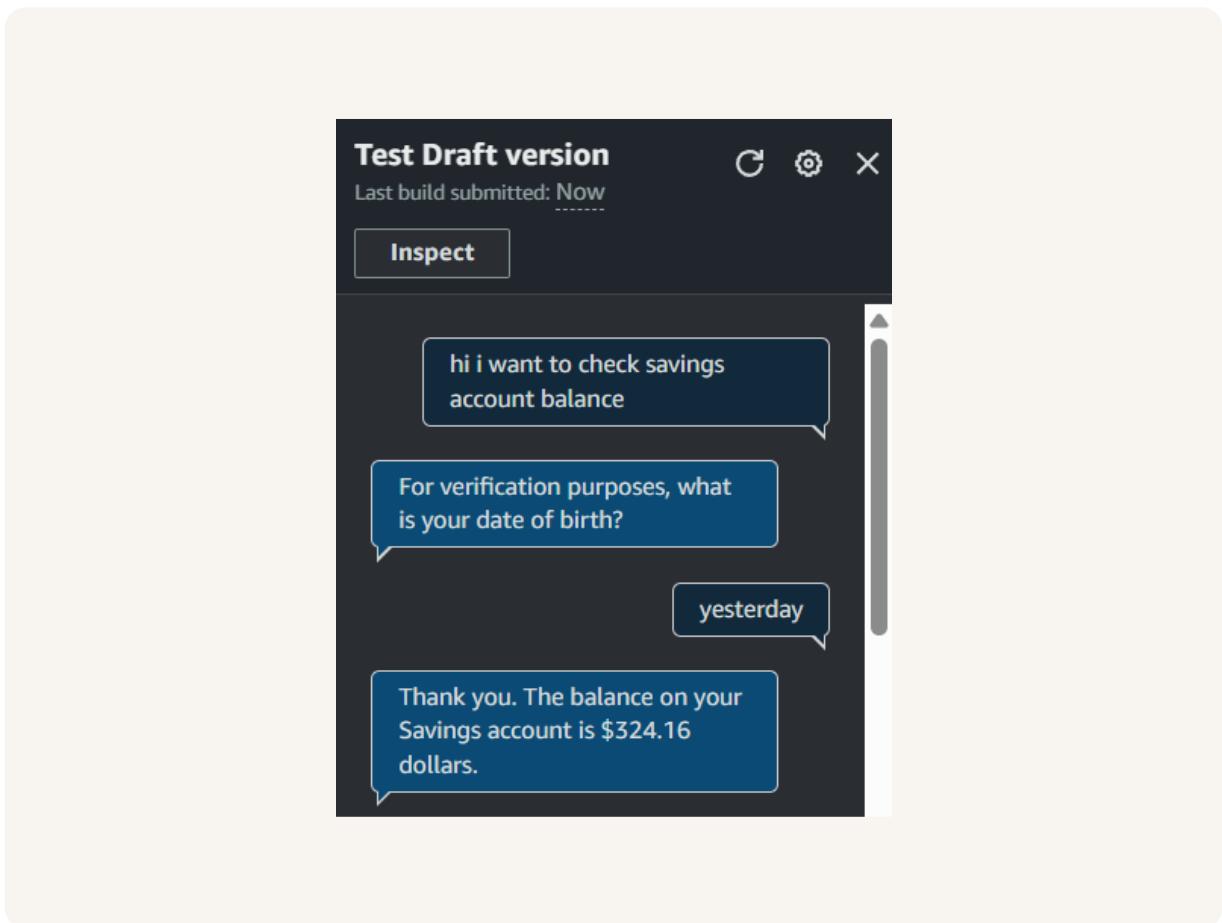
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The final result!

I've set up my chatbot to trigger Lambda and return a random dollar figure when i give the account type and a random date





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