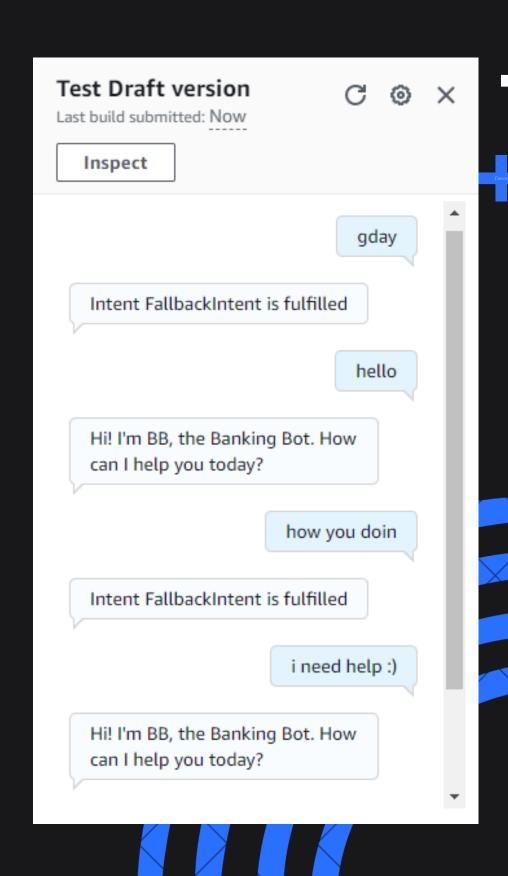
How madea chatbot with Amazon Lex





What is Amazon



Lex?

What it does:

• Amazon Lex V2 is an AWS service for building conversational interfaces for applications using voice and text.

Why it's useful:

 It can help with FAQs and save a lot of manual effort. Build conversational bots quickly with low to no code.

How I'm using it in today's project:

 In this project I'm using Amazon Lex to create BankerBot, a conversational bot geared towards helping someone have a conversation to interact with a bank teller bot.







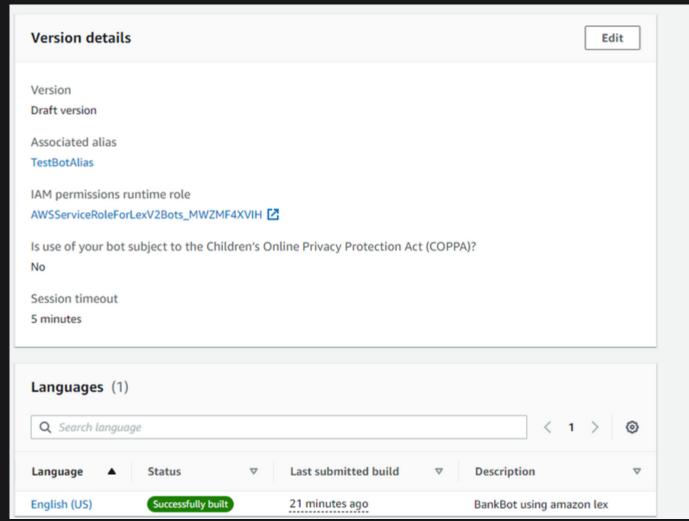
STEP ONE



Set up a Lex chatbot



- I created BankerBot from scratch and used most default settings on Lex.
- In terms of the **intent classication confidence score**, I kept the default value of 0.40. What this means for my chatbot is at least 40% confident that it understands what the user is asking to be able to give a response.





[Your Full Name]

@yourGitHubrepo (if you have one)



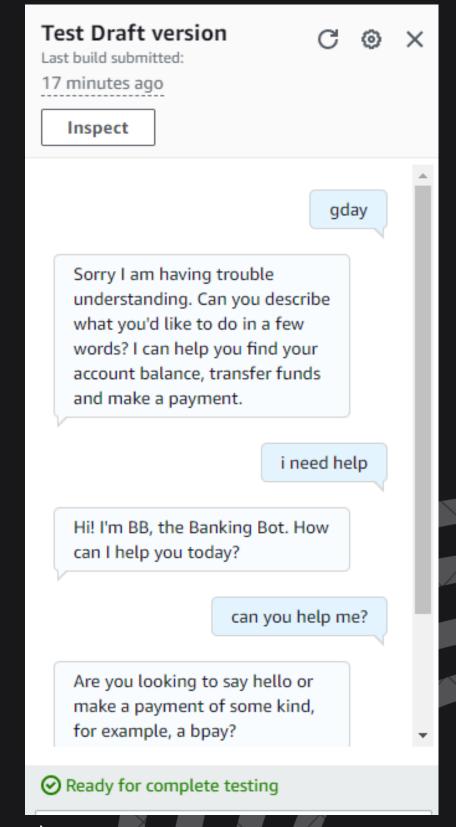


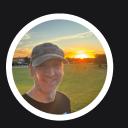
STEP TWO

Create

an intent in Lex+

- Intents are what the user is trying to achieve in their conversation with the chatbot.
- My first intent, WelcomeIntent, was created to welcome a user when they say hello
- To set up this intent, I added sample utterances to help invoke the above intent
- I launched and tested the chatbot, which could still respond if I enter something other than the sample utterances i entered
- However, the chatbot returned the error message "Intent FallbackIntent is fulfilled" when I entered I need help or can you help me?
- This error message occured because lex doesnt quite recognise the utterance





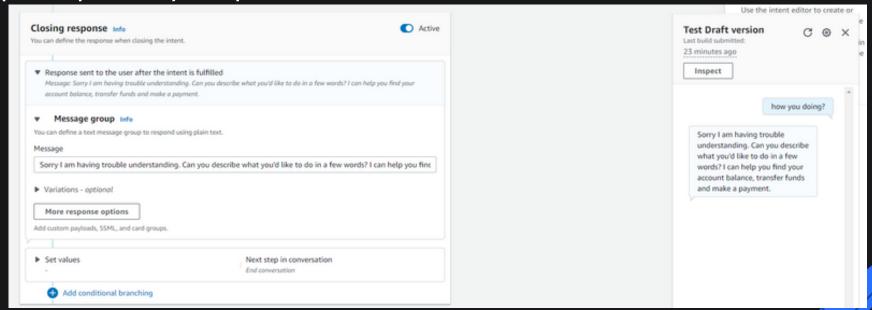
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STEP THREE

Manage FallbackIntent

- FallbackIntent is a default intent in every chatbot that When a user's input to an intent isn't what a bot expects, you can configure Amazon Lex V2 to invoke a fallback intent
- I wanted to configure FallbackIntent because my classification score threshold is low so any errors will be answered by the fallback intent
- To configure FallbackIntent, I had to add my fallback intent response to the closing response
- I also added variations! What this means for an end user is they will be prompted by responses that will seem more conversational









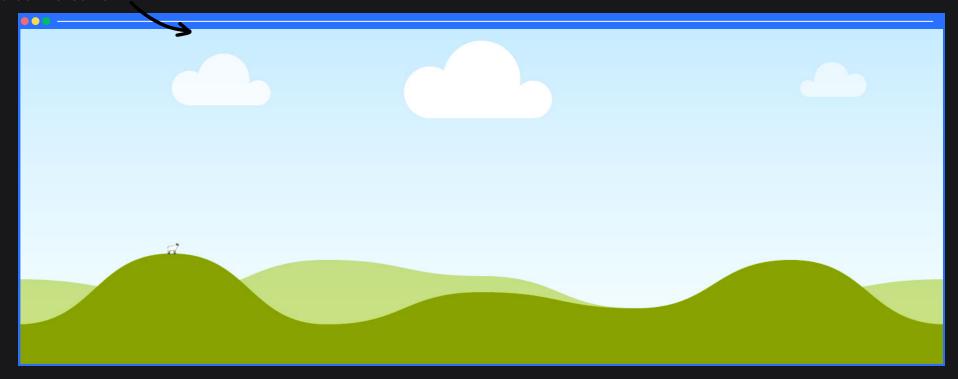
STEP FOUR



Use custom slots

- Slots are...
- In this project, I created a custom slot to...
- I then associated the custom slot with a new intent, CheckBalance, which... [explain the purpose and function of CheckBalance]
- I included slot values in some of the utterances (i.e. user inputs) for this intent too. For example...

Slot values getting recognised during a conversation







STEP FIVE

Canata

Connect

Lambda with Lex

- AWS Lambda is...
- In this project, a Lambda function was created to...
- There were two steps to connect the Lambda function with my chatbot:
- 1 To connect Lambda with my chatbot alias, I...
- 2 Another intent setting to configure is **code hooks**.
- A code hook...
- In this project, I had to use code hooks because...

My chatbot now returns a bank balance number thanks to Lambda!







STEP SIX

Context Carryover

- The next intent I created was FollowupCheckBalance, which was designed to...
- Context carryover means...
- Context carryover was required for this intent because...
- To implement this I...
- The outcome was...

carries over the user's date of birth



[Your Full Name]

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STEP SEVEN

Conta

More slots!

- The final intent was TransferFunds, which will...
- For this intent, I had to use the same slot type twice. This is because...
- I also learnt how to create confirmation prompts, which... [explain what confirmation prompts do, and how you implemented it for this intent]

A conversation demonstrating the two slots and the confirmation prompts in action!





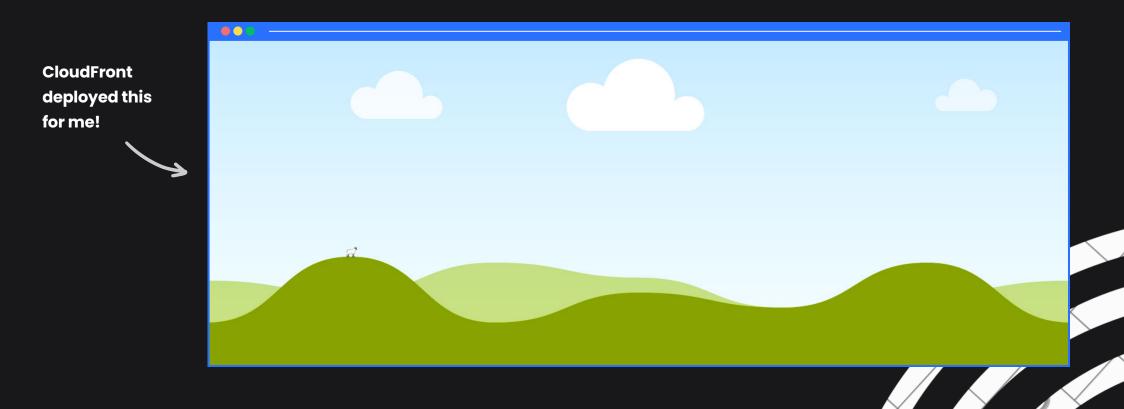


Deploying with CloudFormation

[DELETE THIS TEXT BOX]
Add this slide if you decide to take on the secret extra mission! 3

Something I learnt from deploying with CloudFormation

was...







My Key Learnings



- Explain Amazon Lex in your own words, 1-2 sentences is enough!
- What are intents?
- When do you need to connect Amazon Lex with AWS Lambda?
- What does context carryover mean and why would you use it?
- Was there anything else you've learnt from this project 😉 e.g. custom slots











- Delete EVERYTHING at the end! Let's keep this project free :)
- Now that I know how to use Lex, in the future I'd use it to...
- One thing I didn't expect was...
- An area of Lex I'd like to explore further is... e.g. visual editor, connecting your chatbot to an application/database, other types of responses that you could use when setting up an intent (such as acknowledge intent, slot capture success/failure response)











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