



Connect Amazon Lex with Lambda



mohammed Furqanuddin

The screenshot shows a test session for a draft version of an Amazon Lex bot. The session has been submitted 2 minutes ago. The conversation history is as follows:

- User: For which account would you like your balance?
- Bot: my checking account
- User: For verification purposes, what is your date of birth?
- Bot: 1/1/1998
- Bot: Thank you. The balance on your Checking account is \$422.05 dollars.

At the bottom, there is a green button labeled "Ready for complete testing" with a checkmark icon, and a text input field with a microphone icon and the placeholder "Type a message".



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Introducing Today's Project!

What is Amazon Lex?

Amazon Lex is a AWS service and it is useful because it allows us to create and customize a bot for our need.

How I used Amazon Lex in this project

In today's project, I used Amazon Lex to create a BankerBot that provides a random bank balance to the user when asked.

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

One surprising aspect of this project was discovering how simple it is to build and personalize a bot, and how I can make it as entertaining or straightforward as I want.

This project took me...

This project took me about 40 minutes to complete, including building the chatbot from scratch and finishing the documentation.

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AWS Lambda Functions

AWS Lambda is a AWS service that allows us to run code in the backend without having to provision servers!

In this project, I created a Lambda function to generate and return a random bank balance when a user asks for it!!!

```
lambda_function.py X
lambda_function.py
73 def FollowupCheckBalance(intent_request):
81     message = {
82         'contentType': 'PlainText',
83         'content': text
84     }
85     fulfillment_state = "Fulfilled"
86     return close(intent_request, session_attributes, fulfillment_state, message)
87
88
89 def dispatch(intent_request):
90     intent_name = intent_request['sessionState']['intent']['name']
91     response = None
92     # Dispatch to your bot's intent handlers
93     if intent_name == 'CheckBalance':
94         return CheckBalance(intent_request)
95     elif intent_name == 'FollowupCheckBalance':
96         return FollowupCheckBalance(intent_request)
97
98     raise Exception('Intent with name ' + intent_name + ' not supported')
99
100 def lambda_handler(event, context):
101     response = dispatch(event)
102     return response
```

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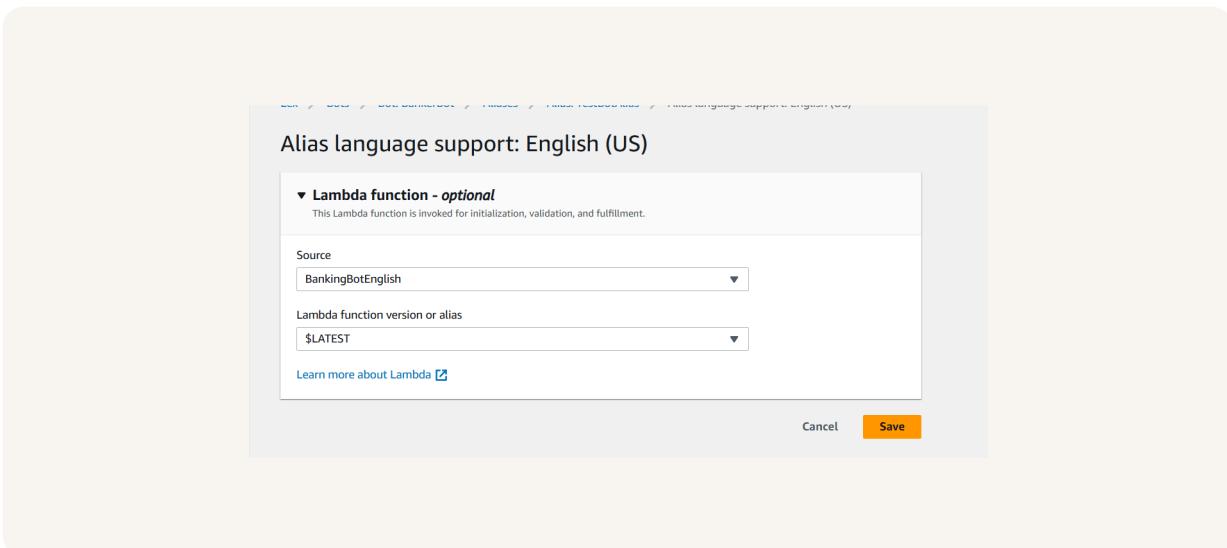
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Chatbot Alias

An alias is pointer to a version of a Bot.

TestBotAlias is a default alias used to test your Lex bot before deployment.

To connect Lambda with my BankerBot, I visited my bot's TestBotAlias and under the Language settings i was able to select the Lambda function that i created.



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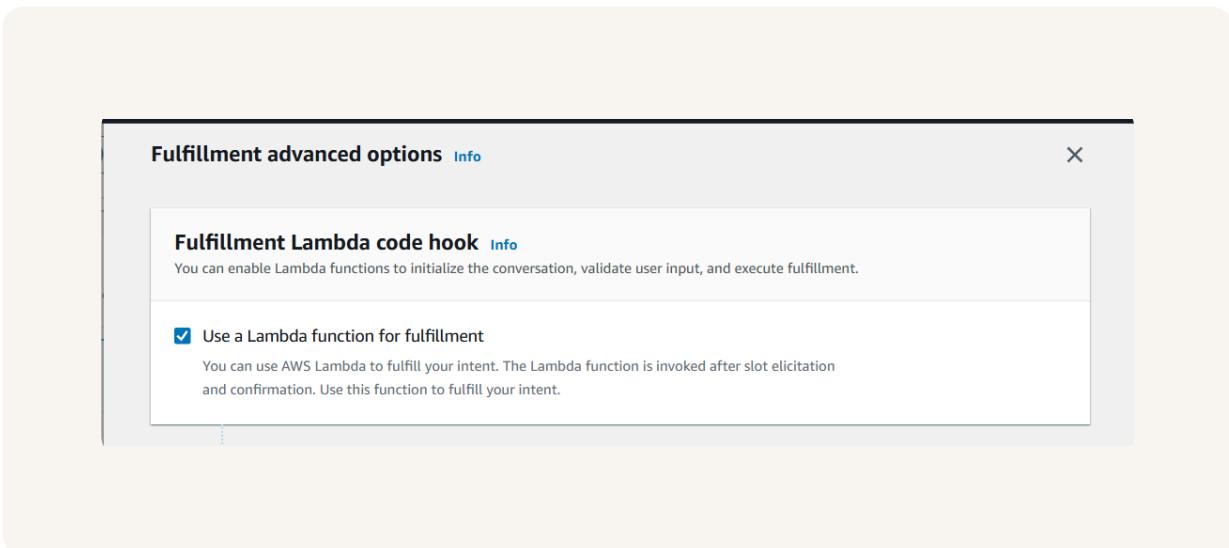
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Code Hooks

A code hook is a ways of connecting Lex to the Backend logic during conversations.

Even though I already connected my Lambda function with my chatbot's alias, I had to use code hooks so that the CheckBalance intent uses the Lambda function.

I could find code hooks at the fulfillment section of the CheckBalance.



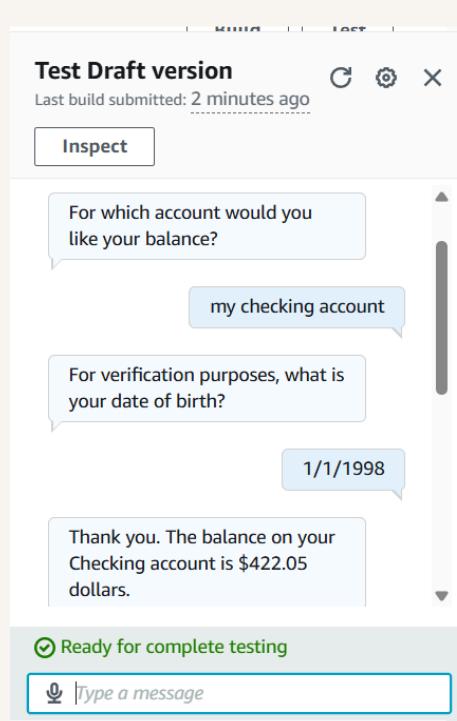
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The final result!

I've set up my chatbot to trigger Lambda and return a random dollar figure when the user provides their account type and thier DOB for verification.





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