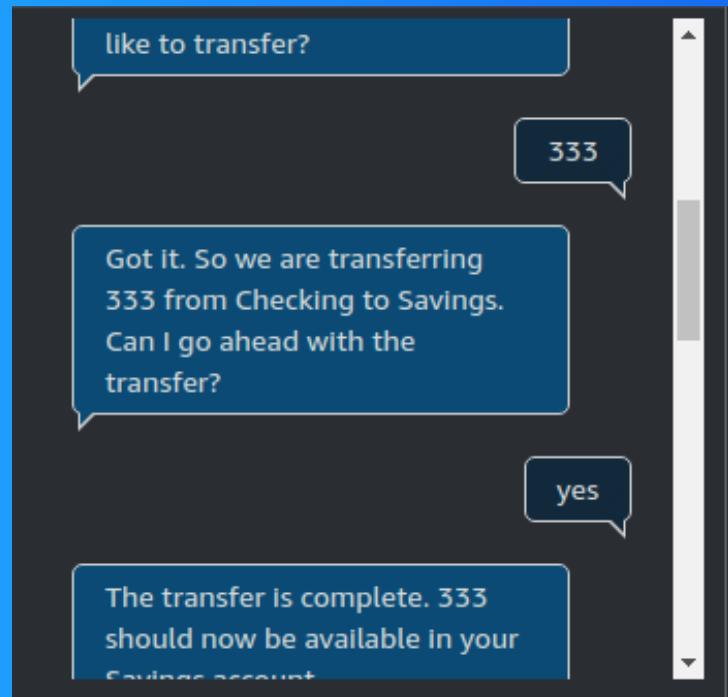




# Build a Chatbot with Multiple Slots



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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's useful for creating chatbots, virtual assistants, and automated customer support with natural language understanding and seamless AWS integration.

## How I used Amazon Lex in this project

I created an advanced chatbot that can check my bank account balance, transfer money between different bank accounts. I did it in two ways: I created it manually and using Amazon CloudFormation.

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

I didn't expect to be able to describe all my services in one file and then create them with Amazon CloudFormation in 5 minutes.

## This project took me...

This project took me about 1.5 hours.

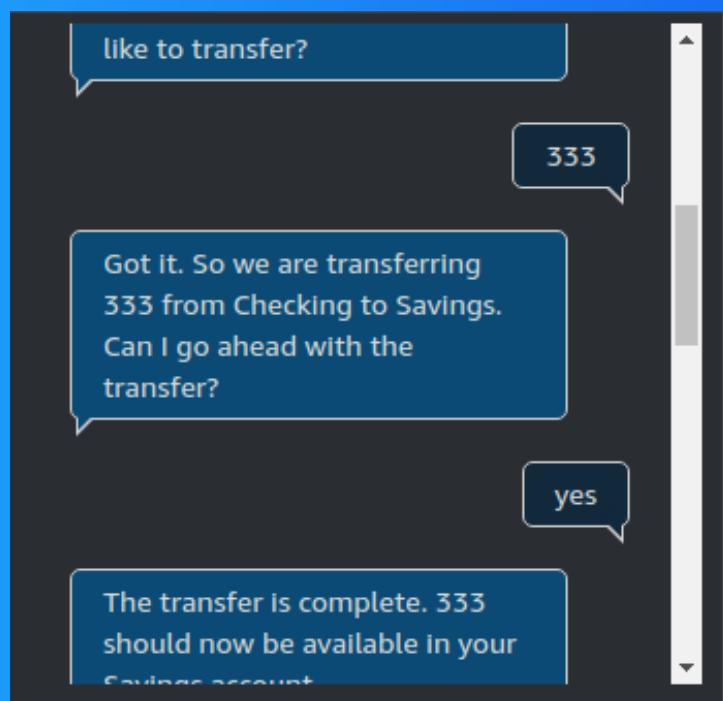
TS

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# TransferFunds

An intent I created for my chatbot was TransferFunds, which allows you to transfer some amount of money from one bank account to another.



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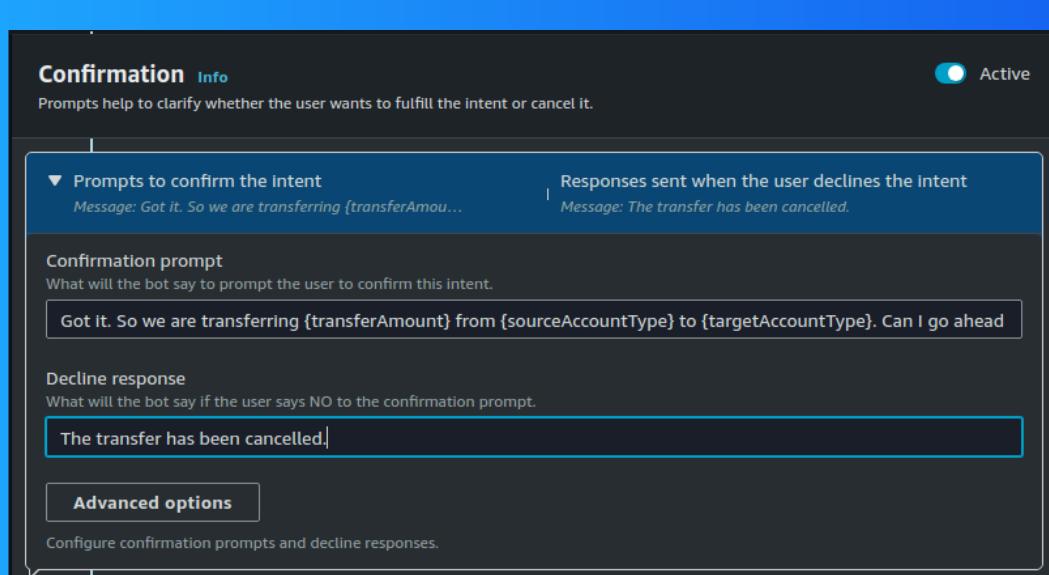
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# Using multiple slots

For this intent, I had to use the same slot type twice. This is because I had two slots with the same slot type: source and target bank account.

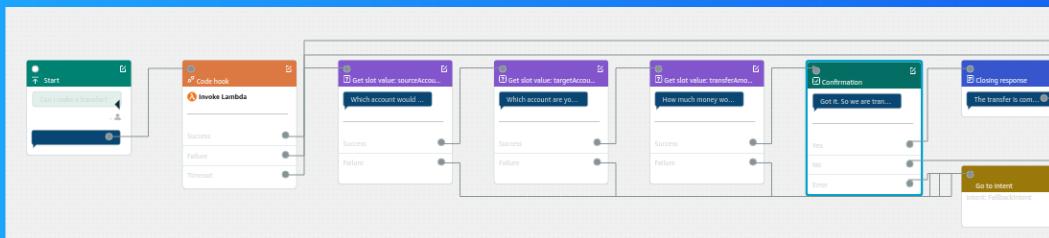
I also learnt how to create confirmation prompts, which repeat back information for the user to confirm. If the user confirms the intent, the bot fulfills the intent.



# Exploring Lex features

Lex also has a special conversation flow feature that 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 us a visual representation of the intent.



# AWS CloudFormation

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

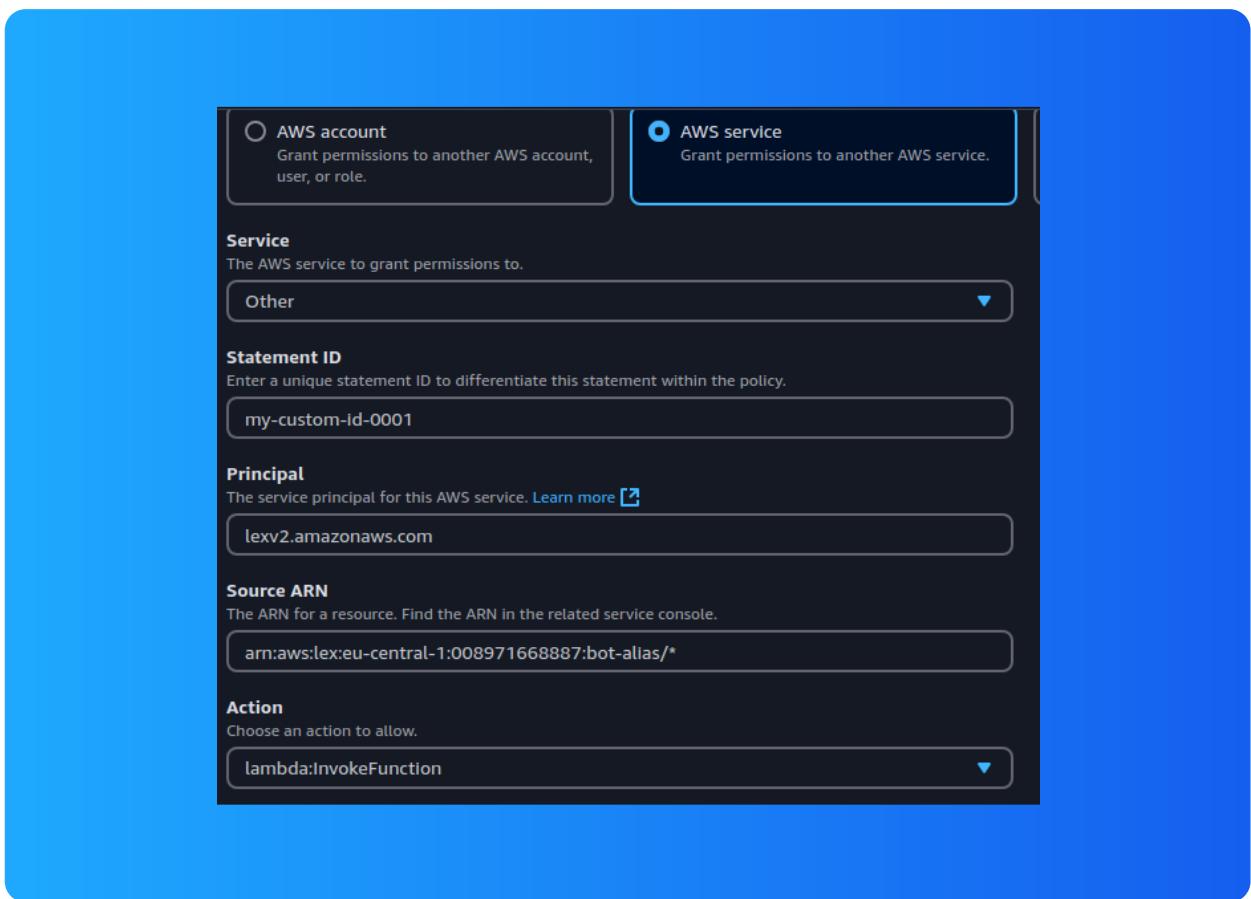
I used CloudFormation to deploy BankerBot in seconds.

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

# The final result!

Re-building my bot with CloudFormation took me only 3 minutes, provided I had a configuration file.

There was an error after I deployed my bot! The error was a 'denied access' error. I fixed this by creating a new 'Resource-based policy statement' that gives my chatbot aliases access to my lambda function.





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