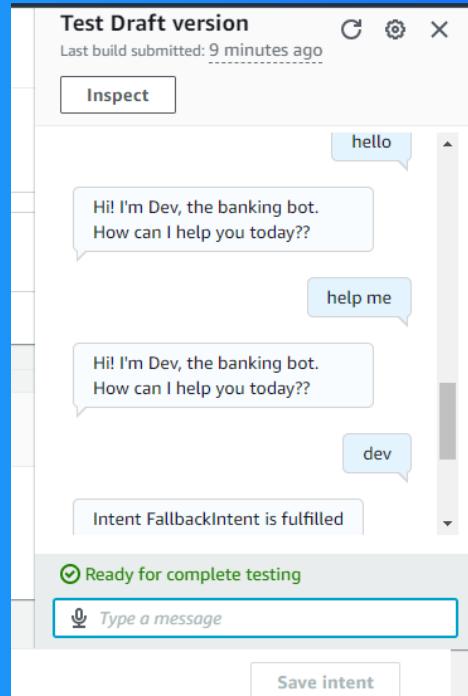




# Build a Chatbot with Amazon Lex



DEVA TELAGAREDDY



# Introducing Today's Project!

## What is Amazon Lex?

Amazon Lex is a service that helps you create chatbots and voice bots with ease, using advanced language understanding and speech recognition to build engaging, interactive experiences for your users.

## How I used Amazon Lex in this project

I used Amazon Lex in today's project for creating a chat bot.

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

One thing I didn't expect while creating a basic chatbot with Amazon Lex was how easy it was to set up, but I was surprised by the effort needed to think of all the different ways users might ask questions.

## This project took me...

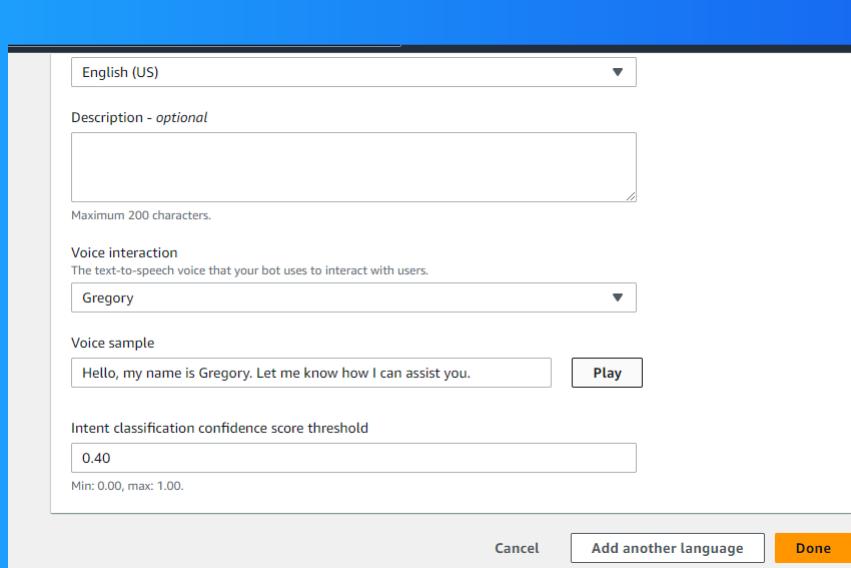
The project took me around a hour to complete

# Setting up a Lex chatbot

I created my chatbox from scratch with Amazon Lex. Setting it up took me about 5 minutes ,It's possible to do in less time but i was trying to use a voice i really liked

While creating my chatbot , I also created a role with basic permissions because when integrating Amazon Lex with other AWS services like Lambda, you need to grant Lex the appropriate permissions to invoke Lambda functions on your behalf

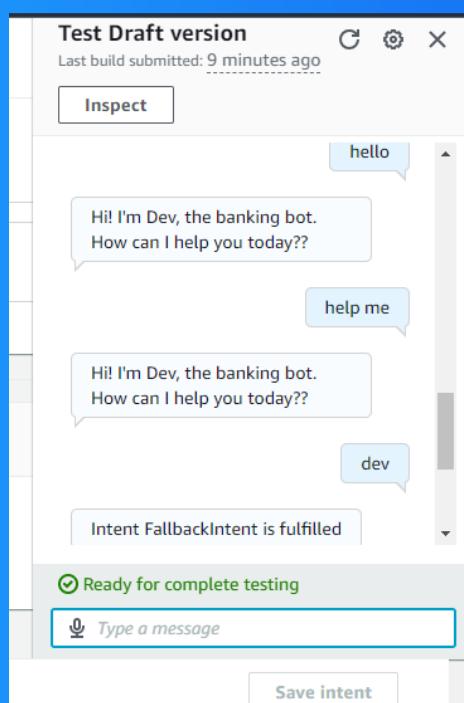
In terms of the intent classification confidence score, I kept the default value of 0.40. This means that the chatbot should be atleast 40 % confident that it understands what the user is asking to be able to give a response



# Intents

Intents are, what the user wants to accomplish, such as ordering food, booking a flight, checking the weather, etc.

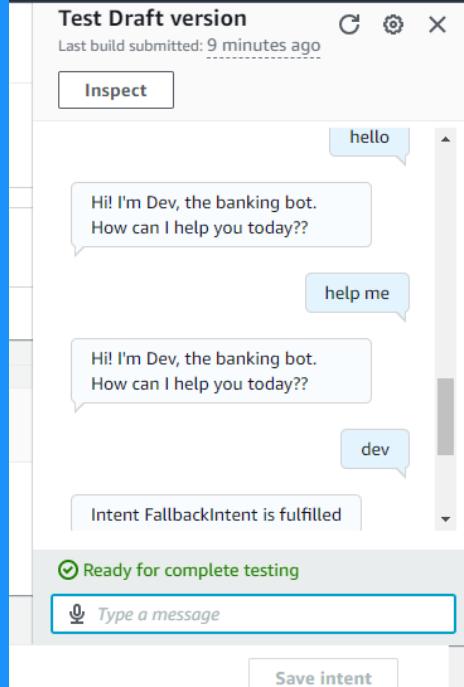
I created my first intent, WelcomeIntent, to welcome user when they say hello.



# FallbackIntent

I launched and tested my chatbot, which could respond successfully if I enter "hi", "hello", "I need help", "Can you help me".

My chatbot returned the error message 'Intent FallbackIntent is fulfilled' when I entered... This error message occurred because I entered a user query that did not match any defined intents or the provided sample utterances for the bot.





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# Configuring FallbackIntent

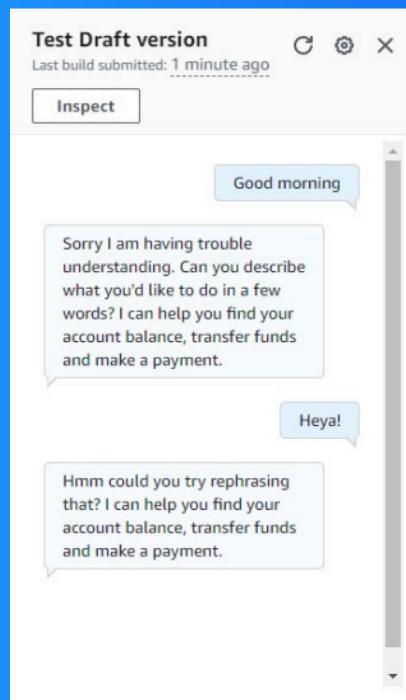
FallbackIntent is a default intent in every chatbot that gets triggered when the bot cannot match the user's input to any of the defined intents.

I wanted to configure FallbackIntent because it ensures that when the bot encounters an input it doesn't recognize or cannot match to any existing intents, it can still respond appropriately.

# Variations

To configure FallbackIntent, I defined sample utterances for unrecognized inputs, set up responses to guide users, and tested the intent to ensure it triggers appropriately when no other intents match.

Variations are simply different ways of saying the same thing that Amazon Lex uses to keep responses fresh and natural. When it needs to give a fallback reply, it picks one of these variations at random to make the conversation feel more engaging.





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