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# Add Custom Slots to a Lex Chatbot



Haochen Min

▼ **Slots (2) - optional** Info

Information that a bot needs to fulfil the intent. The bot prompts for slots required for intent fulfilment, in priority order below.

<p>▶ Prompt for slot: accountType Message: For which account would you like your balan...</p>	Slot type <code>accountType</code>	<input type="button" value="X"/>
<p>▶ Prompt for slot: dateOfBirth Message: For verification purposes, what is your date ...</p>	Slot type <code>AMAZON.Date</code>	<input type="button" value="X"/>

A circular profile picture of a young man with red hair and a brown jacket, set against a blue and white background.

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# Introducing Today's Project!

In today's project, I used Amazon Lex to add a check balance feature for 3 types of accounts and a date of birth verification.

## What is Amazon Lex?

Amazon Lex is an AWS that builds AI chat bots and it is useful because it allows customization through intents, utterances, and slots.

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

One thing I didn't expect in this project was how simple it was to set up.

## This project took me...

This project took me 20minutes.

# Slots

Slots are pieces of information a chatbot uses to complete a user's request.

By adding custom slots in utterances, my chatbot's users can immediately tell the bot what they are requesting.

In this project, I created a custom slot type because to simulate a bank chat bot, it requires information specific to that user.

**Slot type values**  
Modify the list of values used to train the machine-learning model to recognise 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	visa X
	mastercard X	
	amex X	american express X

Value       Tab or ; or enter return for new value     

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

Use slot values as custom vocabulary. [Info](#)

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# Connecting slots with intents

This slot type has restricted slot values, which means it only uses the values of the slots we've assigned it and does not accept other values.

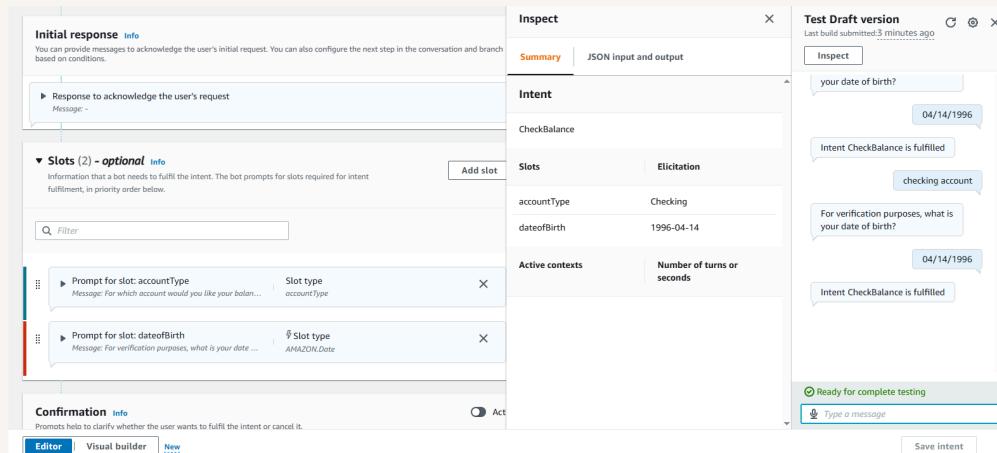
I associated my custom slot with CheckBalance, which checks if the user is requesting to check their balance in their account.

The screenshot shows a section titled "Slots (2) - optional" with a "Filter" input field. Two slots are listed:

- 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

# Slot values in utterances

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





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