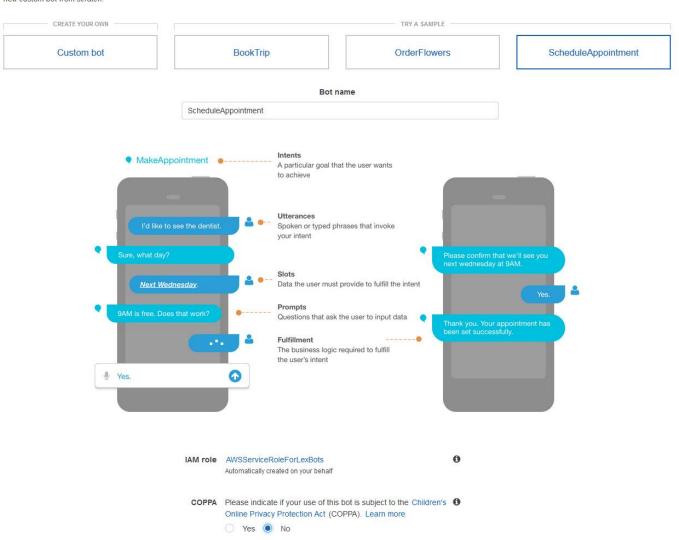
Chatbot Hands on

Laboratório:

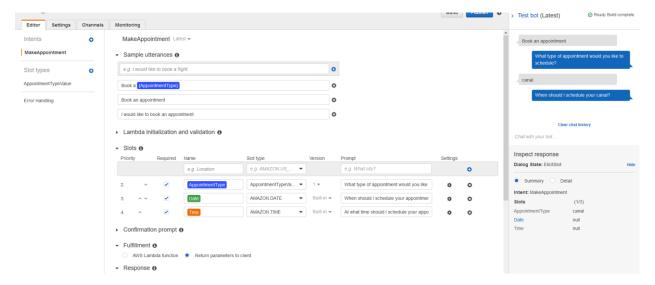
1) Acesse o serviço Amazon Lex pela console e crie o bot ScheduleAppointment usando a Role padrão e selecionando No na opçao de COPPA

Create your bot

Amazon Lex enables any developer to build conversational chatbots quickly and easily. With Amazon Lex, no deep learning expertise is necessary—you just specify the basic conversational flow directly from the console, and then Amazon Lex manages the dialogue and dynamically adjusts the response. To get started, you can choose one of the sample bots provided below or build a new custom bot from scratch.

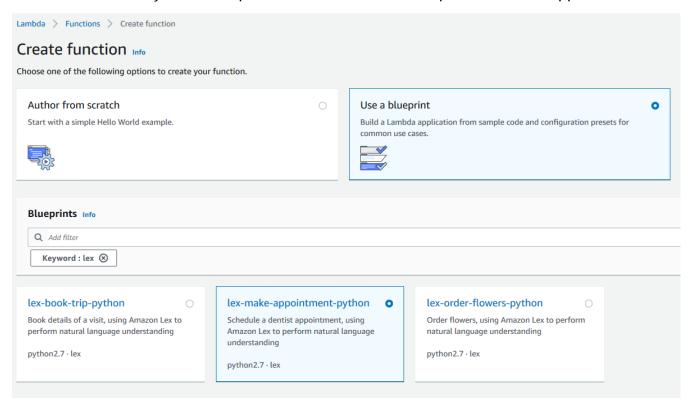


Verifique como o bot foi criado e faça algums testes pela console:



2) Atualize o bot adicionando um Lambda Code Hook e Fulfillment usando uma Lambda Function

Crie uma função lambda pelo Console usando o Blueprint lex-make-appointment



Atualize, faça a Build do seu bot e teste

View in Lambda console 🔀

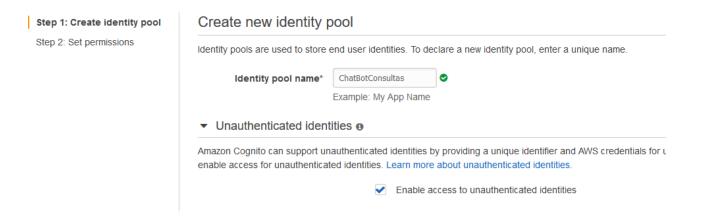
Latest

Version or alias

MakeAppointment Latest ▼ Sample utterances 6 e.g. I would like to book a flight. 0 Book a {AppointmentType} 0 Book an appointment I would like to book an appointment Lambda initialization and validation 6 Initialization and validation code hook Lambda function lambdaCreateAppointment View in Lambda console 🕜 Version or alias Latest Slots 6 Priority Required Name Slot type e.g. AMAZON.US_CITY e.g. Location 2. AppointmentType AppointmentTypeValue 3. Date AMAZON.DATE 4. AMAZON.TIME Confirmation prompt 6 Fulfillment 6 Return parameters to client AWS Lambda function Lambda function lambdaCreateAppointment

3) Configure o Cognito pela Console para integrar com uma interface Web

Crie uma nova Identity Pool (habilite a opção de acesso não autenticado para o fim de testes):



O Cognito irá criar uma role para seu novo Identity Pool, altere essa role e adicone as permissões AmazonLexRunBotsOnly e TranslateReadOnly



Atualize o script com as informações do seu bot:

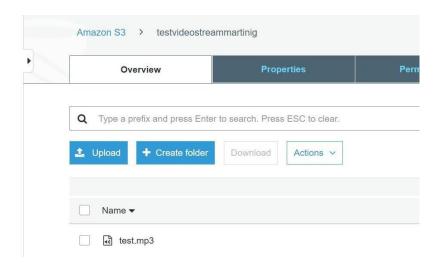
```
AWS.config.region = 'us-east-1'; // Region
AWS.config.credentials = new AWS.CognitoIdentityCredentials({
    IdentityPoolId: 'us-east-1:cf9092dd-0bcd-40ea-a515-9283f00a64db',
});
var lexruntime = new AWS.LexRuntime();
var lexUserId = 'chatbot-demo' + Date.now();
var sessionAttributes = {};
var translate = new AWS.Translate({ apiVersion: '2017-07-01' });
function pushChat() {
    var wisdomText = document.getElementById('wisdom');
    if (wisdomText && wisdomText.value && wisdomText.value.trim().length > 0) {
        var wisdom = wisdomText.value.trim();
        wisdomText.value = '...;
        wisdomText.locked = true;
        var translateparams = {
            SourceLanguageCode: 'pt', /* required */
            TargetLanguageCode: 'en', /* required */
            Text: wisdom, /* required */
        };
        showRequest(wisdom);
        translate.translateText(translateparams, function (err, data) {
            if (err) console.log(err, err.stack); // an error occurred
                console.log(data.TranslatedText); // translated text
                var params = {
                    botAlias: '$LATEST',
                    botName: 'ScheduleAppointment',
                    inputText: data.TranslatedText,
                    userId: lexUserId,
                    sessionAttributes: sessionAttributes
                };
```

4) Crie uma nova intent para o bot e utilize o amazon translate para tradução do diálogo (Exemplo: verificar resultados de exames)

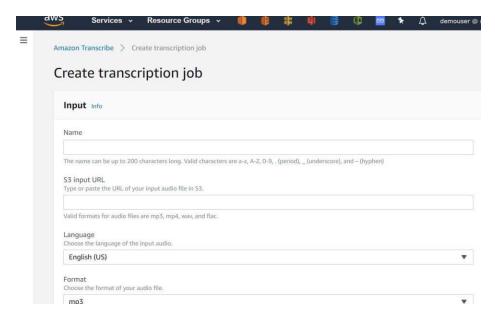
- a. Crie uma nova intent para o bot;
- **b.** Adicione um novo tipo de slot;
- **C.** Utilize o lambda para validar os inputs (opcional);
- **d.** Faça o deploy do bot;
- e. Atualize as permissões e o script;

5) Utilize o Amazon Transcribe para converter aúdio em texto (opcional)

Faça o upload de um arquivo em um bucket S3:



Crie um transcription Job no Amazon Transcribe:



Faça o download do arquivo JSON no bucket de destino e verifique o texto.

Documentação e material extra:

Documentação Amazon Lex: https://docs.aws.amazon.com/lex/latest/dg/what-is.html

Documentação Amazon Translate:

https://docs.aws.amazon.com/translate/latest/dg/what-is.html

Documentação Amazon Transcribe:

https://docs.aws.amazon.com/transcribe/latest/dg/what-is-transcribe.html

Example: Integrating with a Web site: https://docs.aws.amazon.com/lex/latest/dg/ex-web.html

Deploy a Web UI for Your Chatbot: https://aws.amazon.com/pt/blogs/machine-learning/deploy-a-web-ui-for-your-chatbot/

Create a translator chatbot using Amazon Translate and Amazon Lex: https://aws.amazon.com/pt/blogs/machine-learning/create-a-translator-chatbot-using-amazon-translate-and-amazon-lex/

Create a Question and Answer Bot with Amazon Lex and Amazon Alexa:

https://aws.amazon.com/pt/blogs/machine-learning/creating-a-question-and-answer-bot-with-amazon-lex-and-amazon-alexa/

Enhance Your Amazon Lex Chatbots with Responses:

https://aws.amazon.com/pt/blogs/machine-learning/enhance-your-amazon-lex-chatbotswith-responses/

Integrating an Amazon Lex Bot with Facebook Messenger:

https://docs.aws.amazon.com/lex/latest/dg/fb-bot-association.html

Monitorando Amazon Lex com Amazon CloudWatch https://docs.aws.amazon.com/lex/latest/dg/monitoring-aws-lex-cloudwatch.html