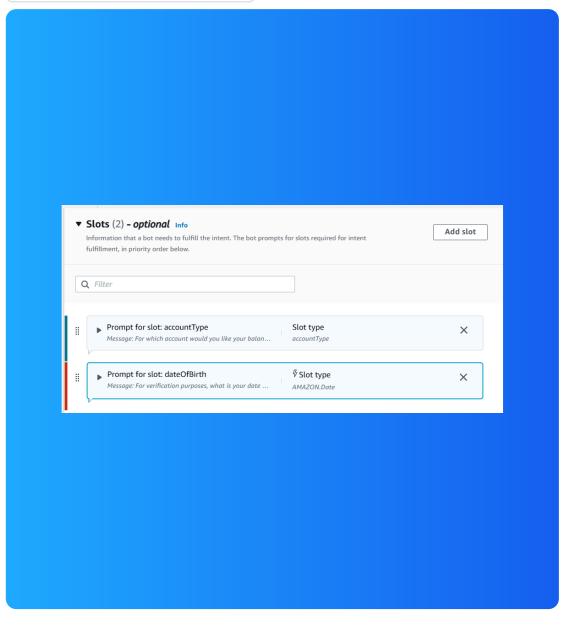
Build a Chatbot with Custom Slots





Introducing Today's Project!

I used Lex for making a basic bankingBot that greets the user and allows them to check their account type's balance through simple prompting and fallback messages.

What is Amazon Lex?

Amazon Lex is a chatbot service that is provided by AWS. This is particularly useful if you use AWS services as Lex can be very easily integrated into you other AWS services like Lamdba.

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One thing I did not expect was how robust the error handling and fallback systems were in this service.

This project took me...

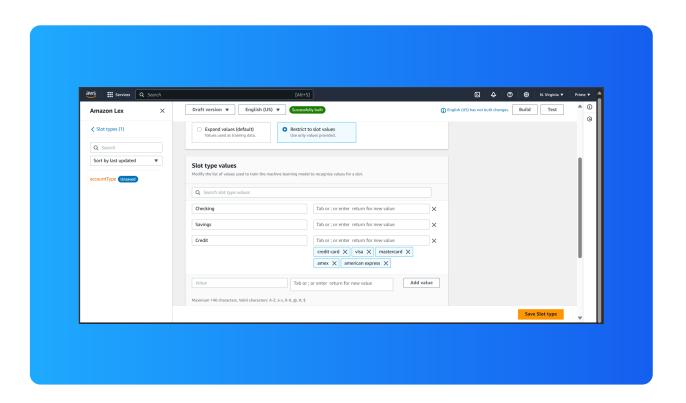
This project took me 45 minutes.

Slots

Slots are essentially pieces of information that our chatbot needs to complete a user's request. It is like blanks that need to be filled.

By adding custom slots in utterances, my chatbot's users can find out the balance in their difference accounts. The slots verify the user by automatically detecting the account type and DOB from the conversation after prompting the user.

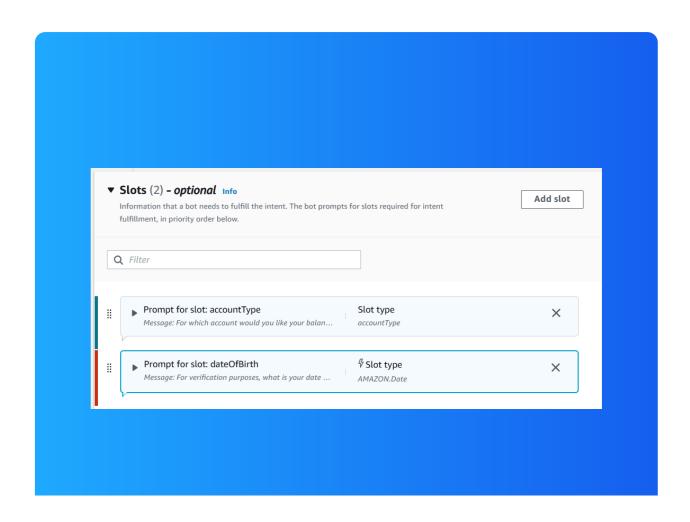
In this project, I created a custom slot type to find out the account type of the user to fullfill their bank related queries.



Connecting slots with intents

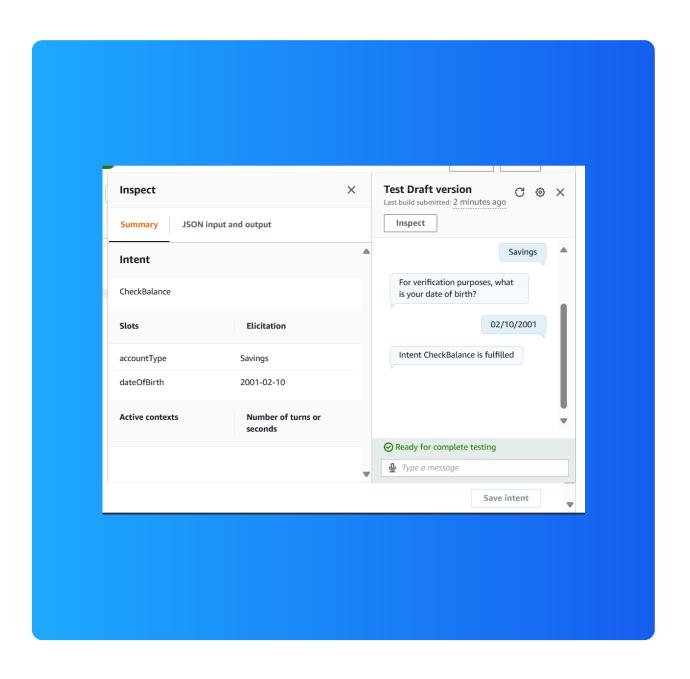
This slot type has restricted slot values, which means that we prevent Amazon Lex from using ML to respond to users with knowledge outside of our slots. This will prevent the users from talking about things we do not offer through our chatbot.

I associated my custom slot with CheckBalance, which is going to check the account balance of a user when requested. To accomplish this we link our intent with slots.



Slot values in utterances

I included slot values in some of the utterances (i.e. user inputs by using the {} sign. For example: Balance in {accountType}



Handling failures in slot values

I also used failure responses to prevent the chatbot from defaulting to the FallbackIntent and continue asking the user for their DOB. A default setting I changed was adding a Next step in the dataOfBirth slot and setting it to Elicit a slot.

