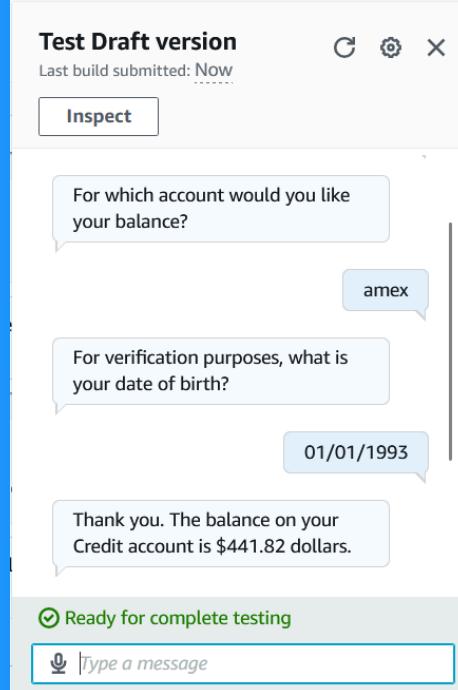




Connect a Chatbot with Lambda



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Introducing Today's Project!

What is Amazon Lex?

Amazon Lex is an AWS product that uses AI to create powerful and dynamic chatbots that can be used to enhance customer experience. This AI-powered service creates a smooth and easy experience to set-up a chatbot for applications and websites.

How I used Amazon Lex in this project

I used Amazon Lex alongside Lambda to generate a random number once the intent for Checking the Account Balance has been fulfilled.

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

I didn't expect the jump in difficulty in this project. I had to look through different panels and settings to find the page that I needed since it was my first time using the AWS Lex product.

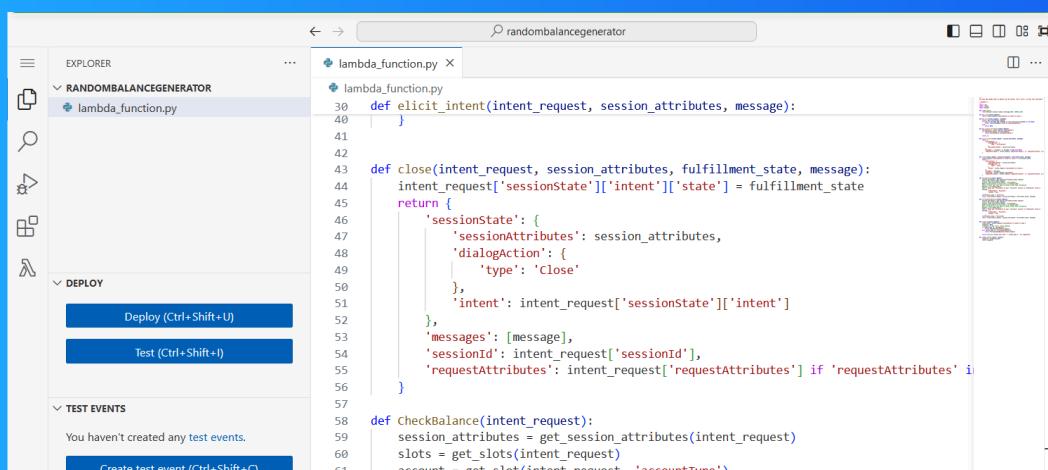
This project took me...

This project took me around 45 minutes to an hour.

AWS Lambda Functions

AWS Lambda is a service that is able to execute and run code without the need of servers. It is an event-driven and serverless function.

In this project, I created a Lambda function to generate a random number when the user asks for the Account Balance.



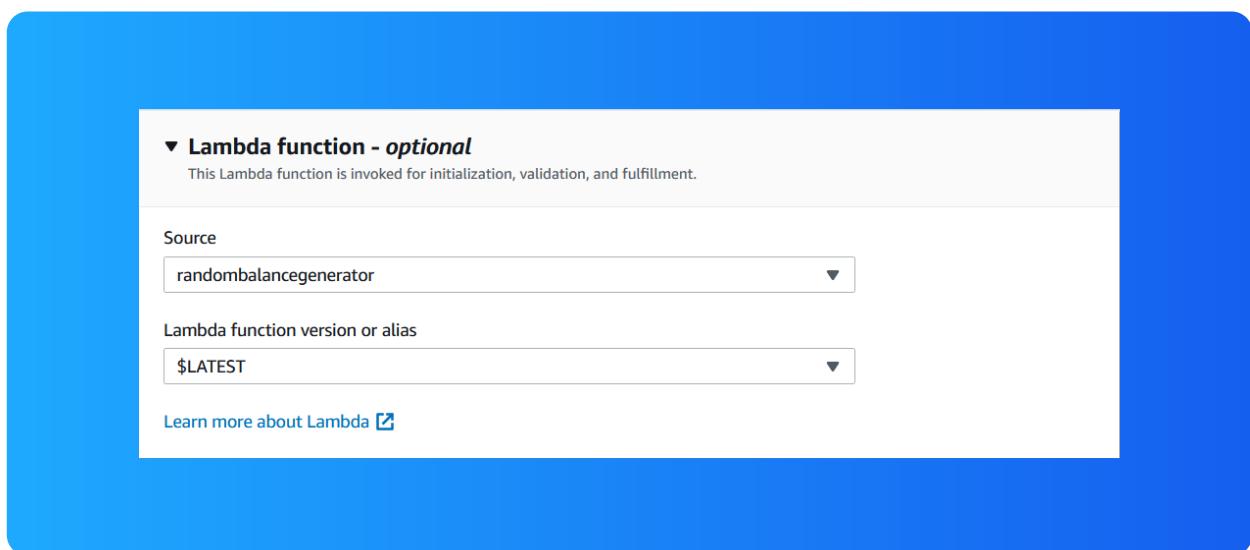
```
 30     def elicit_intent(intent_request, session_attributes, message):
 31         ...
 32
 33     def close(intent_request, session_attributes, fulfillment_state, message):
 34         intent_request['sessionState']['intent']['state'] = fulfillment_state
 35         return {
 36             'sessionState': {
 37                 'sessionAttributes': session_attributes,
 38                 'dialogAction': {
 39                     'type': 'Close'
 40                 },
 41                 'intent': intent_request['sessionState']['intent']
 42             },
 43             'messages': [message],
 44             'sessionId': intent_request['sessionId'],
 45             'requestAttributes': intent_request['requestAttributes'] if 'requestAttributes' in intent_request else {}
 46         }
 47
 48     def CheckBalance(intent_request):
 49         session_attributes = get_session_attributes(intent_request)
 50         slots = get_slots(intent_request)
 51         account = get_slot(intent_request, 'accountType')
 52
 53         # Logic to check balance based on account type
 54
 55         # Create response
 56
 57
 58
 59
 60
 61
```

Chatbot Alias

An alias is a pointer for a specific version of a service, in this case, the chatbot.

TestBotAlias is the default version of the chatbot that's made for testing or development. This can be the playground or sandbox version of the chatbot to ensure everything runs smoothly.

To connect Lambda with my BankerBot, I visited my bot's TestBotAlias, selected the language (English US), and configured the Lambda function source and version.

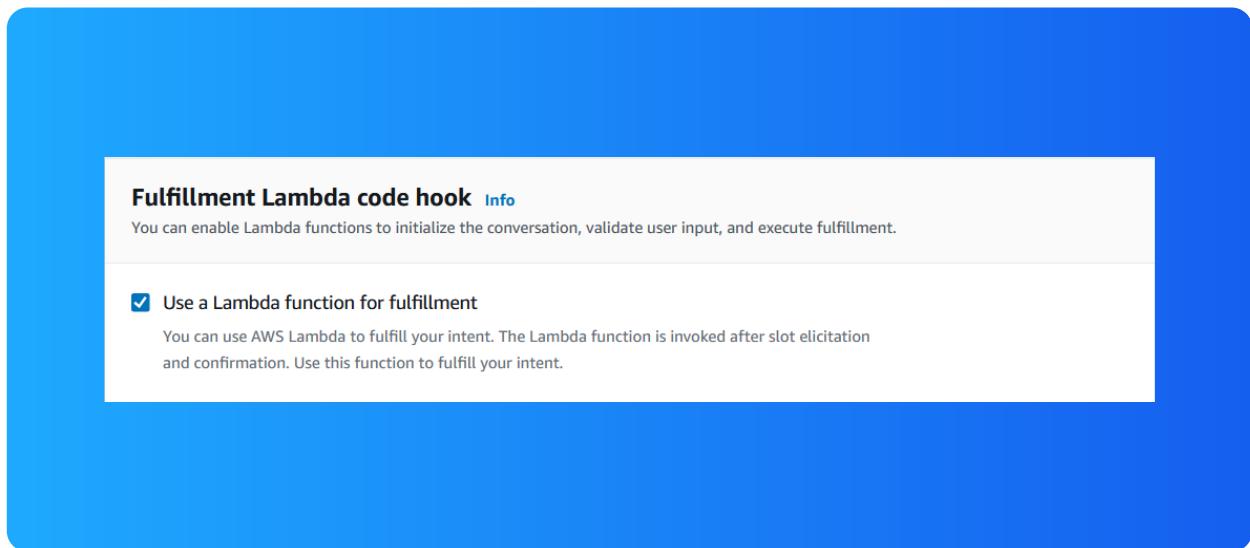


Code Hooks

A code hook is a function that helps you connect your chatbot to custom Lambda functions, which in turn does 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 the chatbot doesn't know when to use the Lambda function.

I could find code hooks at the Fulfillments bubble, under advanced options. Within it is a panel for Code Hooks.



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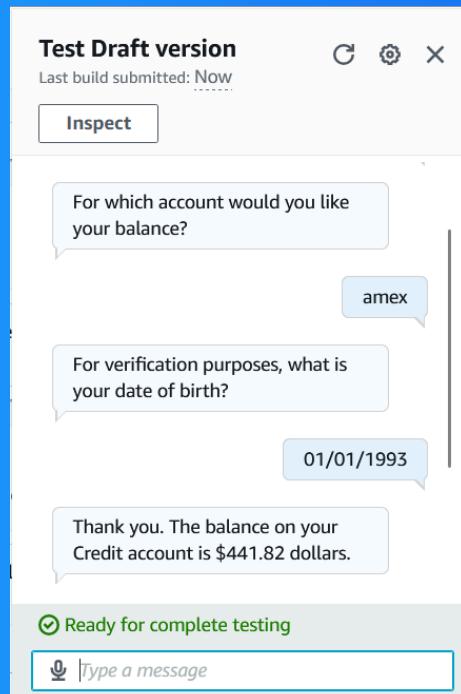
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The final result!

I've set up my chatbot to trigger Lambda and return a random dollar figure when the user's date of birth is provided. Logically, this is the fulfillment part of the Intent.





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