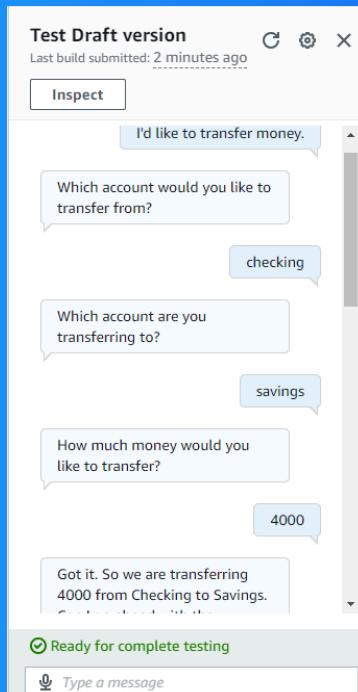




Build a Chatbot with Multiple Slots



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Introducing Today's Project!

What is Amazon Lex?

Amazon Lex is a service for building conversational interfaces using voice and text. It powers chatbots and voice apps with natural language understanding, making it easier to create intuitive user interactions.

How I used Amazon Lex in this project

I used Amazon Lex to create a custom chatbot.

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

How easy it is to build a chatbot with custom intents.

This project took me...

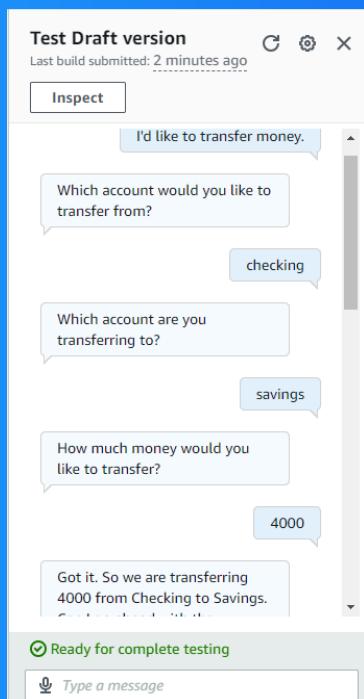
This project took me 2 hours to complete.

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TransferFunds

An intent I created for my chatbot was TransferFunds, which will transfer funds between my accounts.



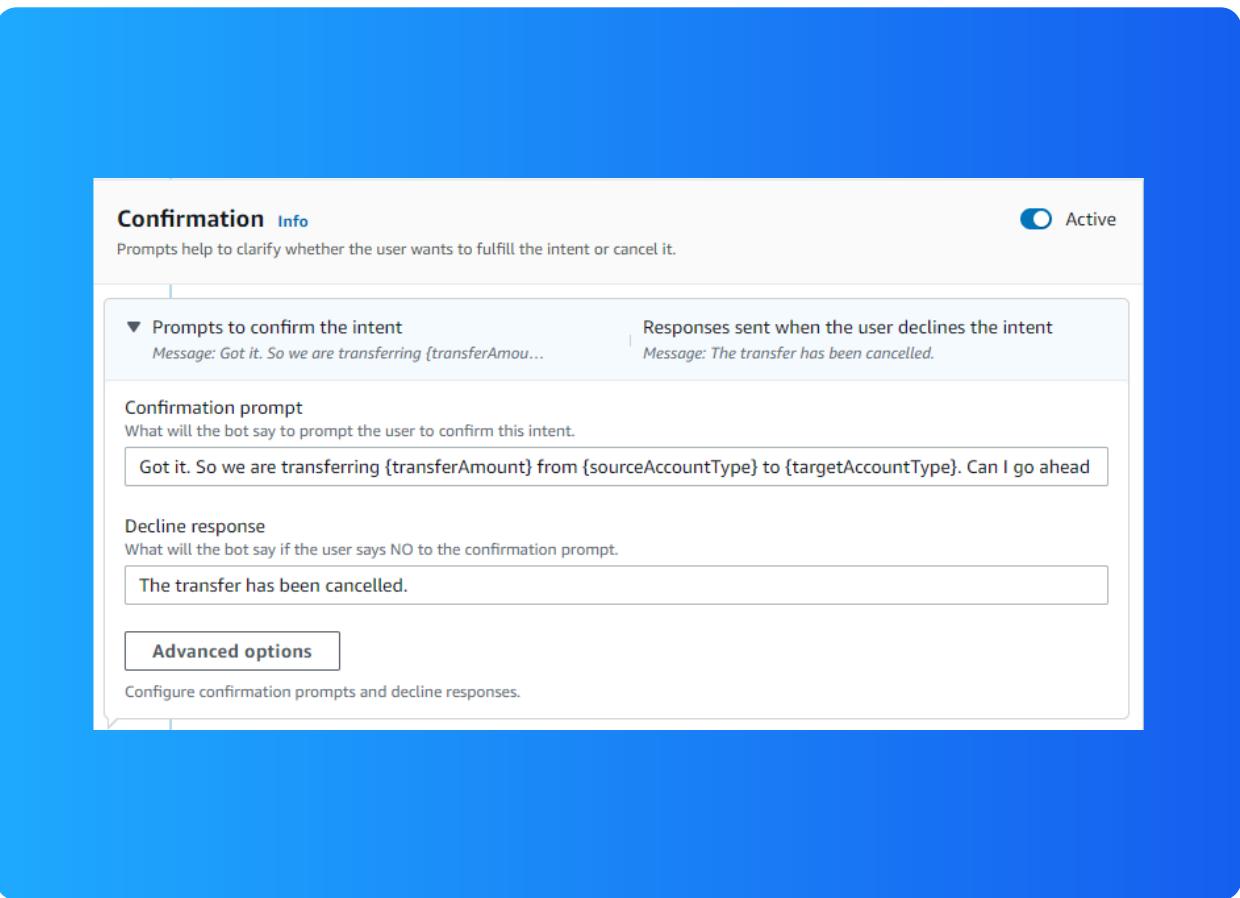
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Using multiple slots

For this intent, I had to use the same slot type twice. This is because I had to ask for source as well as target account type.

I also learnt how to create confirmation prompts, which are required to confirm certain tasks.





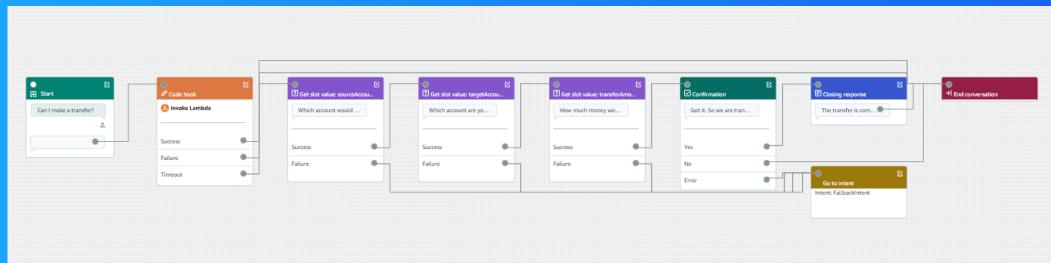
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Exploring Lex features

Lex also has a special conversation flow feature that will update as you continue editing this intent. It shows every step in a conversation in a logical, chronological order.

You could also set up your intent using a visual builder! A visual builder transforms the set up page into a flow chart.





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AWS CloudFormation

AWS CloudFormation is service that gives you an easy way to create and set up AWS resources. It is an infrastructure as code service.

I used CloudFormation to create my custom chatbot. This involved creating intents, lambda function and deploying the chatbot in seconds.

Intents (5) Info			
An intent represents an action that the user wants to perform.			
<input type="text"/> Search intents			
Name	Description	Last edited	
TransferFunds	Help user transfer funds between bank accounts	2 minutes ago	Delete
FollowupCheckBalance	Intent to allow a follow-up balance check request without authentication	2 minutes ago	Delete
CheckBalance	Intent to check the balance in the specified account type	2 minutes ago	Delete
Welcome	Welcome intent	2 minutes ago	Delete
FallbackIntent	Default fallback intent when no other intent matches	2 minutes ago	Delete



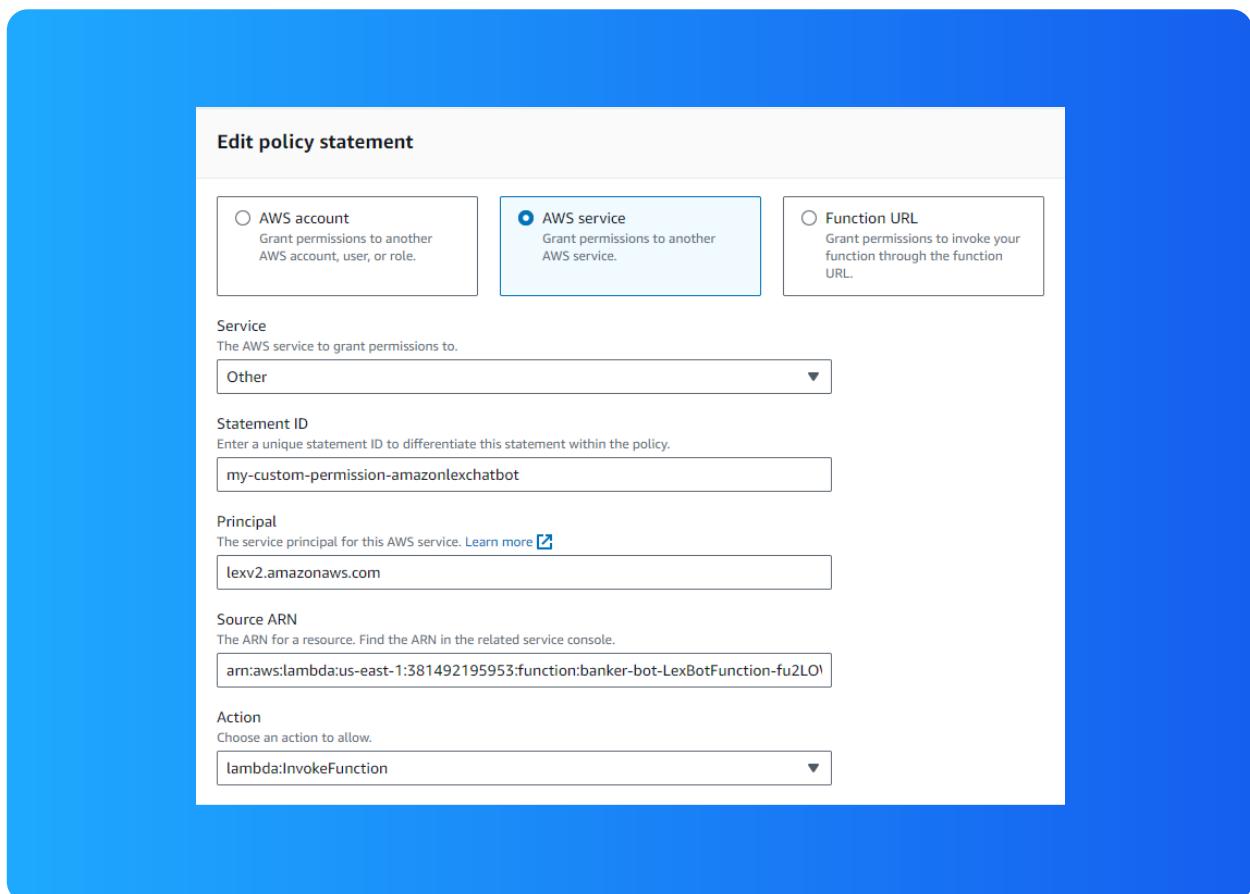
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The final result!

Re-building my bot with CloudFormation took me 10 minutes.

There was an error after I deployed my bot! The error was my Lex chatbot had no permissions to invoke lambda function. I fixed this by adding resource based policy in my lambda function.





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