



Add Custom Slots to a Lex Chatbot



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The screenshot shows the AWS Lex Slot configuration interface. At the top, it says "Slots (2) - optional" with an "Info" link and an "Add slot" button. Below that is a "Filter" input field. The main area displays two slots:

- Prompt for slot: accountType**
Message: For which account would you like your balan...
Slot type: accountType
- Prompt for slot: dateOfBirth**
Message: For verification purposes, what is your date ...
Slot type: AMAZON.Date



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Introducing Today's Project!

In today's project, I used Amazon Lex to create a chatbot, BankerBot to collect user details for banking intents.

What is Amazon Lex?

Amazon Lex is a chatbot service that understands natural human language, allowing users to interact with the bot easily. It's especially useful for creating friendly conversations and automating support flows.

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

One thing I didn't expect in this project was how creative we can be in designing the ways in which the chatbot can interact with the users.

This project took me...

This project took me about an hour and a half to complete, including building the chatbot from scratch and finishing the documentation.

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Slots

Slots are inputs collected during a conversation with the chatbot. They help the bot gather specific details, like dates or account types, so it can complete the user's request.

By adding custom slots to utterances, my chatbot can capture inputs like savings, checking, or credit - all customized by me.

In this project, I created a custom slot type to make sure Lex accepts the account type that my imaginary bank supports.

Slot type values
Modify the list of values used to train the machine learning model to recognize values for a slot.

Search slot type values

Checking	Tab or ; or enter return for new value	X
Savings	Tab or ; or enter return for new value	X
Credit	Tab or ; or enter return for new value	X
	credit card X	mastercard X
	visa X	
	amex X	american express X

Add value

Maximum 140 characters. Valid characters: A-Z, a-z, 0-9, @, #, \$

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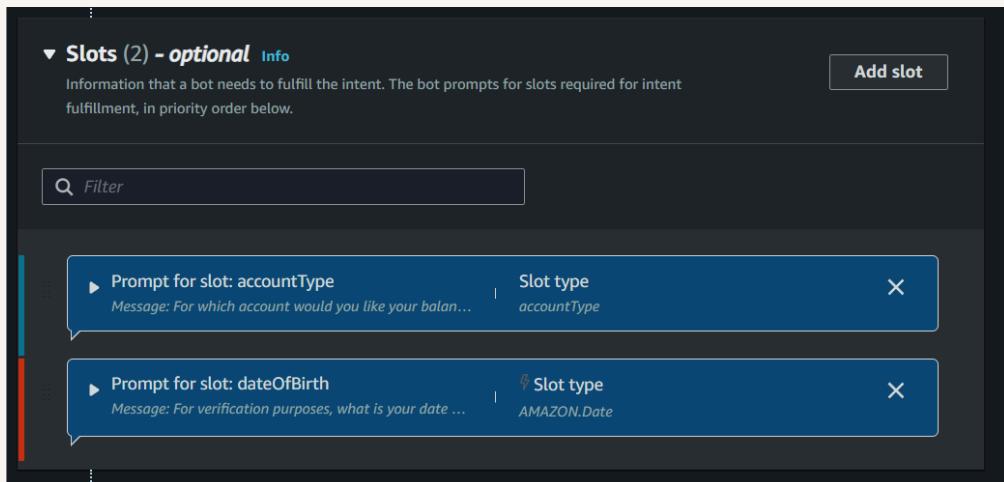
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Connecting slots with intents

This slot type has restricted slot values, which means Lex will only accept values that I defined and reject anything else.

I associated my custom slot with CheckBalance, which is an intent that collects the user data to help them check their bank balance.



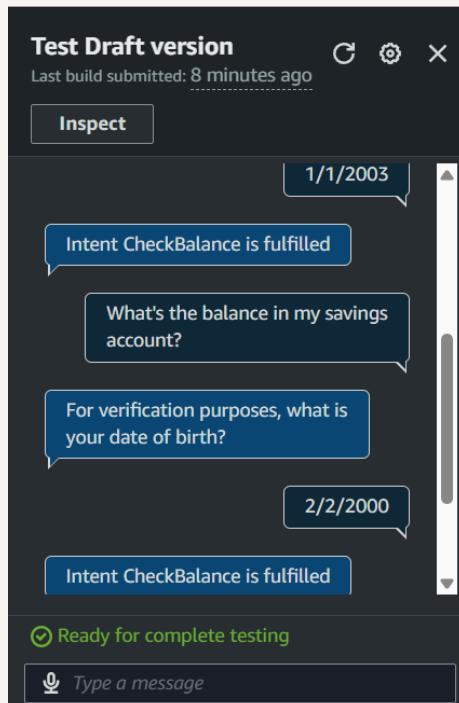
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Slot values in utterances

I included slot values in some of the utterances (i.e. user inputs) by using {} For example, What's the balance in my {accountType} account?





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