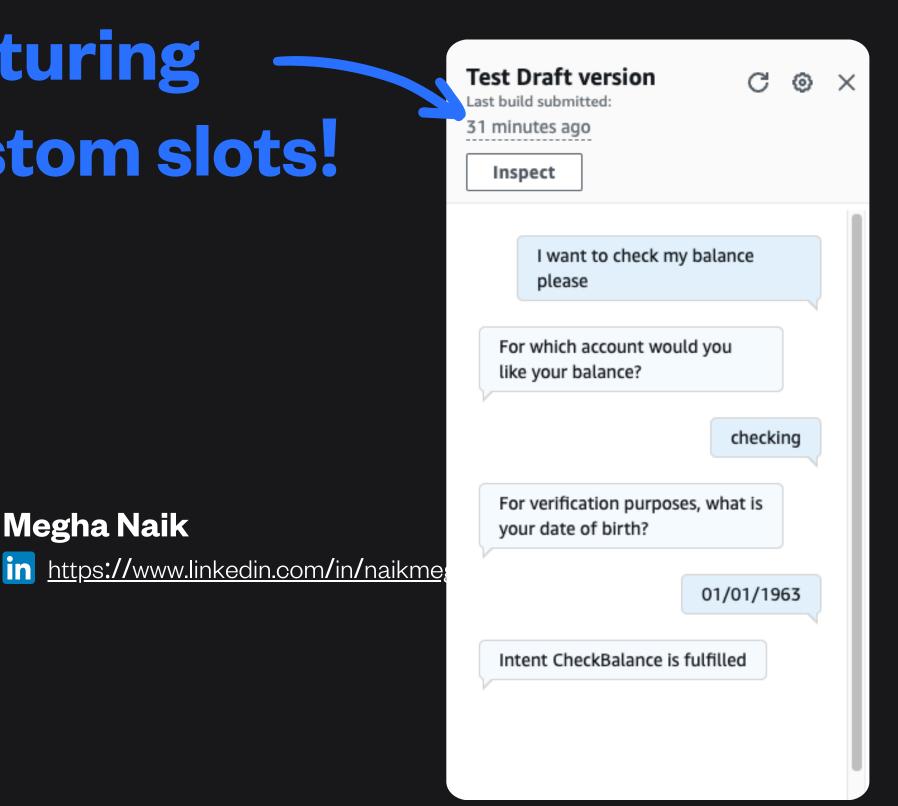
How I built a chatbot with Amazon Lex

featuring custom slots!

Megha Naik



What is Amazon Lex?

What it does:

• It helps you build Voice and Text Chatbots in minutes.

Why it's useful:

• It will save a lot of time for a business or a service and can be personalized

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

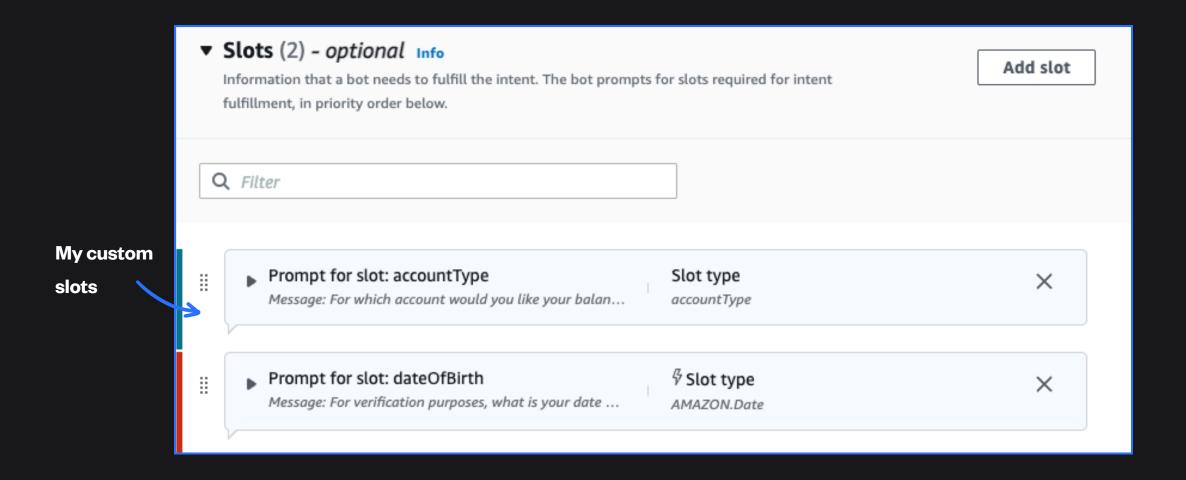
 In this project, I'm using Amazon Lex to create BankerBot, a chatbot designed to simplify checking account balances.
 BankerBot leverages the CheckBalance intent to understand user requests and provide quick, accurate information.





Create custom slots

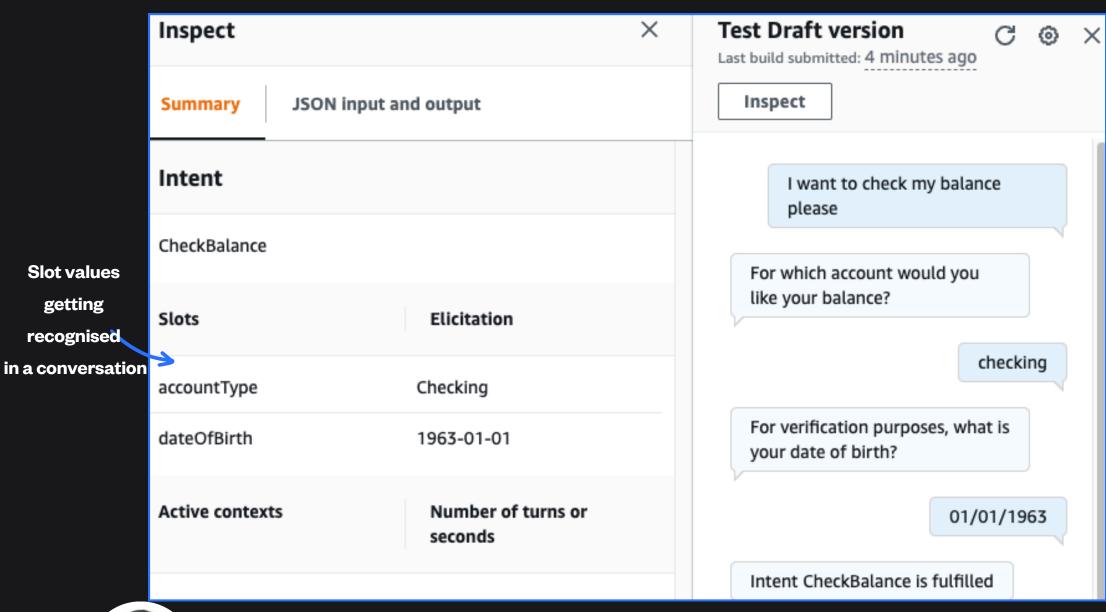
- **Slots** are pieces of information that a chatbot needs to complete a user's request.
- In this project, I created a **custom slot** to check account balance using accountType and verify the user using dateOfBirth slot
- I then associated the custom slot with a new intent, CheckBalance, so that when a user asks a query (utterance) the BankerBot will ask for account type and user's date of birth for verification.





Simplifying the user experience

- I included slot values in some of the utterances (i.e. user inputs) for this intent too. For example, I defined intent Balance in {accountType}, which expects the slot accountType info.
- By adding custom slots in the utterance, (like "Balance in {accountType}"), the bot understands the account type without prompting, making the conversation smoother for users.





My Key Learnings

- O1 Slots are placeholders in Amazon Lex that collect specific information from user inputs needed to fulfill an intent.
- Slot types define the kind of data a slot can capture. Custom slot types allow you to create specific categories of information tailored to your chatbot's needs.
- I used custom slots in this project to check the balance from the specific account type of the user.
- To Parse the custom slot, I used curly braces {} within the utterance (e.g., "Balance in {accountType}") to indicate the slot for user input.
- This project taught me how to fine-tune bot interactions for a better user experience by adjusting the slot prompts and responses based on user feedback.



Final thoughts...

- This project took me about 30 min. Writing documentation took me around 15 min.
- Delete EVERYTHING at the end! Let's keep this project free:)
- In the next phase of this project, we're enhancing BankerBot's memory with context carryover, allowing it to remember key details like the user's birthday during a session for a smoother experience. I'll also set up a new flow for transferring money between accounts!



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Thanks NextWork for the free project guide!



ERROR! 00 OMG

An error I ran into was...

Kudos to me! There's no error while doing this project



