RideRequest bot created using AWS Lex

To create the RideRequest chatbot using AWS Lex, I followed the following steps:

1. I accessed the AWS account or AWS Academy account and logged in.

2. I navigated to the AWS Lex service in the AWS Management Console.

3. In the Lex console, I clicked on "Create" to start creating a new chatbot.

4. I selected "Custom bot" as the bot type.

5. I provided a name for the bot, such as "RideRequest".

6. I configured the intents and slots according to the requirements for the Taxi and Car rental service.

   a. For the "Self-drive" intent, I created sample utterances like "I want to request a self-drive ride."

   b. I defined slots for capturing information like name, the type of ride (self-drive or taxi), customer address, pickup date and time, arrival time for self-drive, vehicle type (SUV, Sedan, Minivan), and quantity.

7. I set up prompts to gather the required information from the user. For example, I created prompts like "When are you coming to get your vehicle?" and "What do you want today (SUV, Sedan, Minivan)?"

8. I configured the fulfillment for the intent, where I set up responses to confirm the user's request and provide relevant details.

   a. For example, I configured the fulfillment to respond with "You have requested for 1 SUV, and you will be arriving at 12:00 pm" when all the necessary information is collected.

   b. I also set up a response to acknowledge the successful placement of the request, such as "Your request has been placed successfully."

9. I customized the chatbot further by adding clarification prompts, confirmation prompts, and error handling.

10. For the Taxi booking, I created an another Intent, with giving inputs for sample utterances as I want to book a taxi, etc..,

11. Then I provided slots and slot type as name, city, date, time. With custom prompts for each slots. In this section I have used aws provided slot type such as AMAZON.city, AMAZON.date, AMAZON.time.

12. After adding slots, I provided Confirmation message and Fulfillments to the Taxi Intent.

13. Once the chatbot was configured, I tested it using the Lex test bot interface to ensure it was functioning correctly.

14. I took screenshots at each step of the process, including the creation of the bot, customization, and testing.

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Steps for Creating a Chat bot using AWS Lex:

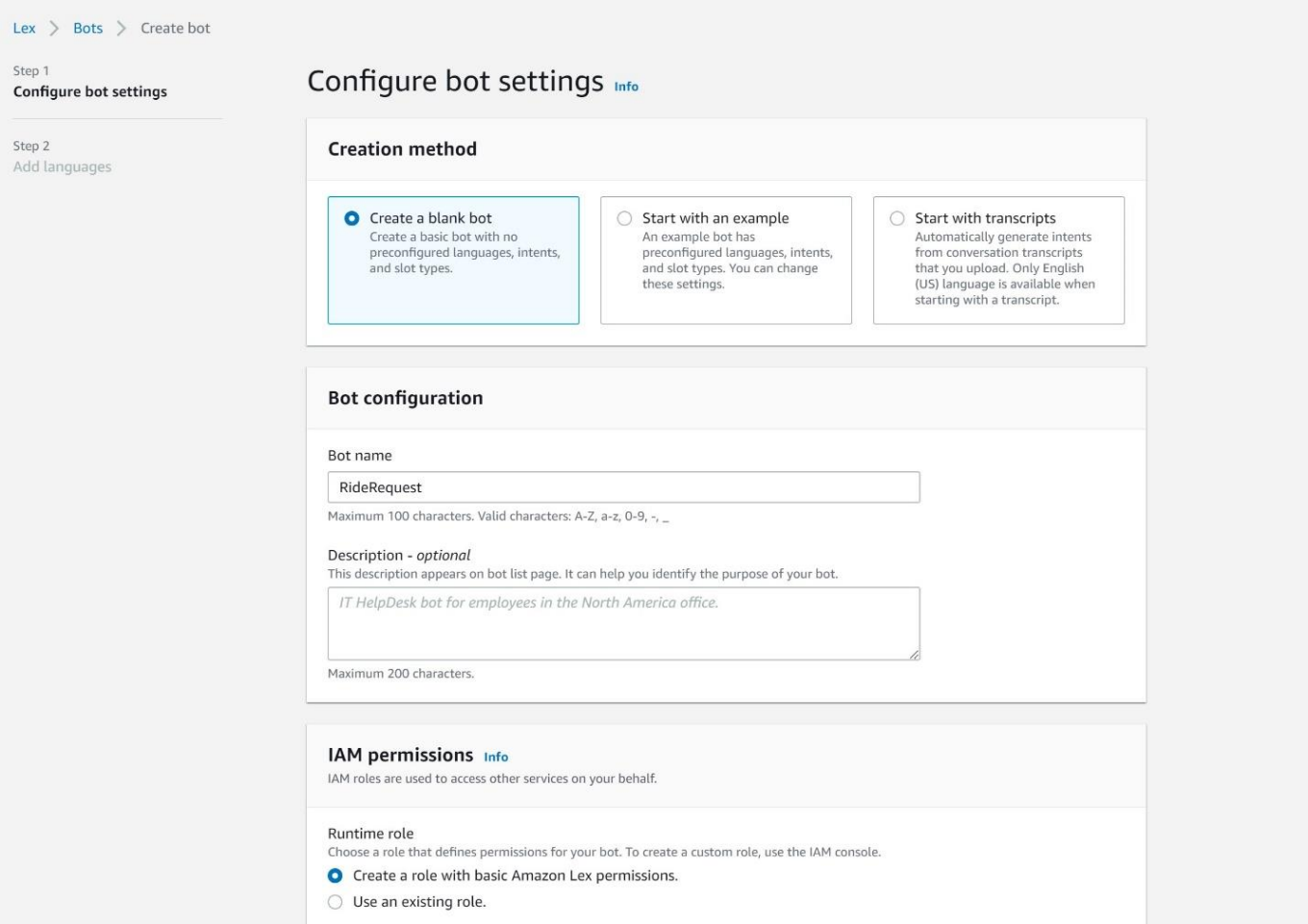

Fig 1: Custom Bot creation config with RideRequest name

RideRequest bot created using AWS Lex

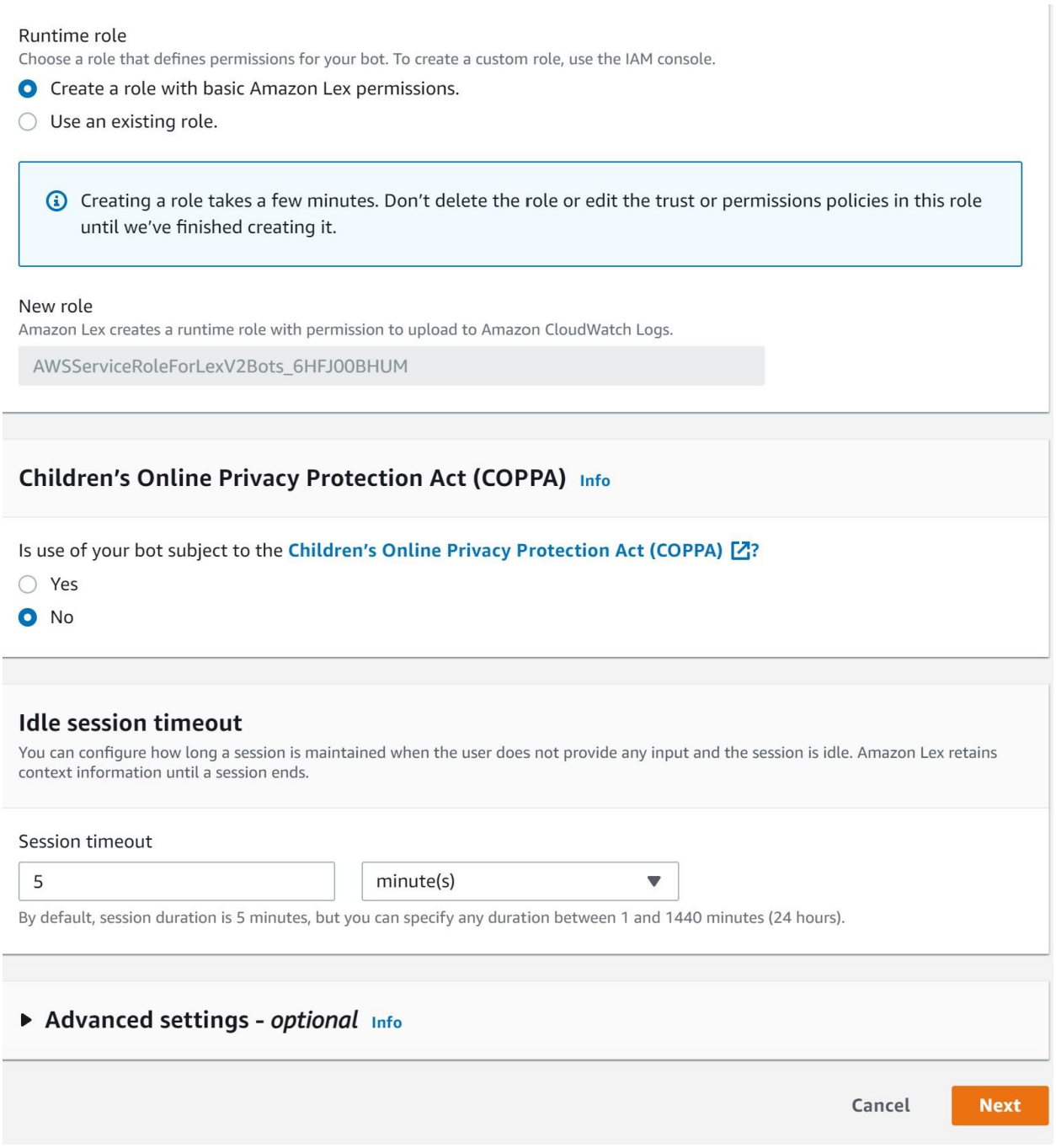

Fig 2: Bot creation configuration part

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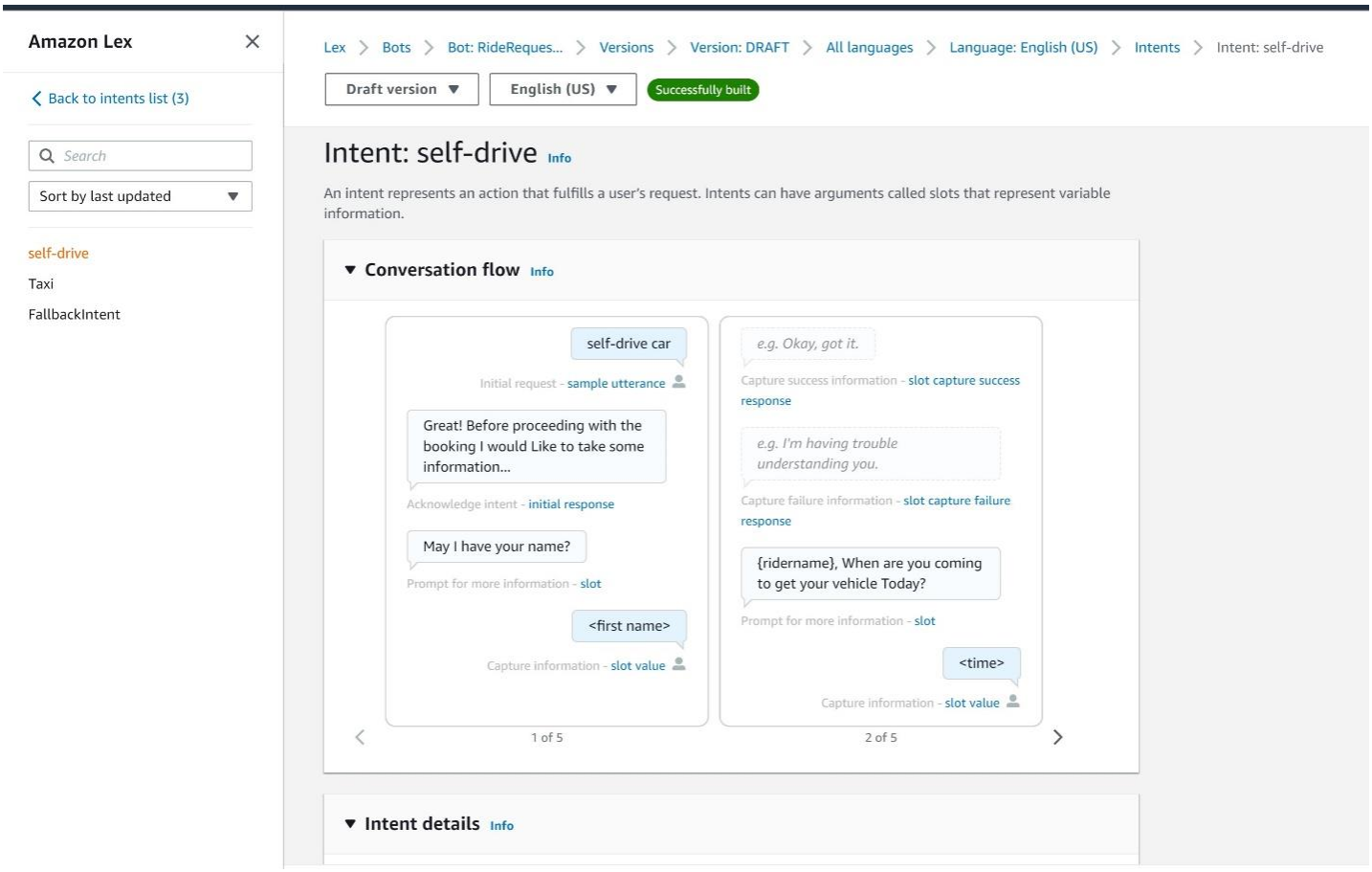

Fig 3: Intent for Self-drive

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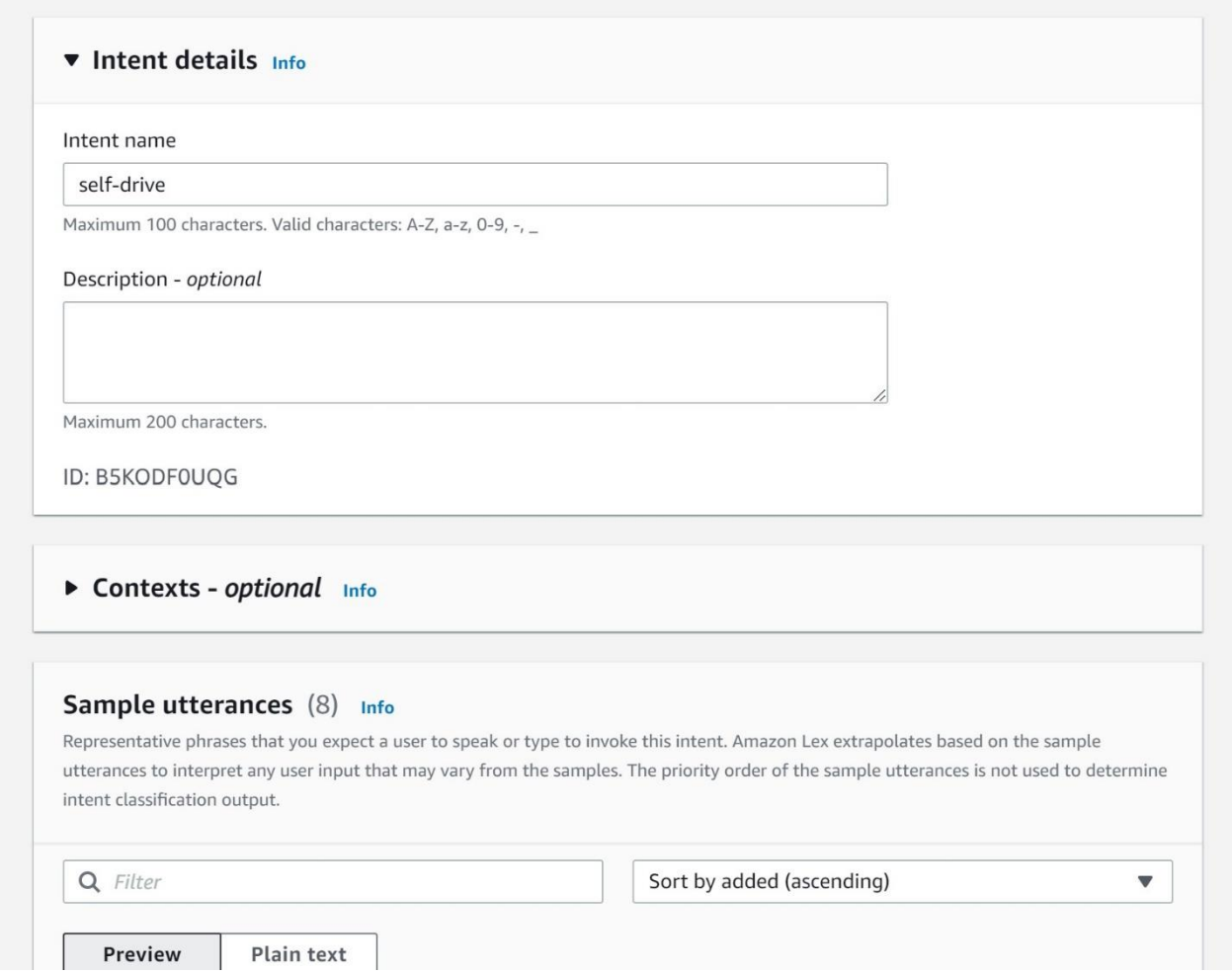

Fig 4: Intent section details for Self-Drive Intent

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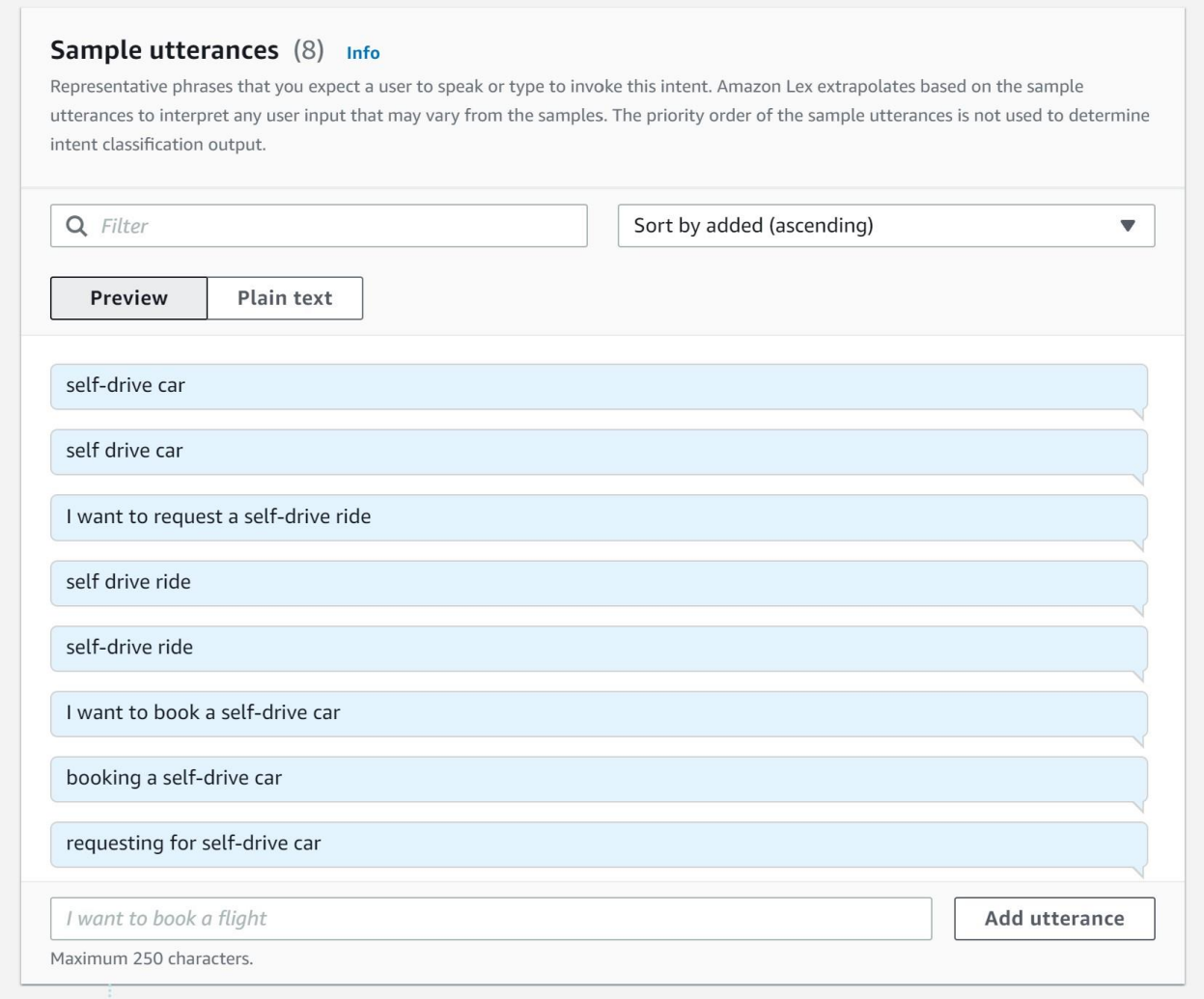

Fig 5: Sample utterances added for self-drive intent

RideRequest bot created using AWS Lex

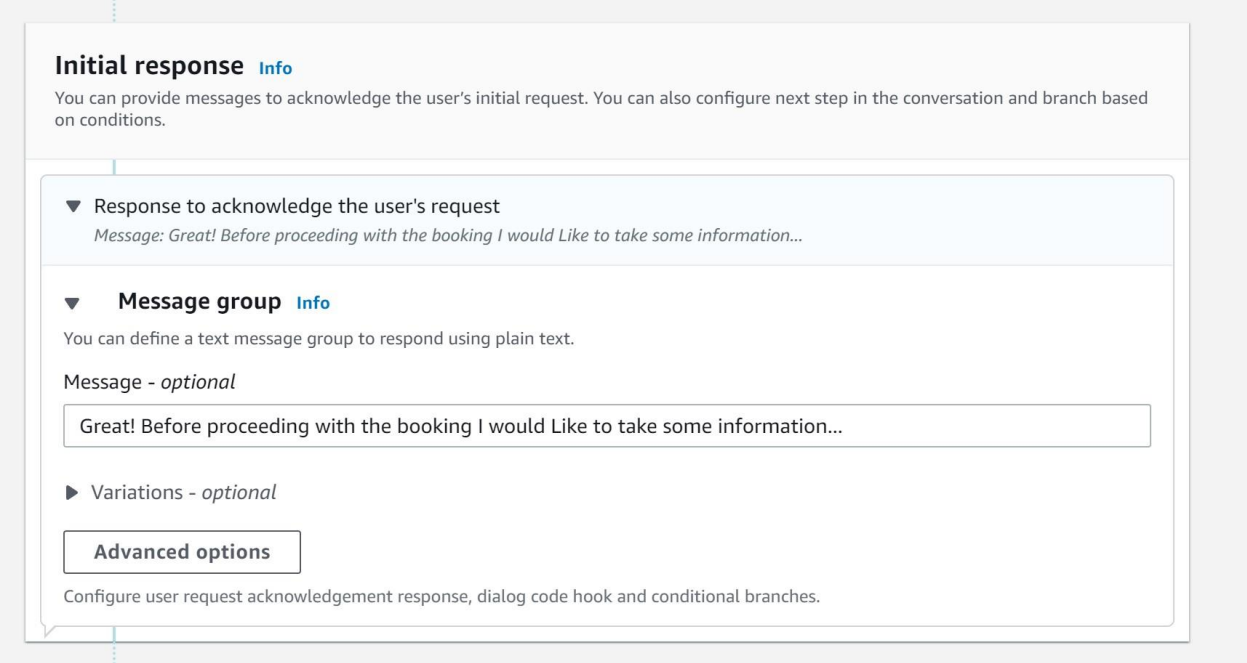

Fig 6: Initial Response provided of Self-drive Intent

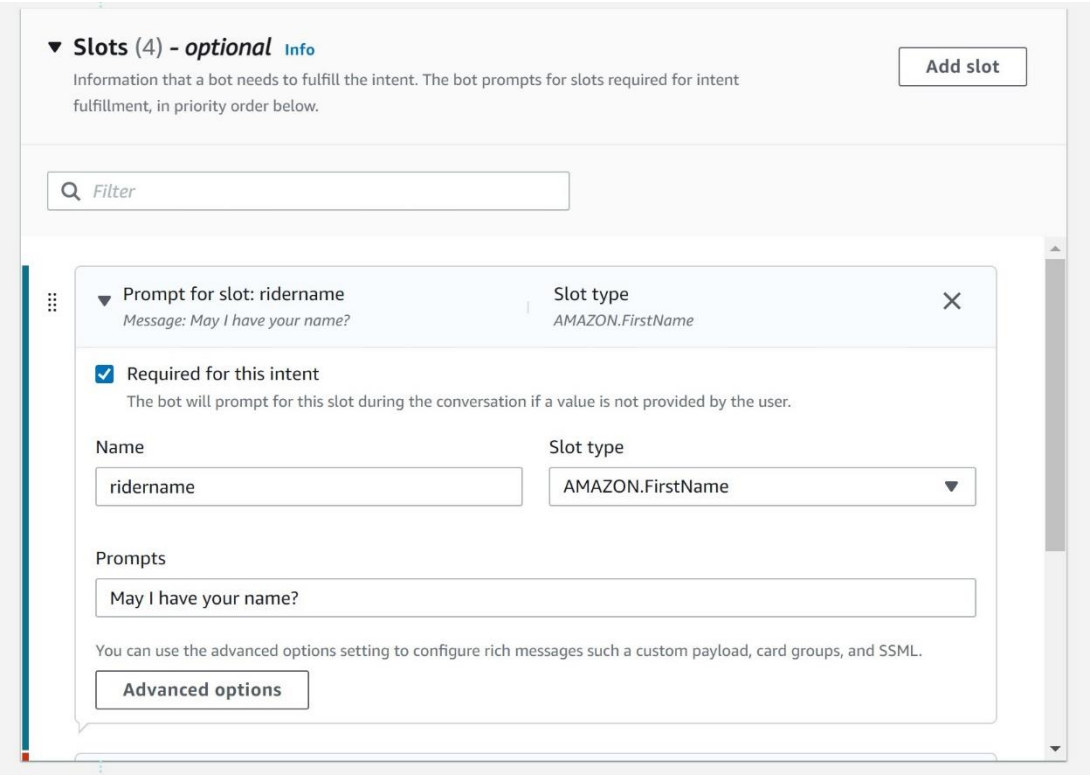

Fig 7: Creating Slots for self-drive intent

RideRequest bot created using AWS Lex

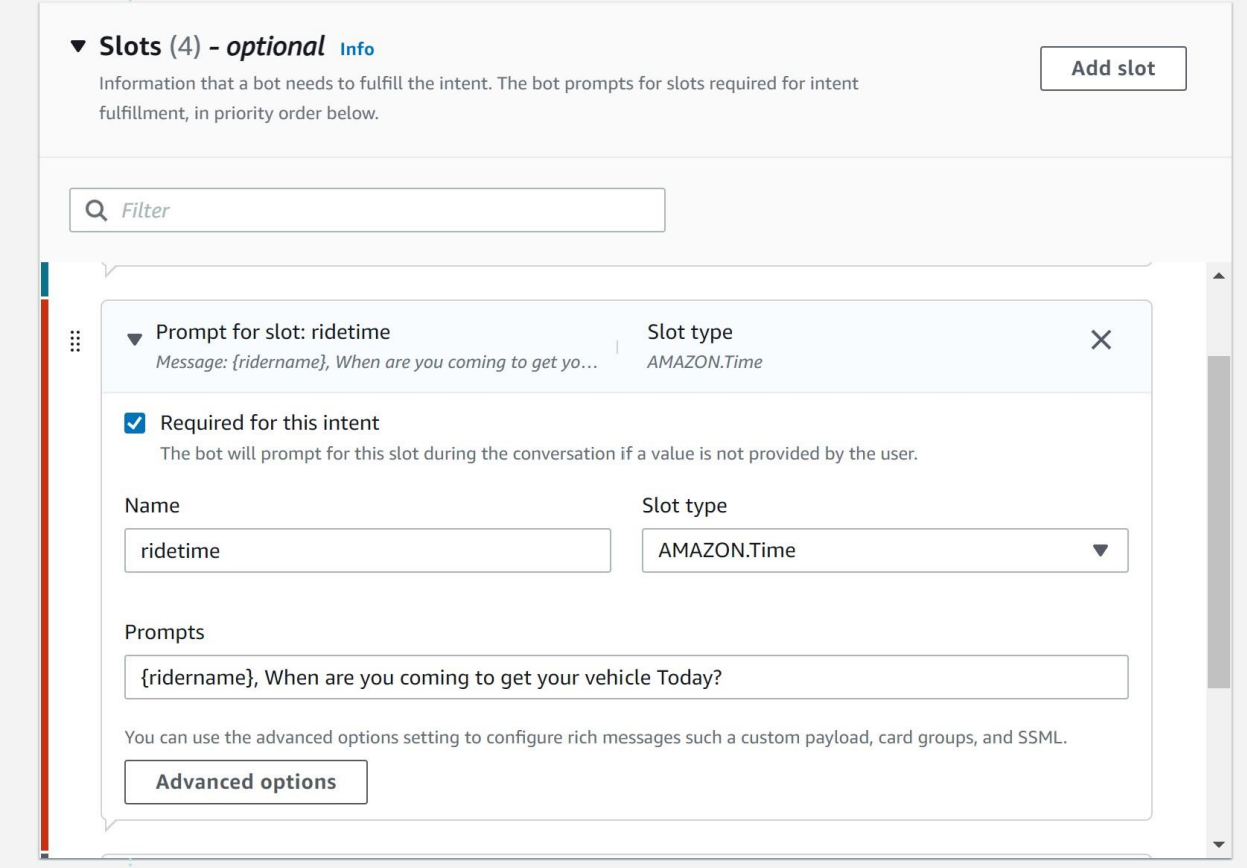

Fig 8: Slots for self-drive Intent

RideRequest bot created using AWS Lex

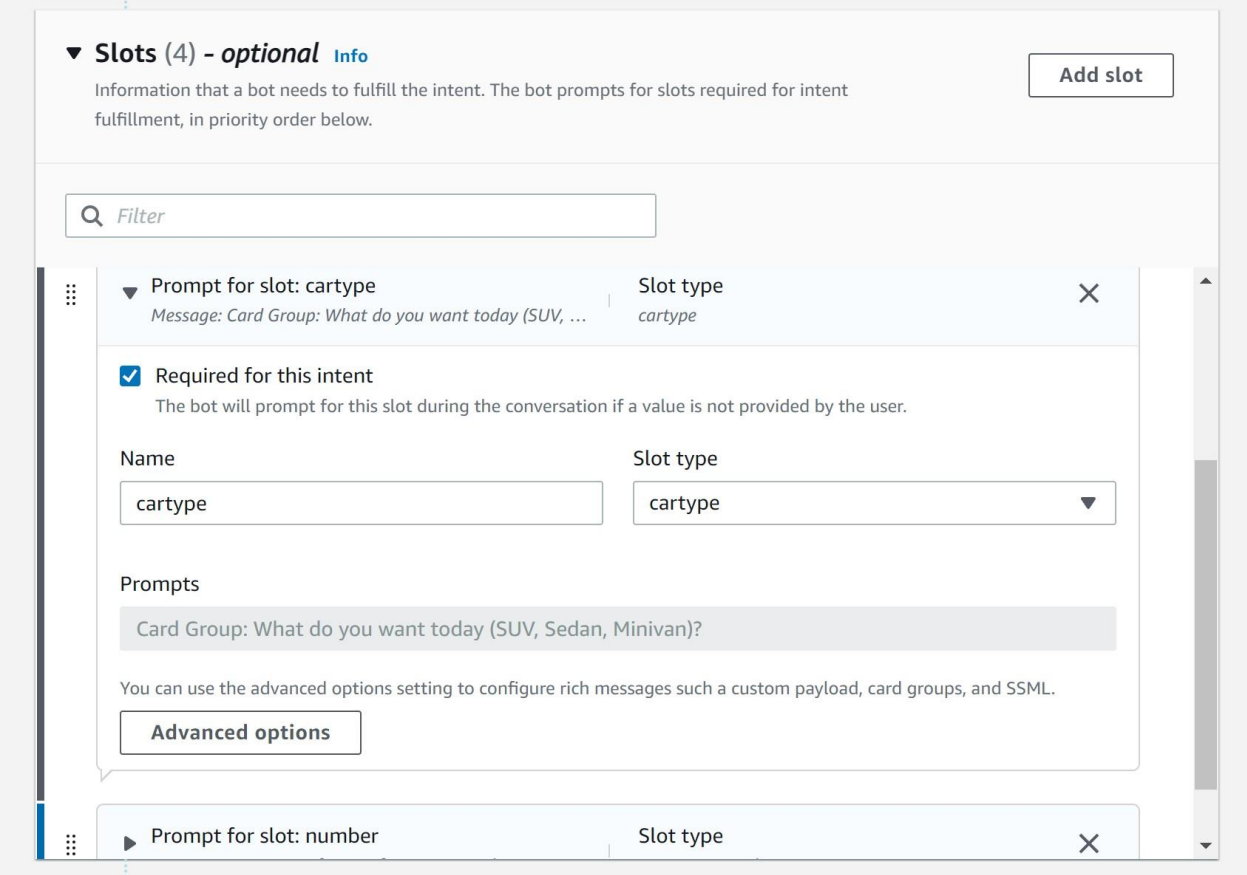

Fig 9: Slots for self-drive Intent

RideRequest bot created using AWS Lex

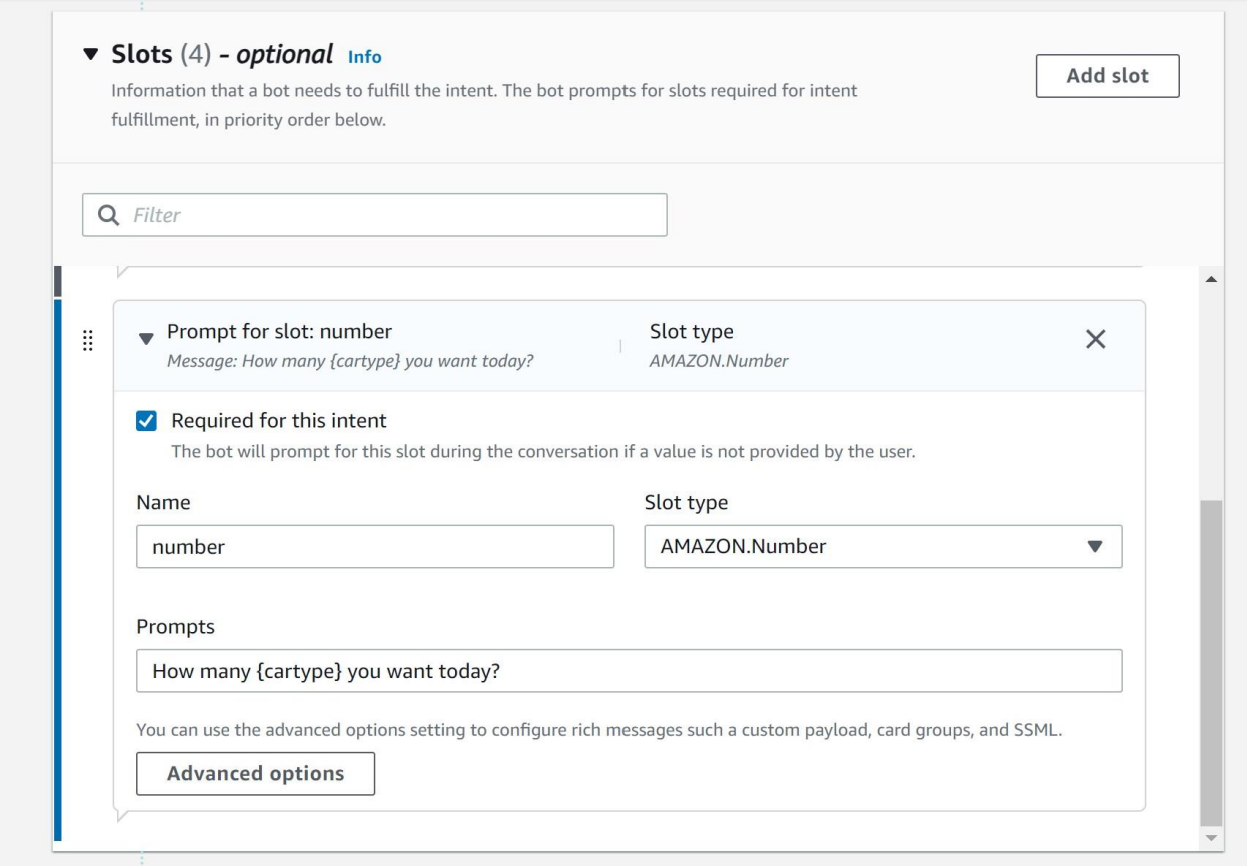

Fig 10: Slots for self-drive Intent

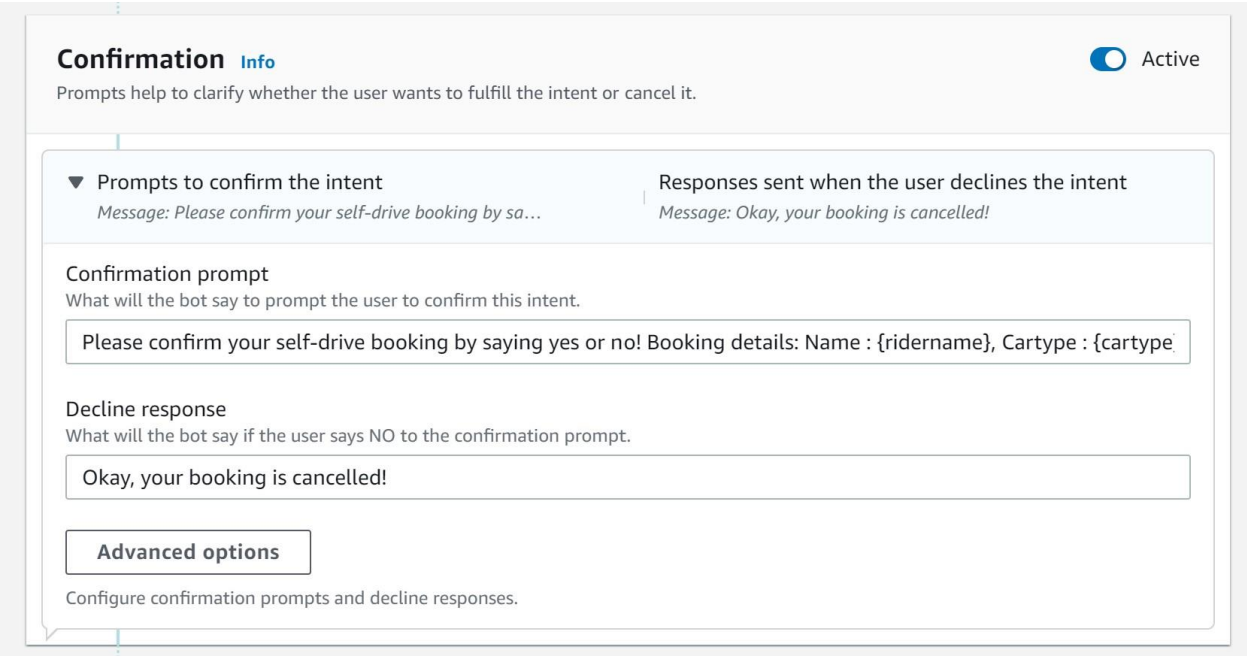

Fig 11: Confirmation Section for self -drive intent with Confirmation Prompt and Decline response

RideRequest bot created using AWS Lex

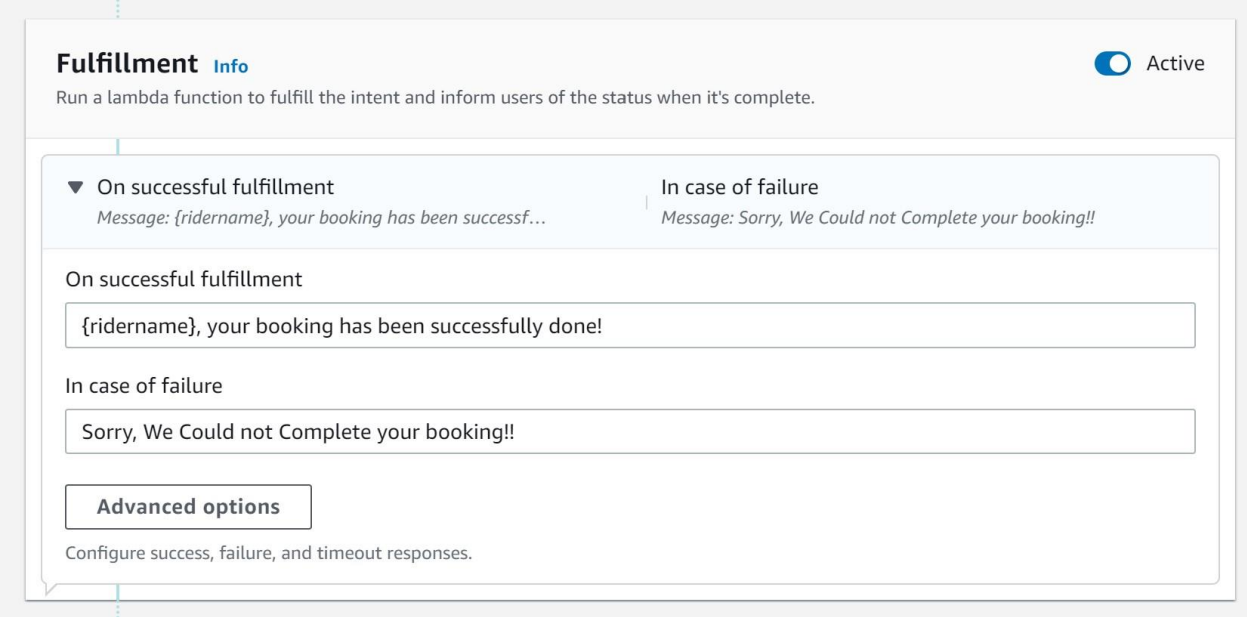

Fig 12: Fulfillment(Successful or Failure) of Self-drive intent

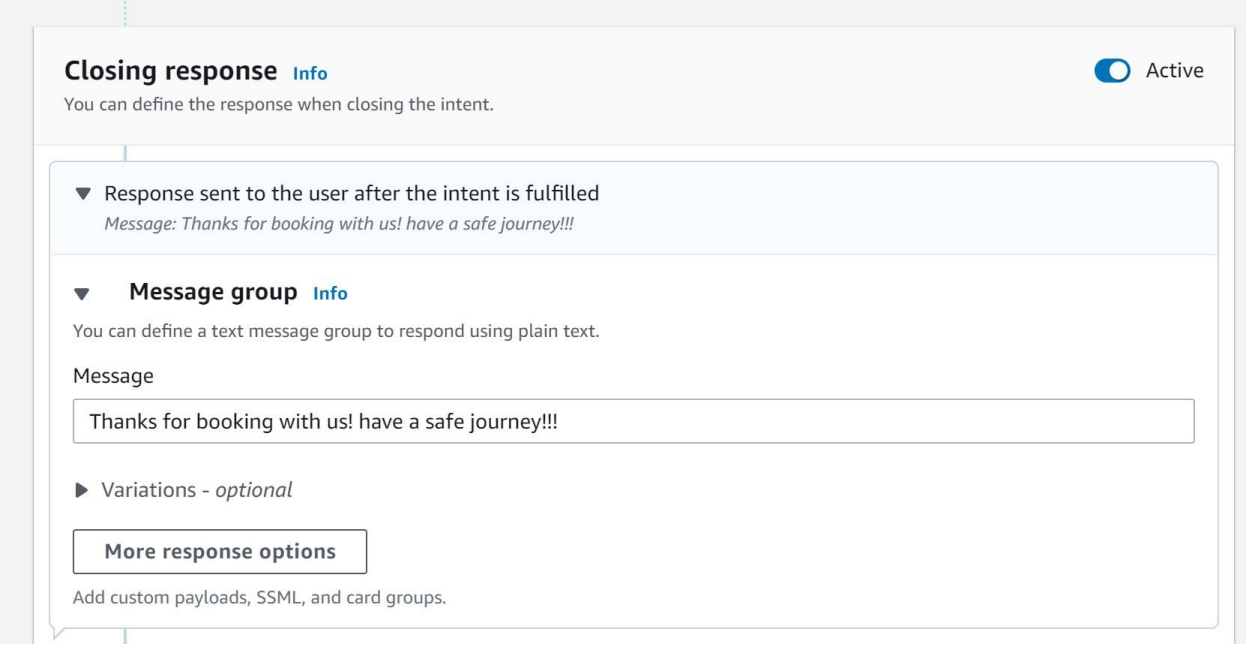

Fig 13: Adding Closing Response of Self- Drive intent

RideRequest bot created using AWS Lex

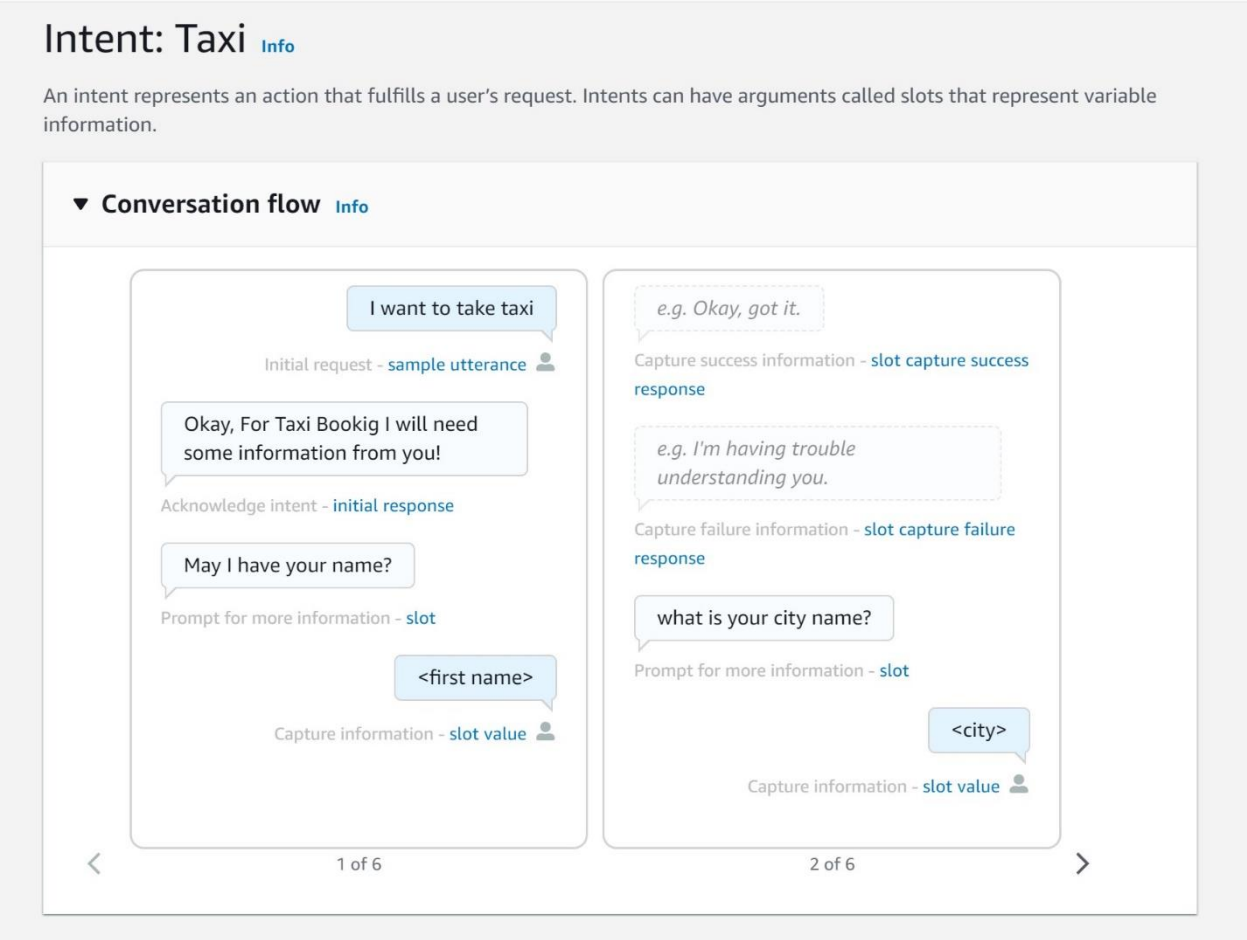

Fig 14 : Creating Intent for Taxi booking

RideRequest bot created using AWS Lex

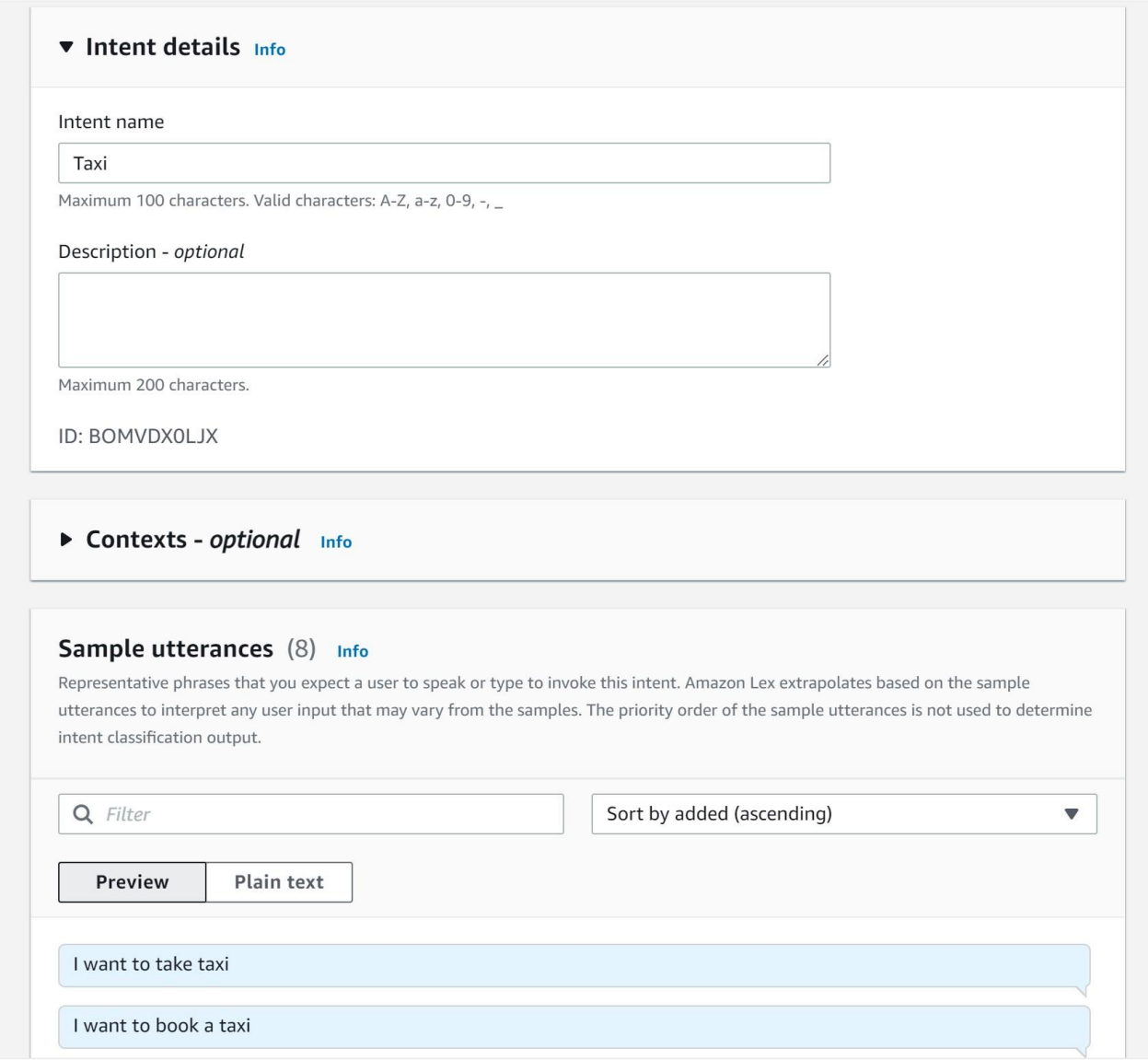

Fig 15: Intent configuration of Taxi booking

RideRequest bot created using AWS Lex

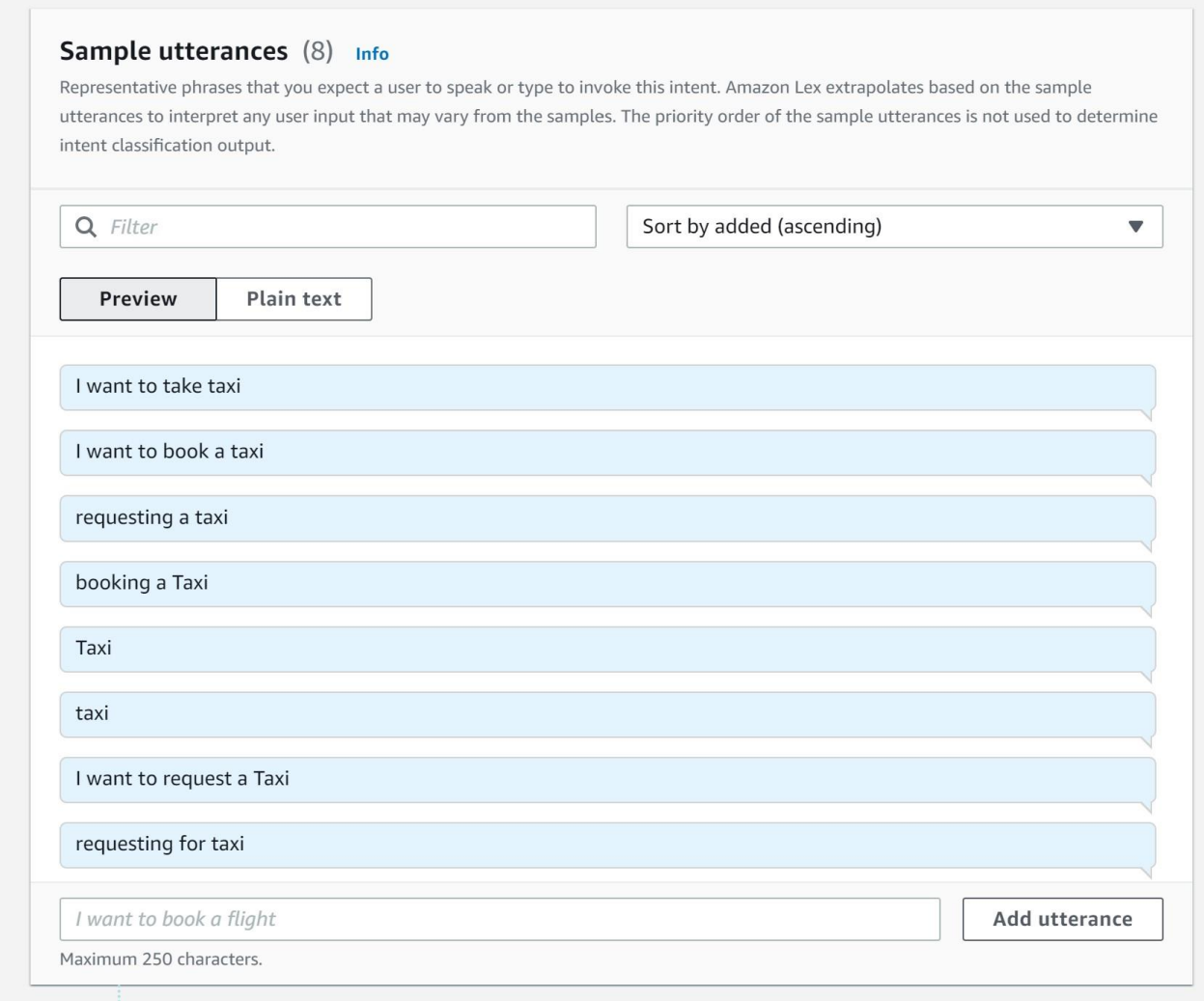

Fig 16: Sample Utterances added for Taxi intent

RideRequest bot created using AWS Lex

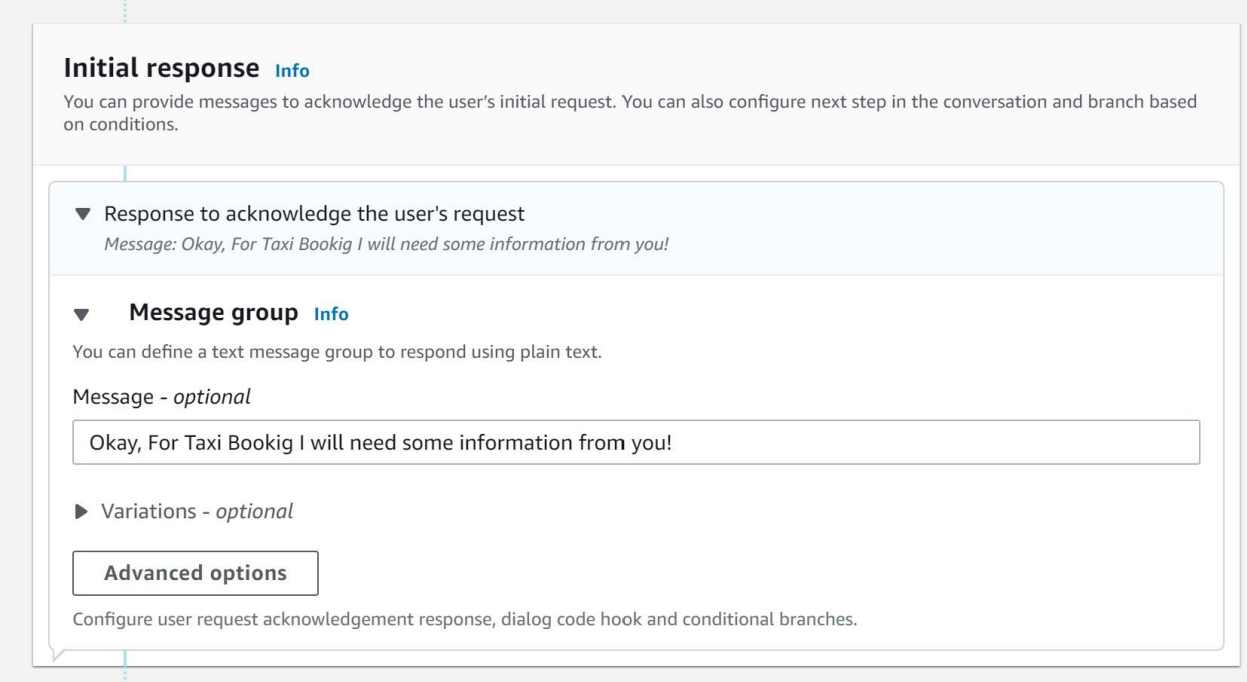

Fig 17: Initial Response with message for Taxi Intent has been added

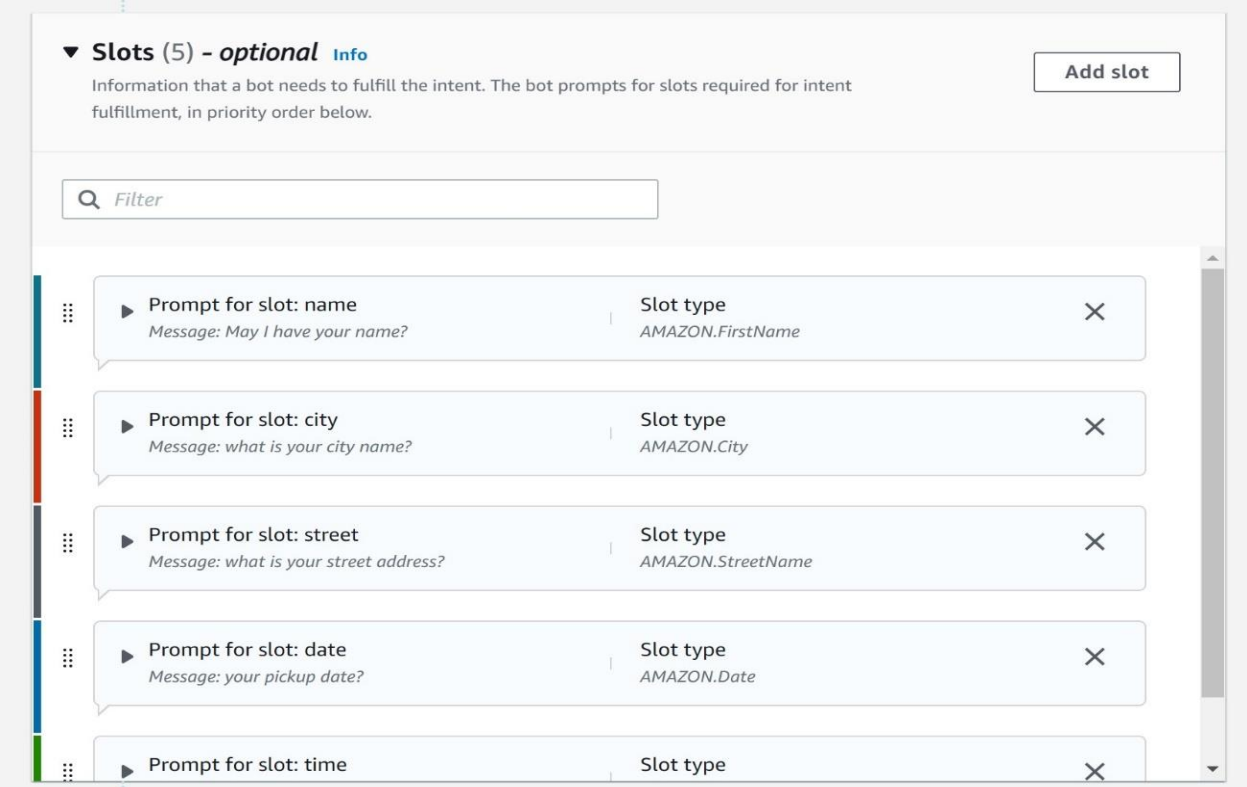

Fig 18: Adding Slots and slot types for Taxi intent

RideRequest bot created using AWS Lex

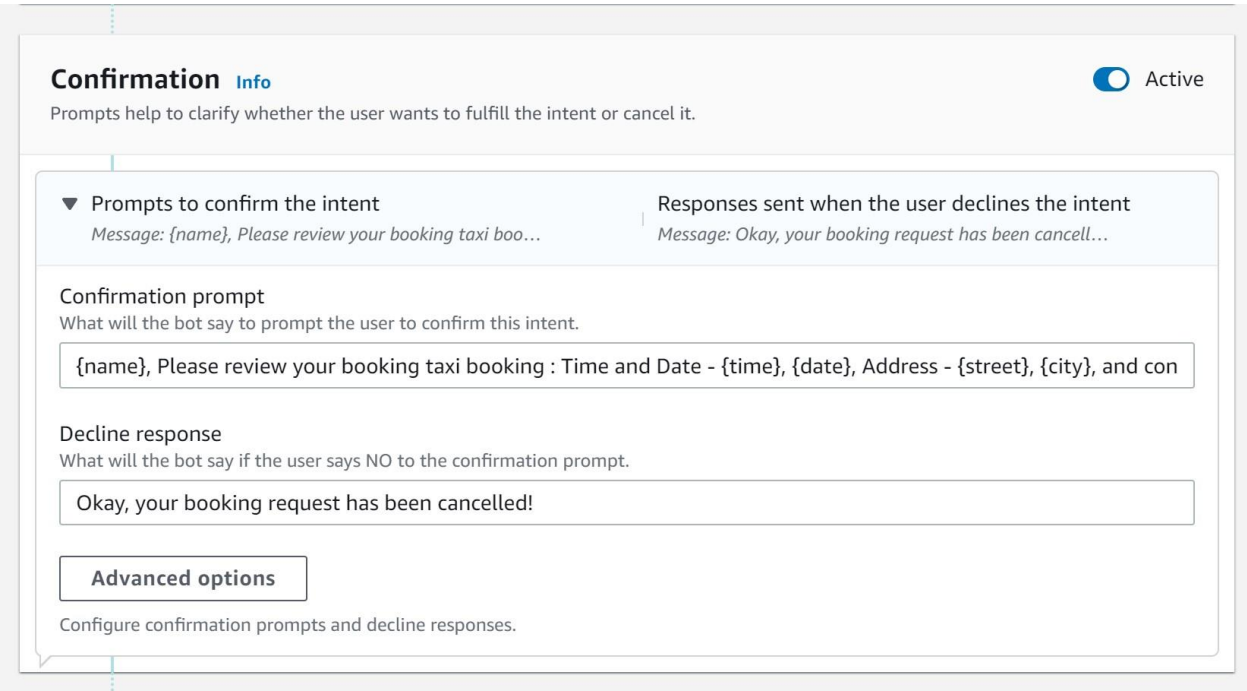

Fig 19: Adding Confirmation Prompt and Decline response into Taxi Intent

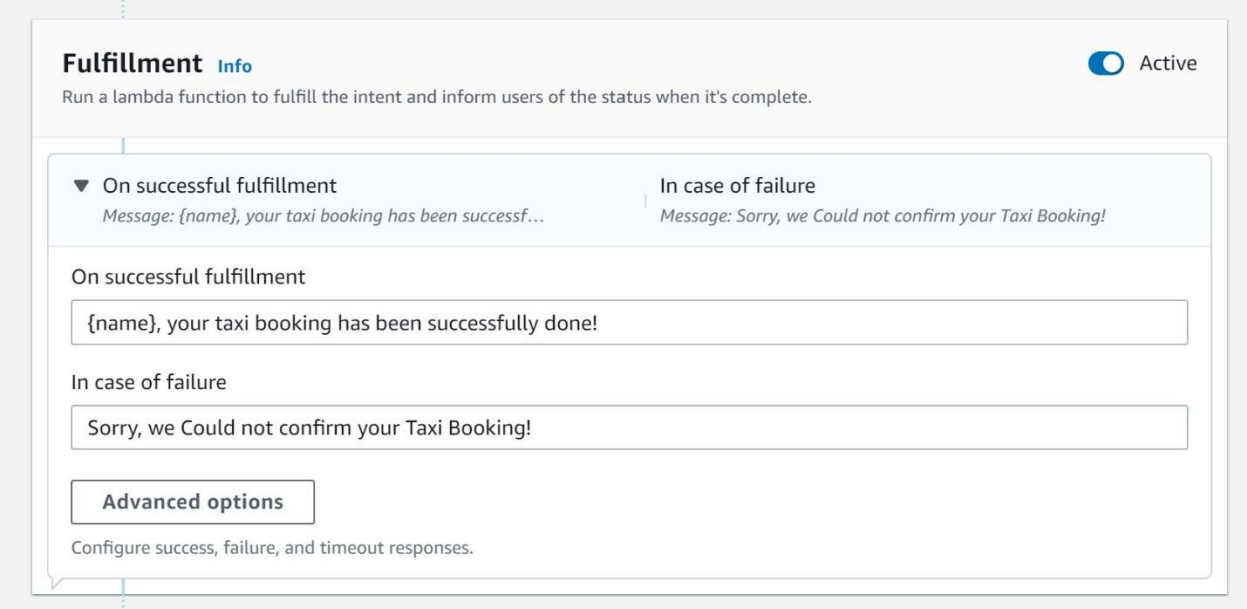

Fig 19: Fulfillment(Successful or Failure) for Taxi Intent

RideRequest bot created using AWS Lex

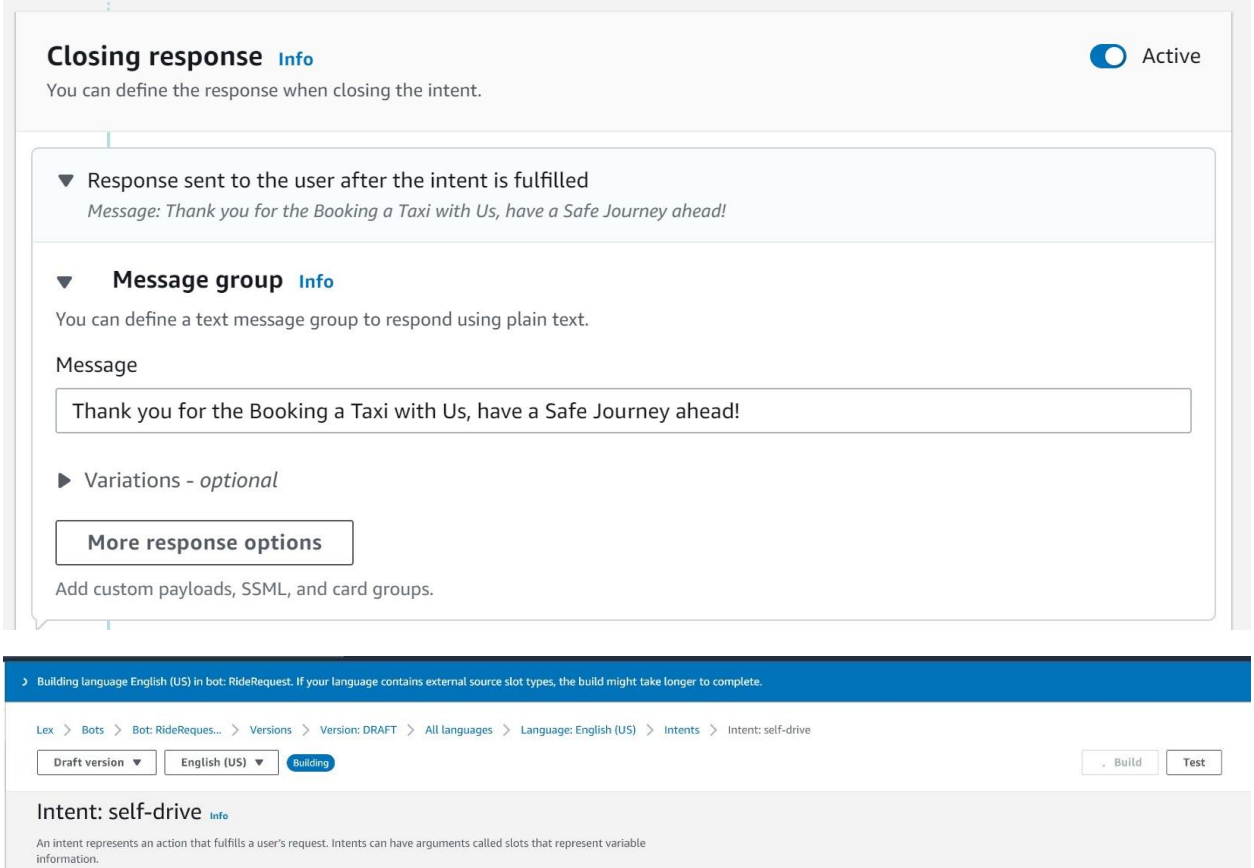

Fig 20 : Closing Response of Taxi Intent and then Building the Bot

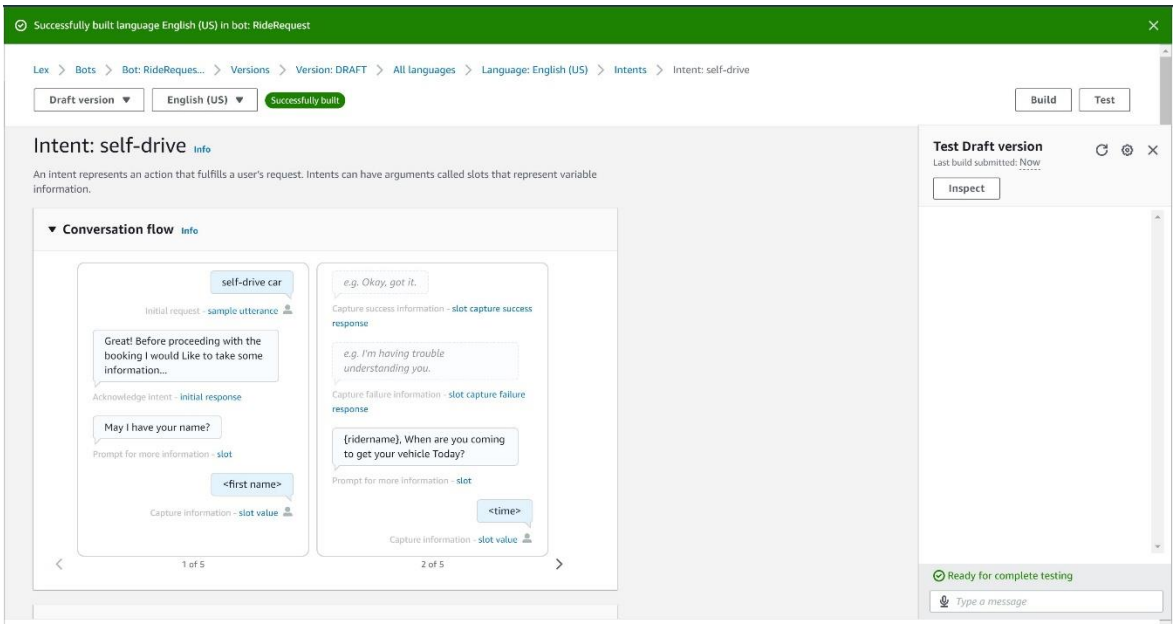

Fig 21: Bot building done successfully

RideRequest bot created using AWS Lex

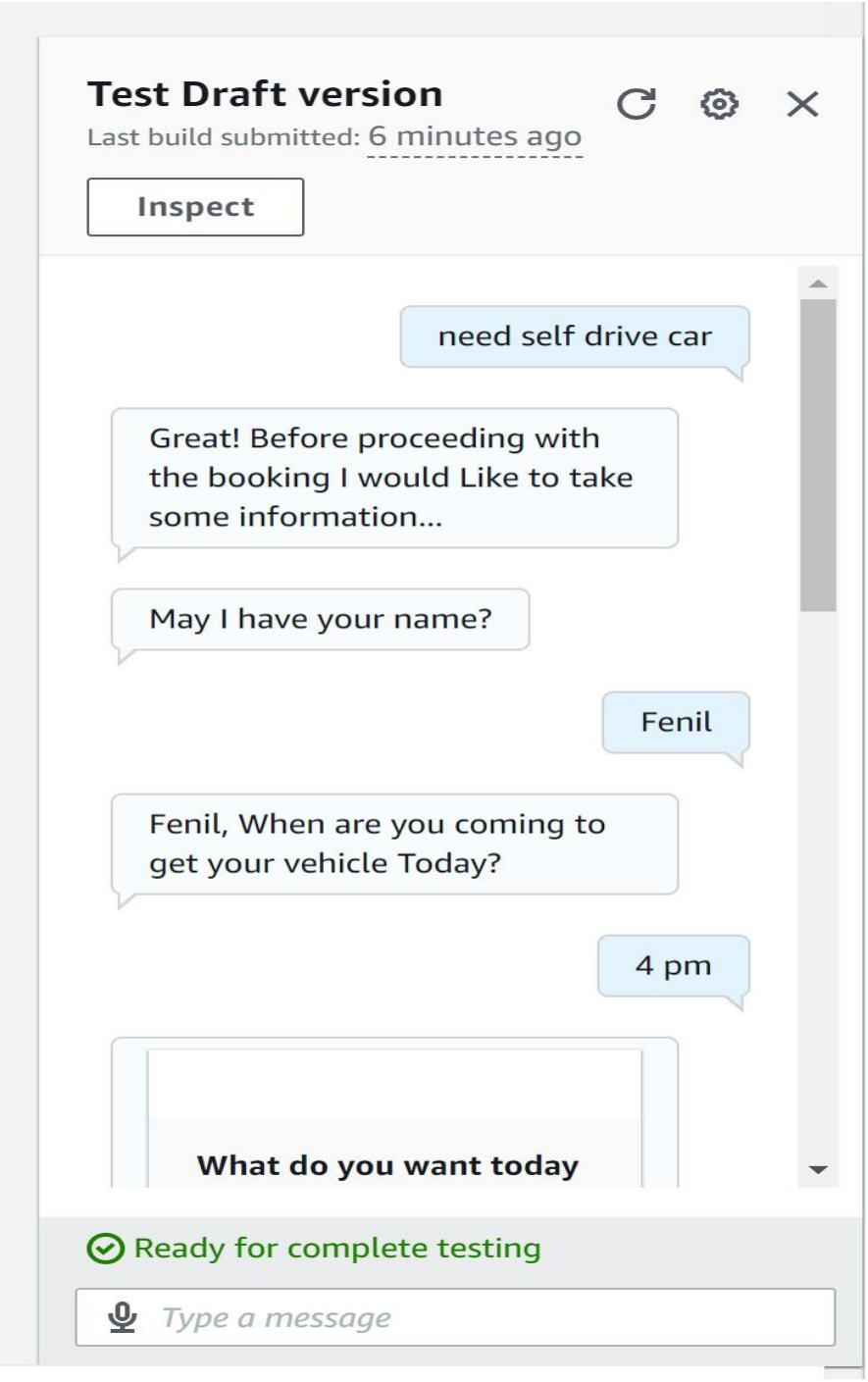

Fig 22: Testing of Bot for Self Drive Car Booking

RideRequest bot created using AWS Lex

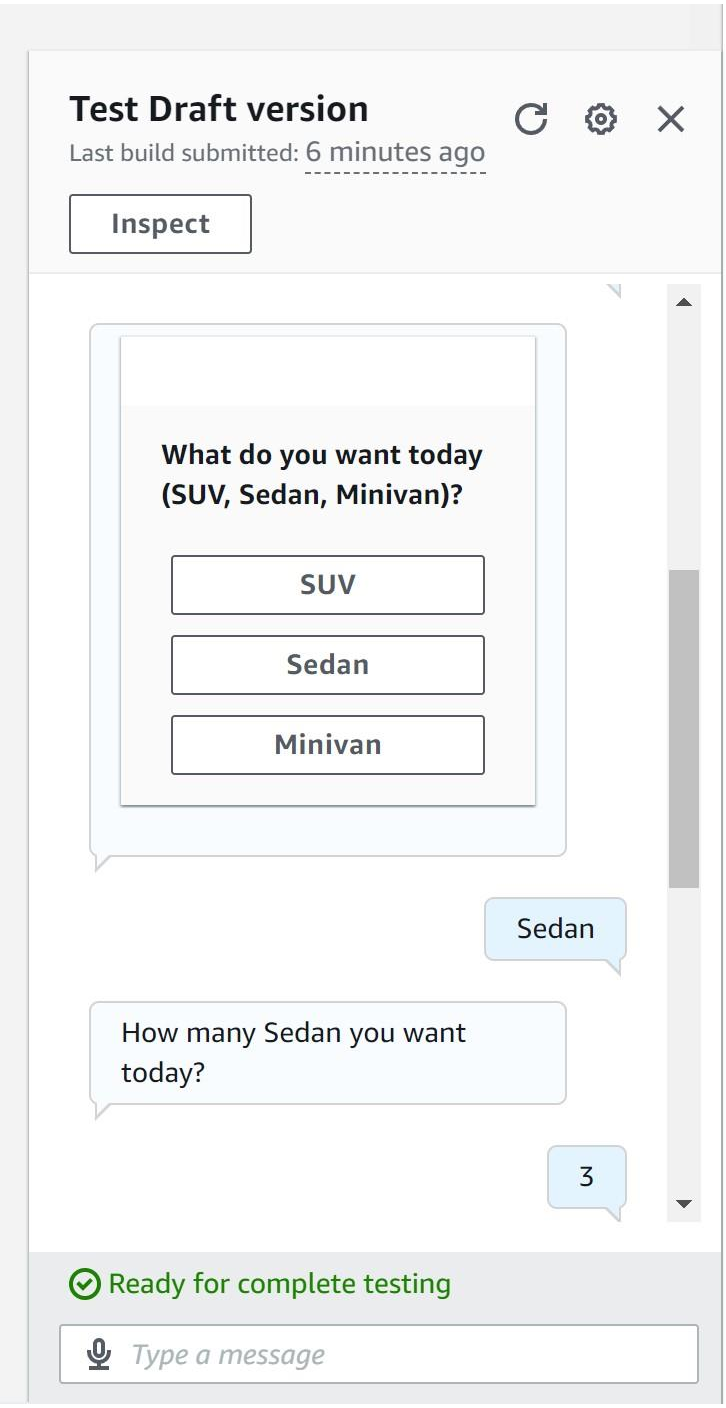

Fig 23: Testing of Bot

RideRequest bot created using AWS Lex

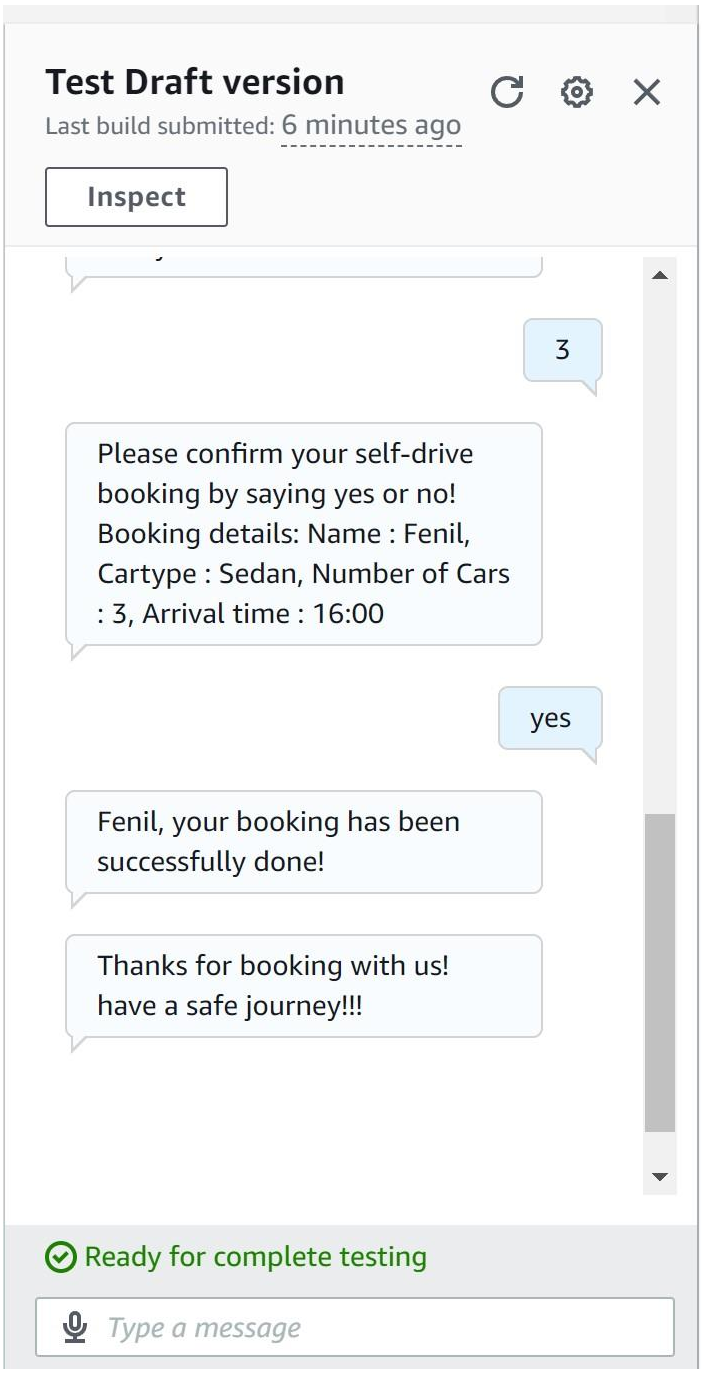

Fig 24: Testing of Bot

RideRequest bot created using AWS Lex

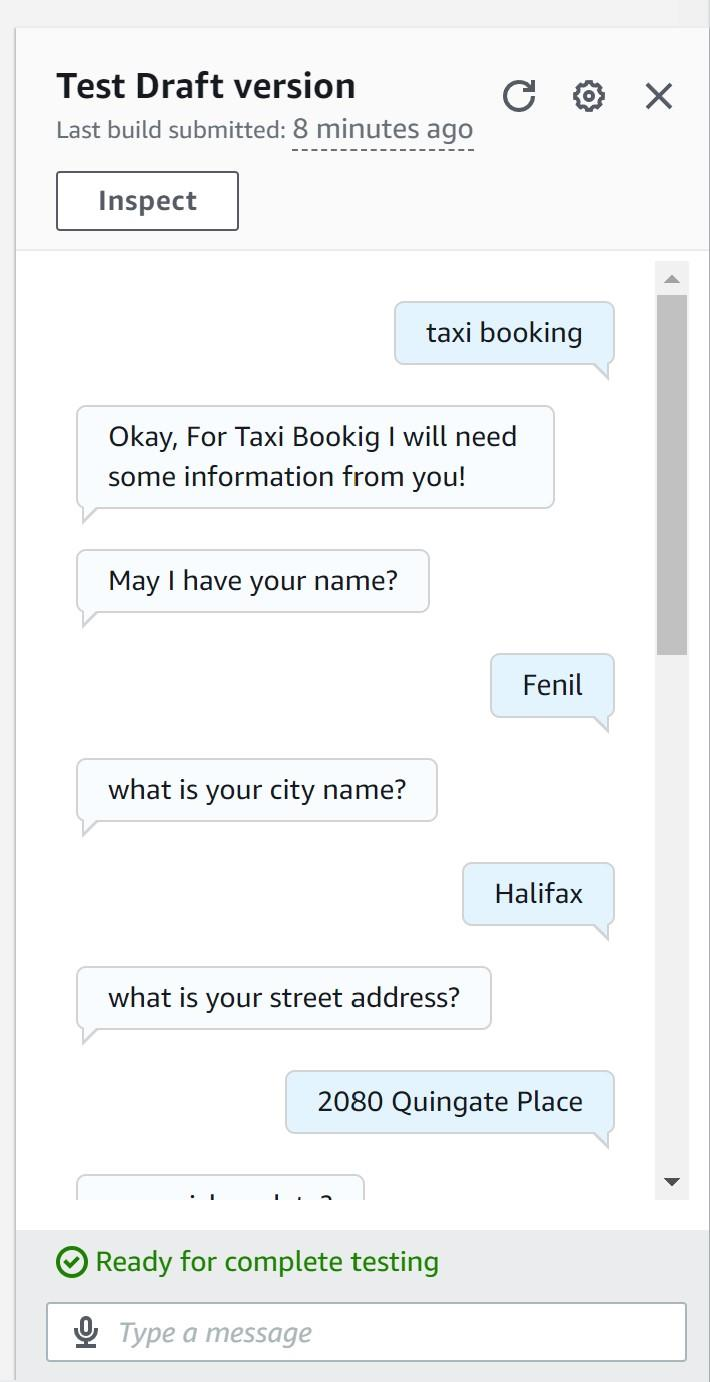

Fig 25: Testing of Bot for Taxi Booking system

RideRequest bot created using AWS Lex

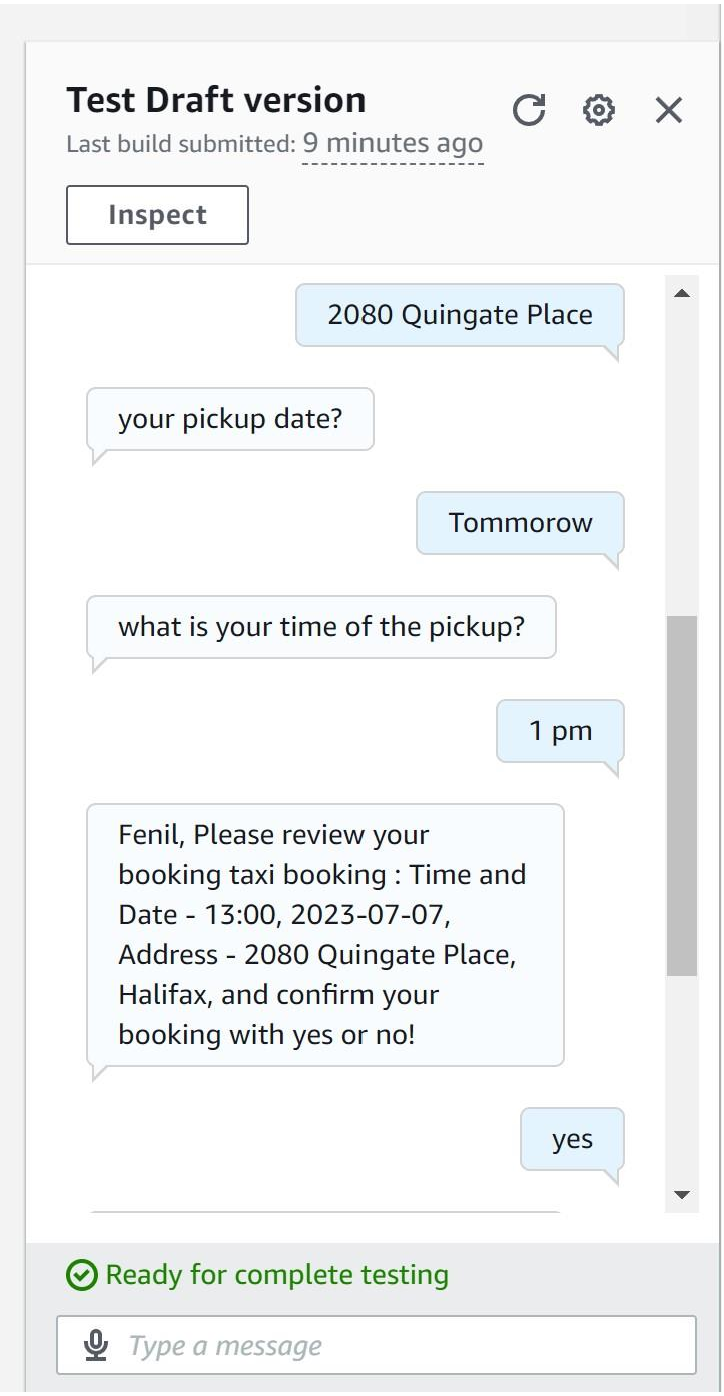

Fig 26: Testing of Bot

RideRequest bot created using AWS Lex

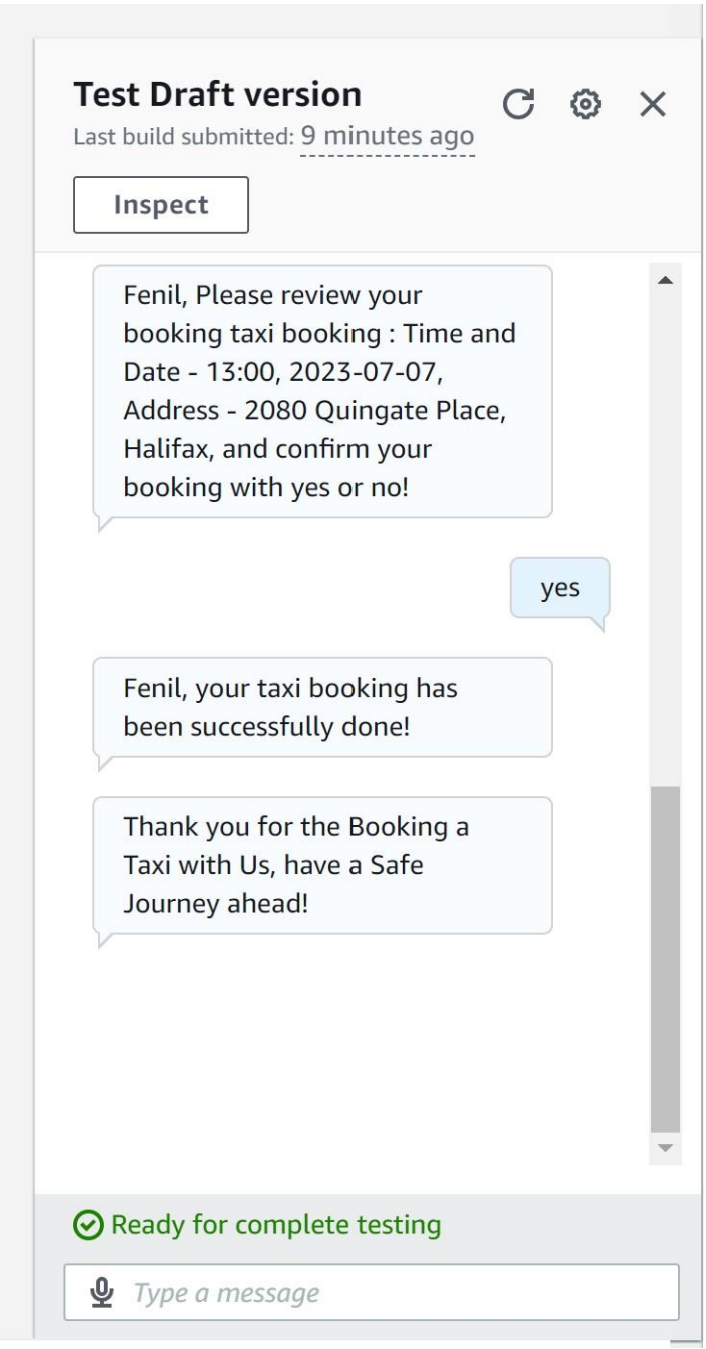

Fig 27: Testing of Bot

References:

How To Develop A Chat Bot Using Amazon Lex?
https://medium.com/edureka/how-to-develop-a-chat-bot-using-amazon-lex-a570beac969e