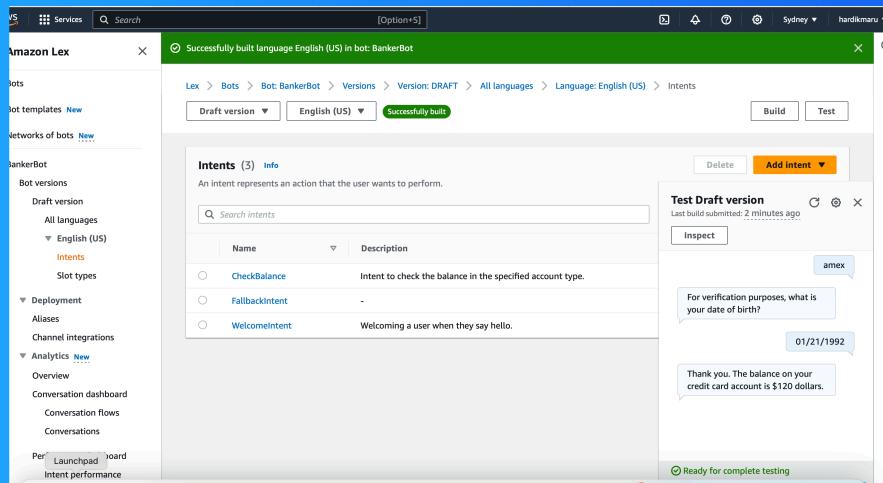




Connect a Chatbot with Lambda



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Introducing Today's Project!

What is Amazon Lex?

It provides you AI driven app development environment.

How I used Amazon Lex in this project

Amazon Lex allows developer to set specific features and functionality in your project.

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

It has limitation. It works as of the developer enhance the features for the project. You are not getting the response like GPT.

This project took me...

For this project I spent 45 minutes.



AWS Lambda Functions

Lambda provides functional services such as database integration and third-party vendor partnerships for existing products. This service enables seamless integration of external systems into your existing infrastructure.

It integrates collaborative code in any language or framework. It holds cross-functional business logic. Example: Service integration using code, integrate complex business logic as function for the communication to vendors and promotional offers.

```
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']
```

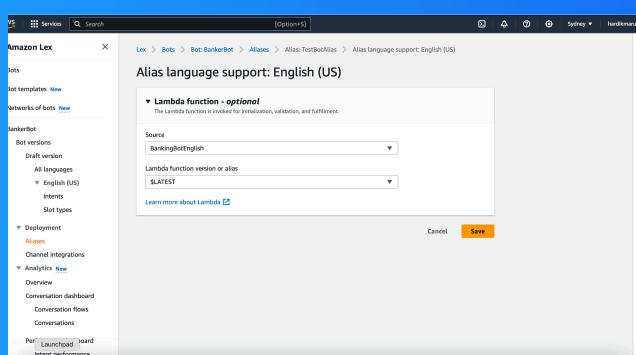


Chatbot Alias

Alias in Amazon Lex serves as a reference to a specific version of your bot.

TestBotAlias represents the default version of your bot, specifically designed for testing and development purposes.

For Source, choose your Lambda function BankingBotEnglish



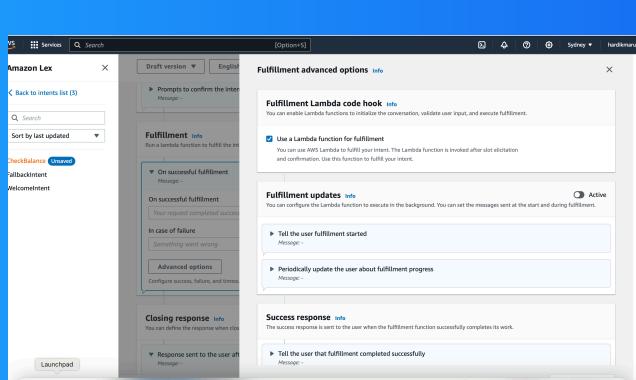


Code Hooks

In general term code hooks is one kind of the connector or create bridge chatbot to custom Lambda functions. As of the definition: Code hooks help you connect your chatbot to custom Lambda functions for doing specific tasks during a conversation.

It allows me to handle more complex actions like connection with the chatbot to custom Lambda functions.

Under the Fulfilment Lambda code hook panel, check the checkbox next to Use a Lambda function for fulfilment.





The final result!

After user respond to the their birth date.

The screenshot shows the Amazon Lex console interface. On the left, there's a sidebar with navigation links like 'Bots', 'Bot templates New', 'Networks of bots New', 'BankerBot' (selected), 'Bot versions', 'Draft version', 'All languages', 'English (US)', 'Intents' (selected), 'Slot types', 'Deployment', 'Aliases', 'Channel integrations', 'Analytics New', 'Overview', 'Conversation dashboard', 'Conversation flows', 'Conversations', 'Performance', 'Launchpad', 'Intent performance'. The main area shows a success message: 'Successfully built language English (US) in bot: BankerBot'. Below it, the 'Intents' section lists three intents: 'CheckBalance' (Intent to check the balance in the specified account type.), 'FallbackIntent' (-), and 'WelcomeIntent' (Welcoming a user when they say hello.). To the right, a 'Test Draft version' window is open, showing a conversation log. The user asks 'For verification purposes, what is your date of birth?' and the bot responds with '01/21/1992'. The user then asks 'Thank you. The balance on your credit card account is \$120 dollars.' and the bot replies with a green checkmark icon and the text 'Ready for complete testing'.



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