



# Build a Chatbot with Custom Slots



Irfan Ansari

▼ **Slots (2) - optional** Info

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

Filter

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

Add slot



# Introducing Today's Project!

## What is Amazon Lex?

Amazon Lex is a service for building conversational interfaces using voice and text. It uses natural language processing to understand user intent and manage conversations

## How I used Amazon Lex in this project

used Amazon Lex in today's project to create a conversational interface that allows users to interact with the application via voice and text.

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

One thing I didn't expect in this project was the complexity of managing custom slot values and ensuring they accurately matched user inputs.

## This project took me...

20 minutes



# Slots

Slots are pieces of information that a chatbot needs to complete a user's request. Think of them as blanks that need to be filled in a form.

In this project, I created a custom slot type to enhance flexibility and control over the content rendered within components.

This slot type has restricted slot values, which means that only predefined options can be used within the slot.

**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
<a href="#">credit card X</a> <a href="#">visa X</a> <a href="#">mastercard X</a>		
<a href="#">amex X</a> <a href="#">american express X</a>		

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](#)



# Connecting slots with intents

I associated my custom slot with CheckBalance, which allows the system to identify and extract relevant information about a user's account balance

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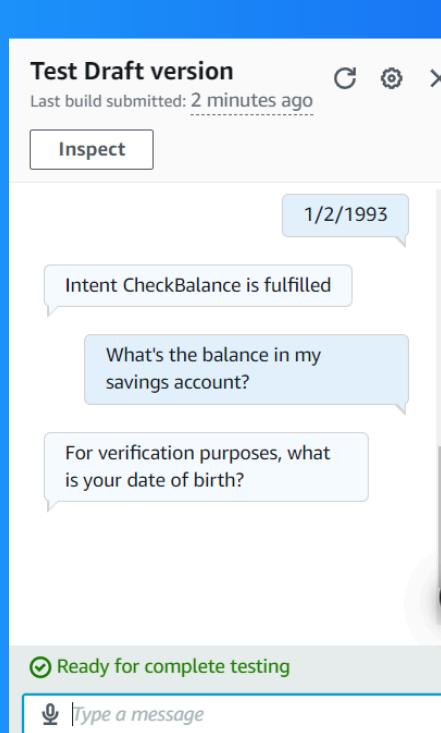
Add slot



# Slot values in utterances

I included slot values in some of the utterances (i.e., user inputs) by integrating placeholders that represent the specific slot values within the phrases. For example, I used utterances like "What is my balance for {slot\_value}?" to dynamically cap

By adding custom slots in utterances, I enabled the system to capture specific user inputs more accurately, allowing for tailored responses and improved intent recognition.





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