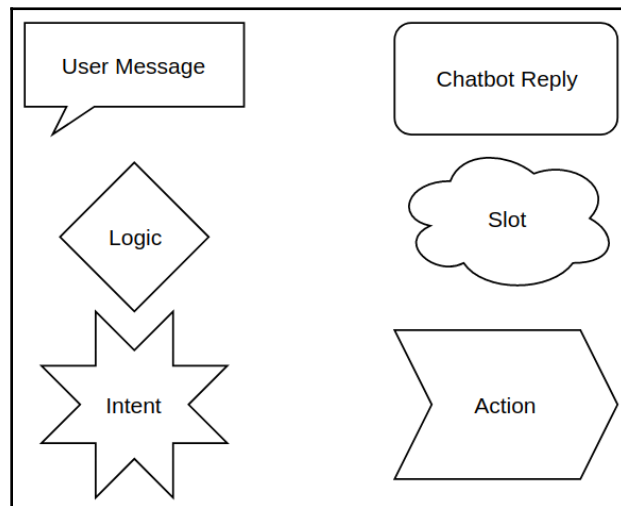
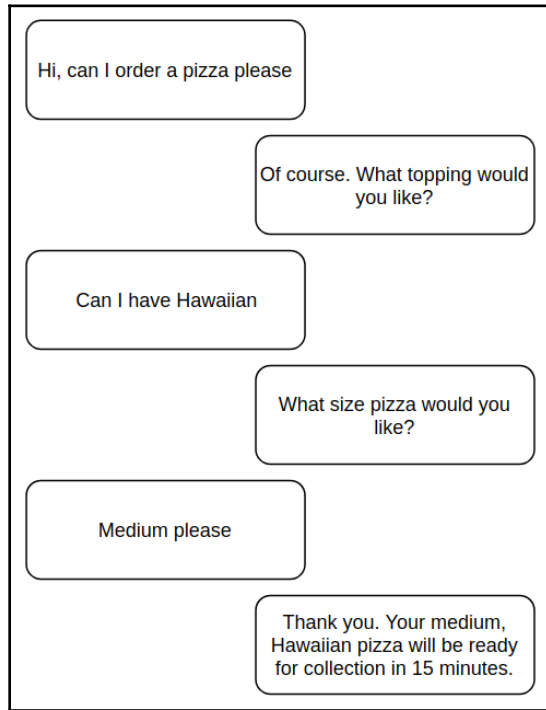
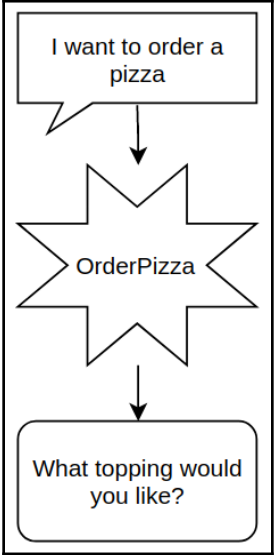
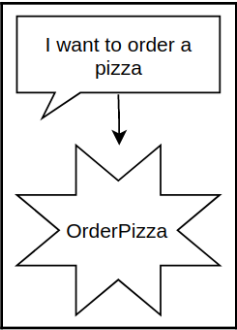
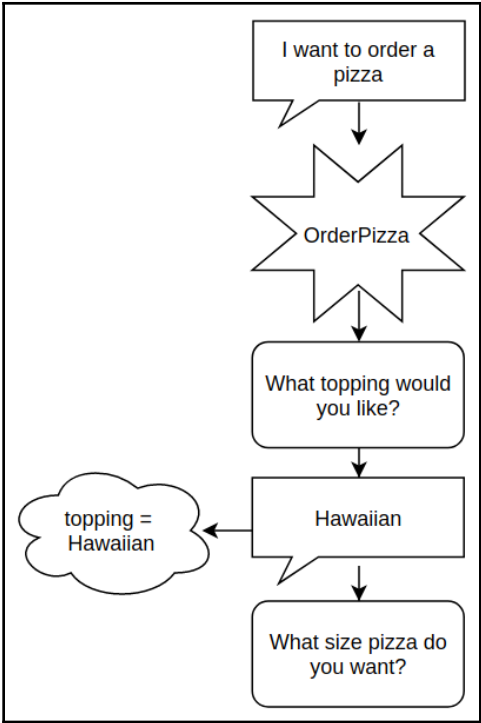
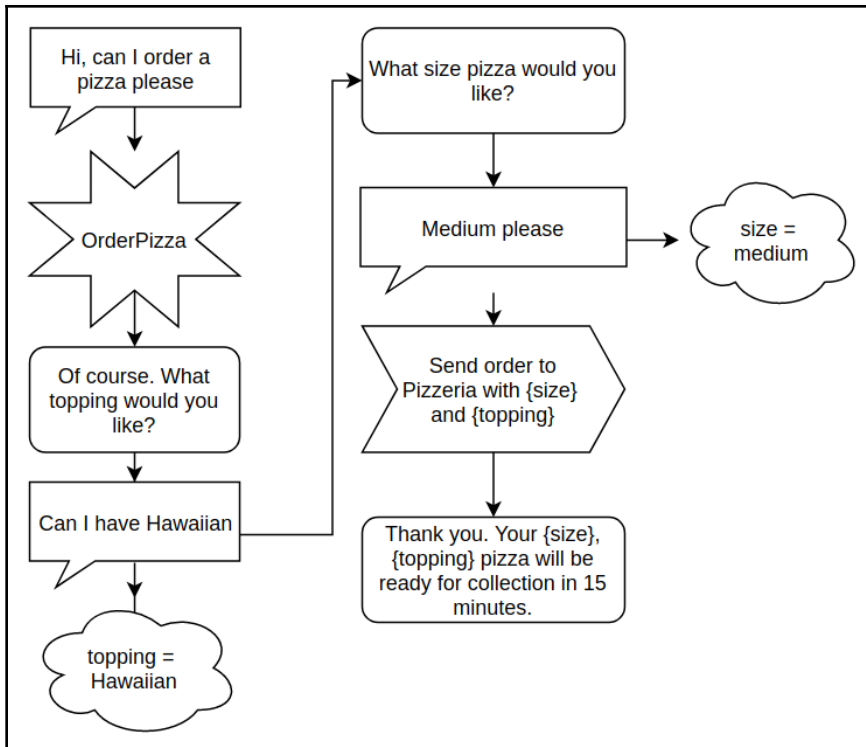


Chapter 01: Understanding Chatbots







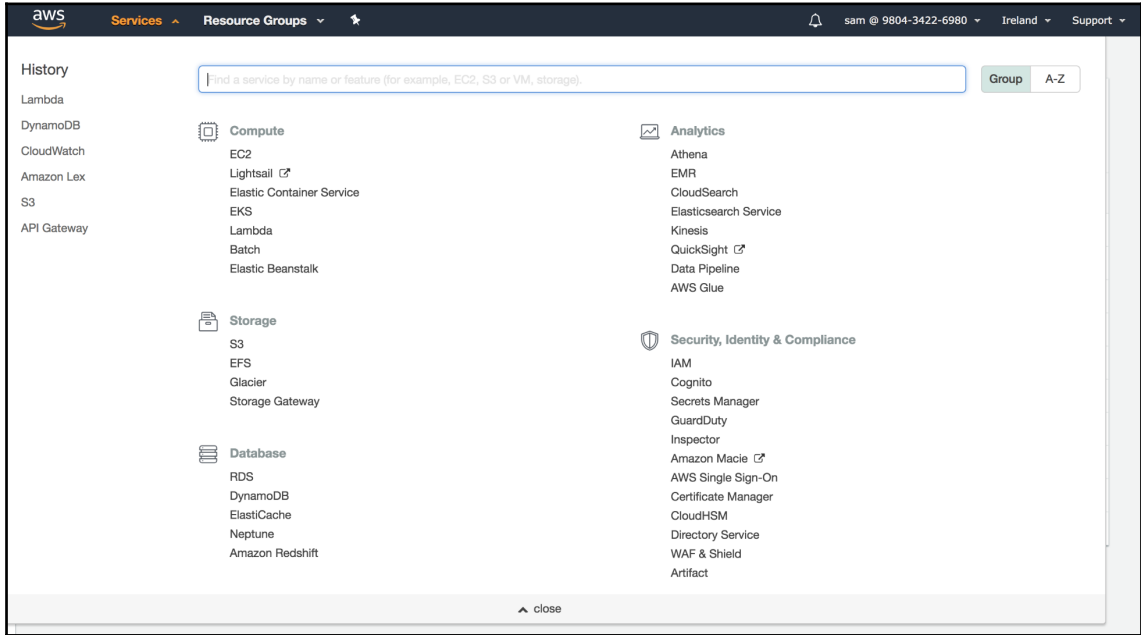



Failed Utterances Per Intent ?

No Metrics


There is no data for the selected time interval and aggregation period.

Chapter 02: Getting Started with AWS and Amazon CLI





Compute

- EC2
- Lightsail 
- Elastic Container Service
- EKS
- Lambda**
- Batch
- Elastic Beanstalk

Author from scratch [Info](#)

Name

Runtime

Role

Defines the permissions of your function. Note that new roles may not be available for a few minutes after creation. [Learn more](#) about Lambda execution roles.

Lambda will automatically create a role with permissions from the selected policy templates. Note that basic Lambda permissions (logging to CloudWatch) will automatically be added. If your function accesses a VPC, the required permissions will also be added.

Role name

Enter a name for your new role.

Policy templates

Choose one or more policy templates. A role will be generated for you before your function is created. [Learn more](#) about the permissions that each policy template will add to your role.

ARN - arn:aws:lambda:eu-west-1:095363550084:function:new-lambda



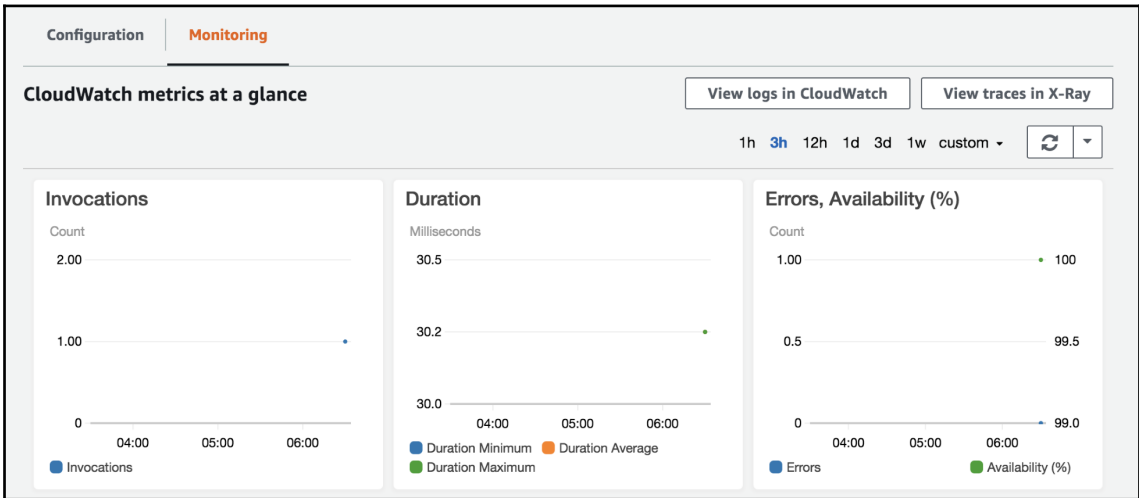
Execution Result +

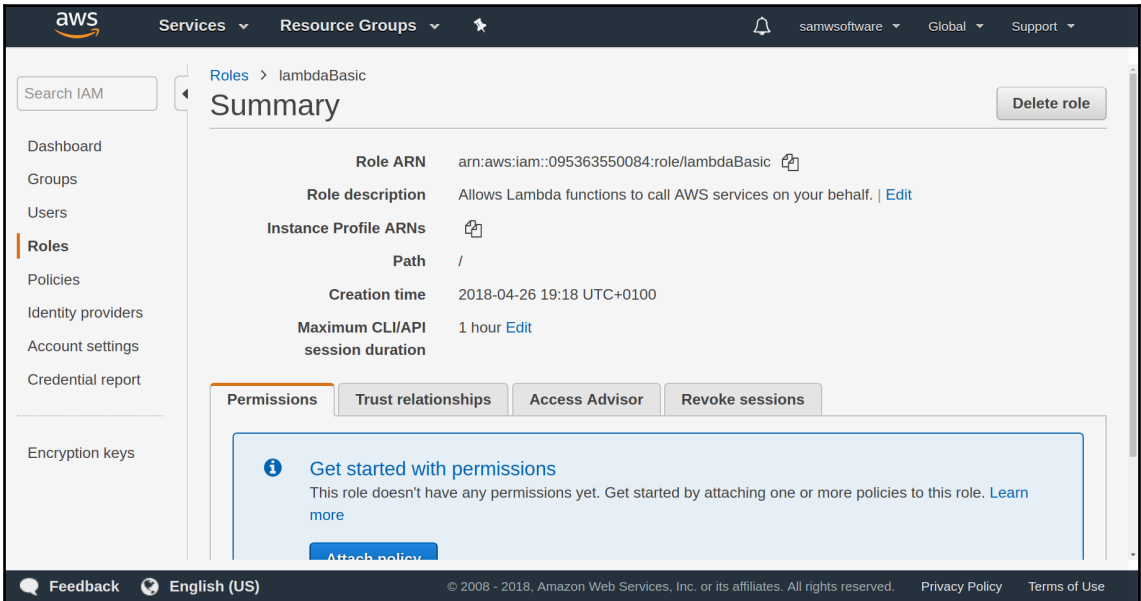
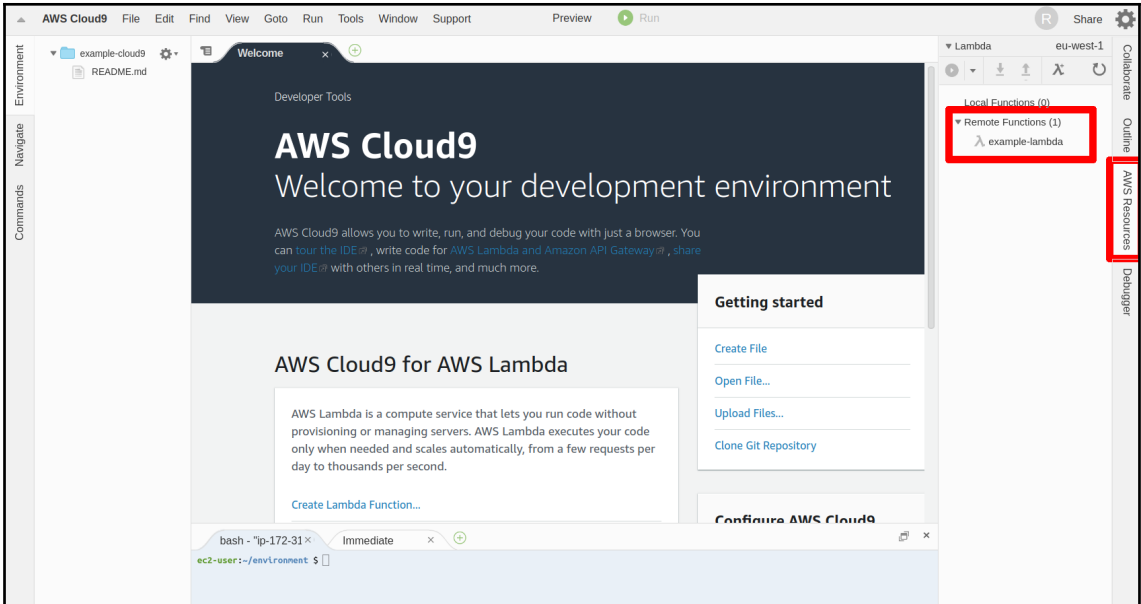
Execution results Status: Succeeded Max Memory Used: 44 MB Time: 30.24 ms

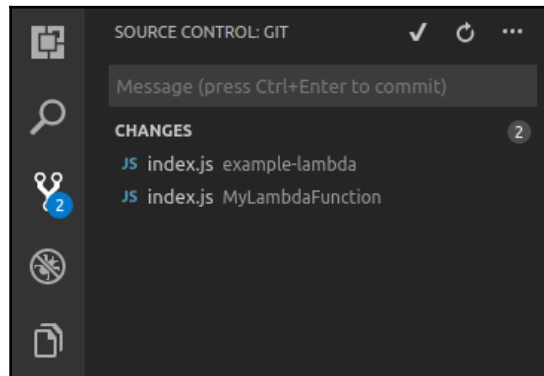
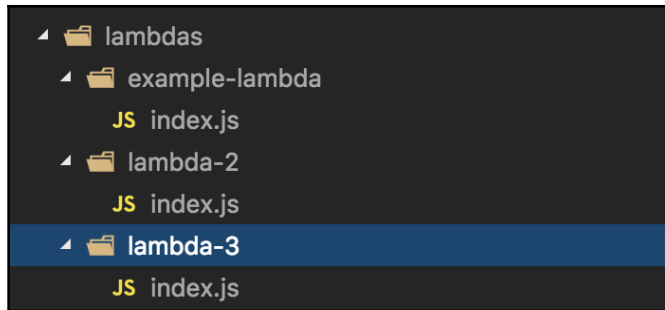
Response:
"Hi Sam, you are 24 years old."

Request ID:
"58e9b3e8-b19e-11e8-af3d-eb6b7cfe9a3e"

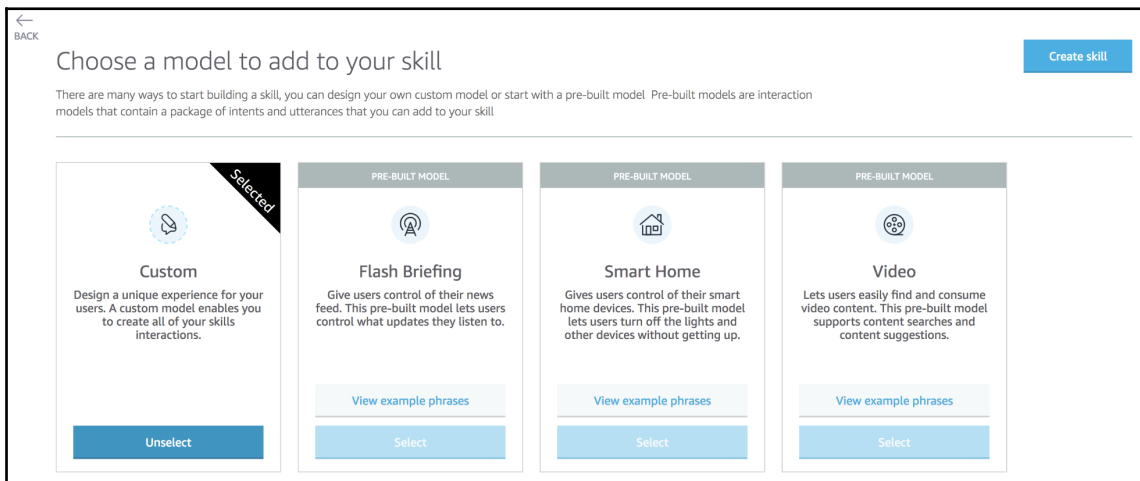
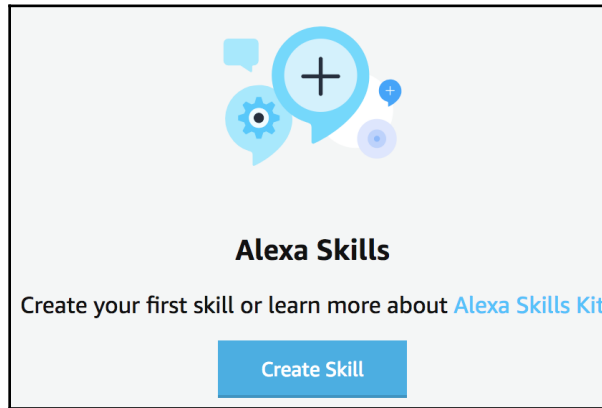
Function Logs:
 START RequestId: 58e9b3e8-b19e-11e8-af3d-eb6b7cfe9a3e Version: \$LATEST
 2018-09-06T06:30:29.473Z 58e9b3e8-b19e-11e8-af3d-eb6b7cfe9a3e { name: 'Sam', age: 24 }
 END RequestId: 58e9b3e8-b19e-11e8-af3d-eb6b7cfe9a3e
 REPORT RequestId: 58e9b3e8-b19e-11e8-af3d-eb6b7cfe9a3e Duration: 30.24 ms Billed Duration: 100 ms







Chapter 03: Creating Your First Alexa Skill



Invocation

Users say a skill's invocation name to begin an interaction with a particular custom skill.
For example, if the invocation name is "daily horoscopes", users can say:

User: Alexa, ask daily horoscopes for the horoscope for Gemini

Skill Invocation Name ?

e.g. tide pooler

Intents / hello

Sample Utterances (3) ?

What might a user say to invoke this intent?

hey

hi

hello

Lambda > Functions > alexa-sams-hello-skill

alexa-sams-hello-skill

Throttle Qualifiers ▼

Configuration Monitoring

▼ **Designer**

Add triggers
Click on a trigger from the list below to add it to your function.


API Gateway


AWS IoT

Alexa Skills Kit

Alexa Smart Home

CloudWatch Events

 alexa-sams

 **Alexa Skills Kit**
Configuration required

Add triggers from the list on the left

English (U.K.) Save Endpoints

CUSTOM

Interaction Model

Invocation

Intents (4) **Add**

- hello
- Built-in Intents (3)
 - AMAZON.CancelIntent
 - AMAZON.HelpIntent
 - AMAZON.StopIntent

Slot Types (0) **Add**

JSON Editor

Interfaces

Endpoint

ACCOUNT LINKING

PERMISSIONS

Endpoint

The Endpoint will receive POST requests when a user interacts with your Alexa Skill. The request body contains parameters that your service can use to perform logic and generate a JSON-formatted response. Learn more about Lambda endpoints [here](#). You can host your own HTTPS web service endpoint as long as the service meets the requirements described [here](#).

Service Endpoint Type

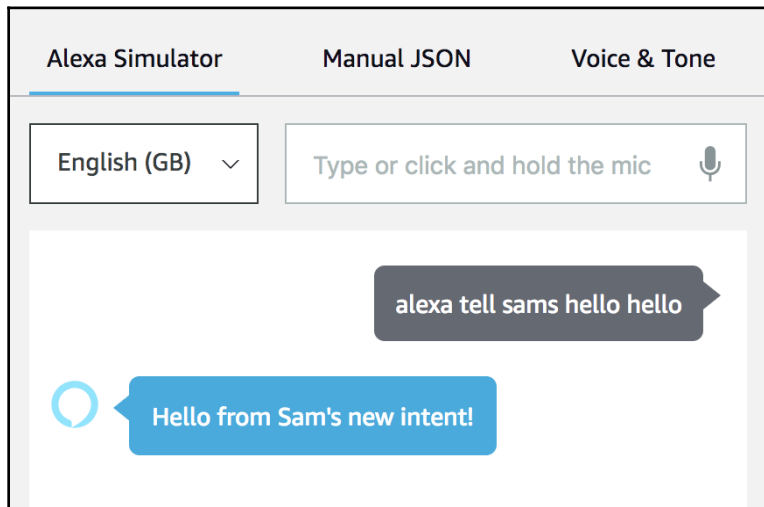
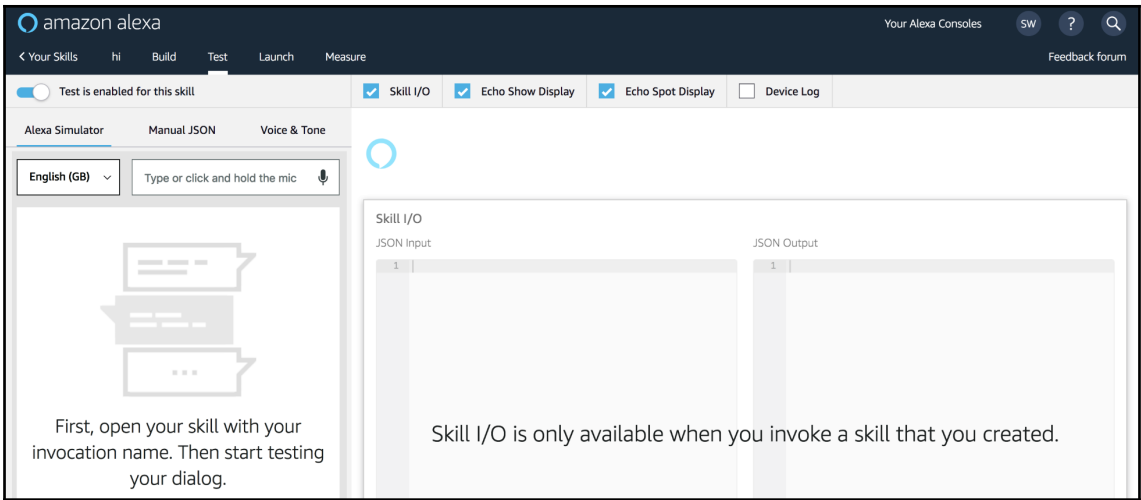
Select how you will host your skill's service endpoint.

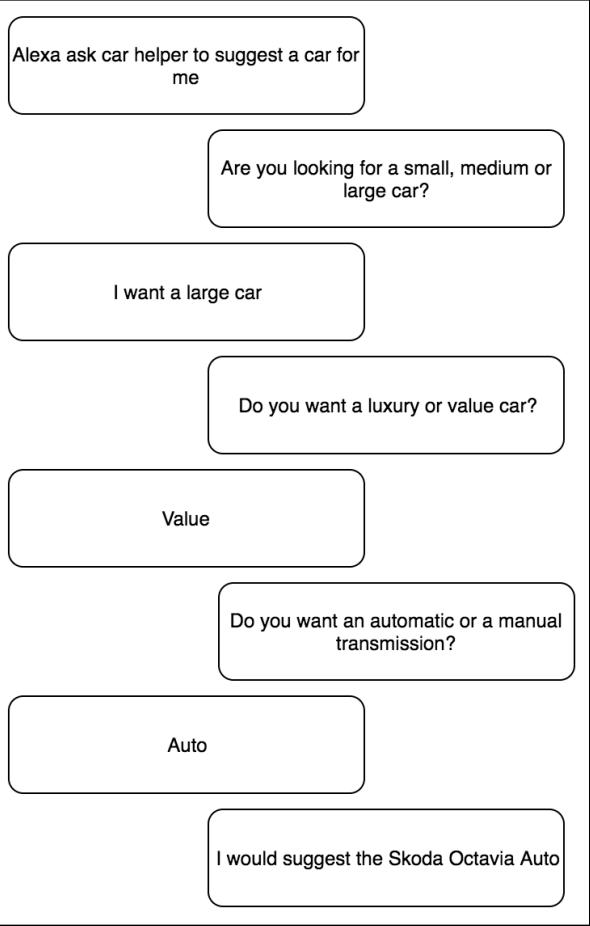
AWS Lambda ARN (Recommended)

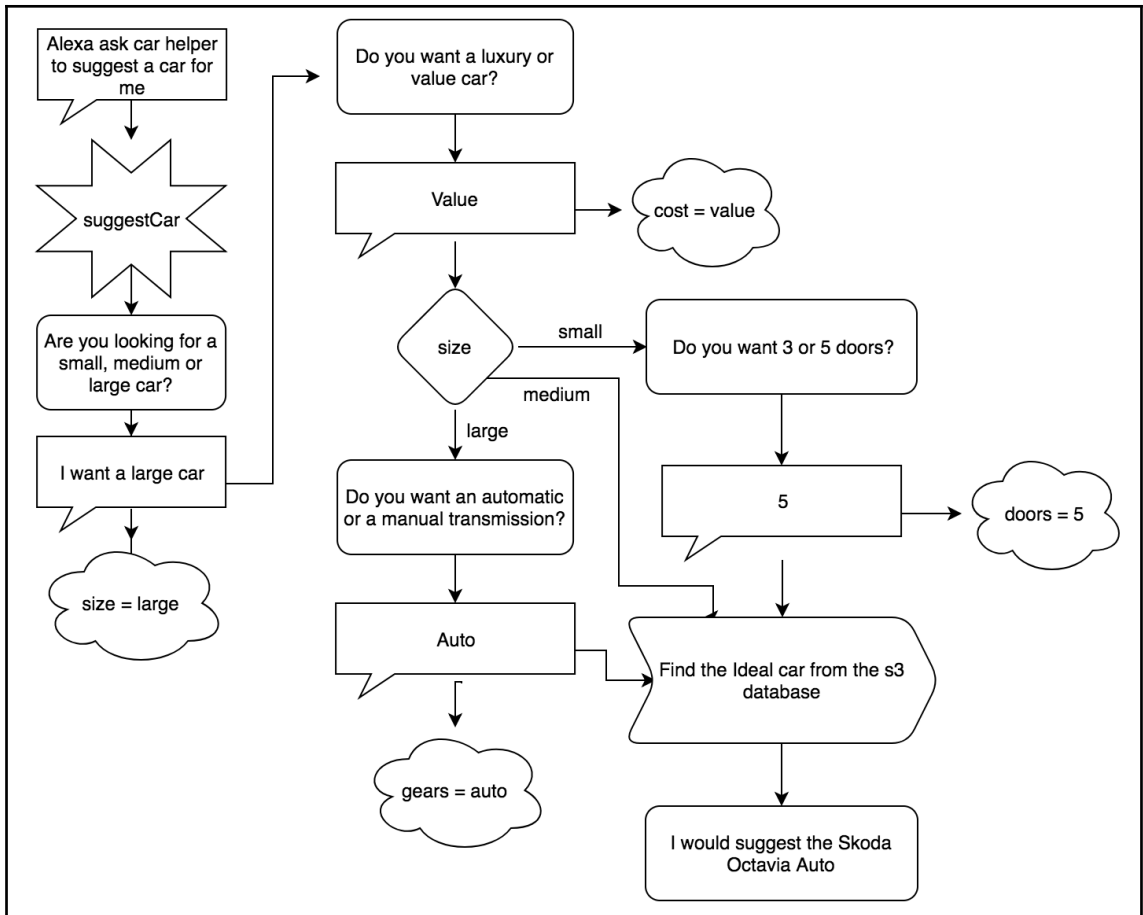
Your Skill ID **Copy to Clipboard**

Default Region (Required)

North America (Optional)







Intents / whichCar

Sample Utterances (4) ?

What might a user say to invoke this intent?



















what car do you suggest

what car I should get

what car should I get

which car should I get

Intent Slots (4) ?

| ORDER ? | NAME ? | SLOT TYPE ? | ACTIONS |
|--|---|--|--|
|  1  |  size | Select a slot type  | Edit Dialog Delete |
|  2  |  doors | Select a slot type  | Edit Dialog Delete |
|  3  |  gears | Select a slot type  | Edit Dialog Delete |
|  4  |  cost | Select a slot type  | Edit Dialog Delete |
| 5 | Create a new slot |  Select a slot type  | Edit Dialog Delete |

Slot Types / carSize

Slot Values (3) ?

Search



Enter a new value for this slot type



| VALUE ? | ID (OPTIONAL) ? | SYNONYMS (OPTIONAL) ? | | | |
|---------|-----------------|-----------------------|---|----------------------|--|
| large | Enter ID | Add synonym | + | saloon x big x | |
| medium | Enter ID | Add synonym | + | middle x hatchback x | |
| small | Enter ID | Add synonym | + | city x tiny x mini x | |

< 1 - 3 of 3 > Show All

Slot Filling

Is this slot required to fulfill the intent? ?



Alexa speech prompts ?

What will Alexa say to prompt the user to fill this slot?

Are you looking for a small, medium or large car?

User utterances ?

What might a user say in response to the above prompt(s)?

{size}

I'm looking for a {size} car





I want a {size} car

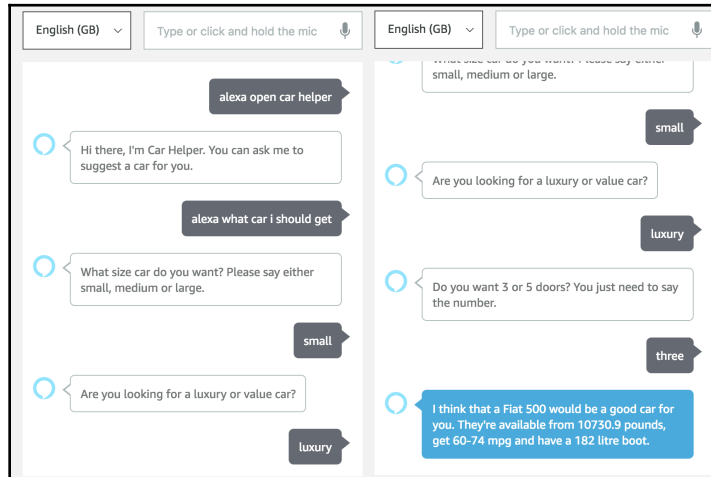
Intent Slots (4) ?

| ORDER ? | NAME ? | SLOT TYPE ? |
|----------------------|----------------------|--------------------------|
| 1 | ● size | carSize |
| 2 | ● doors | AMAZON.NUMBER |
| 3 | ● gears | carGear |
| 4 | ● cost | carCost |
| 5 | Create a new slot | + Select a slot type |

Attach policy

Filter: Policy type

| | Policy name | Type |
|-------------------------------------|---|------------------|
| <input type="checkbox"/> |  AmazonDMSRedshiftS3Role | AWS managed |
| <input type="checkbox"/> |  AmazonS3FullAccess | AWS managed |
| <input checked="" type="checkbox"/> |  AmazonS3ReadOnlyAccess | AWS managed |
| <input type="checkbox"/> | AWSLambdaS3ExecutionRole-2775d516-ba47-4e44-ba95-8c0f95d... | Customer managed |
| <input type="checkbox"/> |  QuickSightAccessForS3StorageManagementAnalyticsReadOnly | AWS managed |



The screenshot shows a chatbot interface with two panels. The left panel shows the initial interaction: a user says "alexa open car helper", the bot responds "Hi there, I'm Car Helper. You can ask me to suggest a car for you.", the user says "alexa what car i should get", the bot asks "What size car do you want? Please say either small, medium or large.", the user says "small", the bot asks "Are you looking for a luxury or value car?", and the user says "luxury". The right panel shows the final recommendation: the bot asks "Do you want 3 or 5 doors? You just need to say the number.", the user says "three", and the bot provides a recommendation: "I think that a Fiat 500 would be a good car for you. They're available from 10730.9 pounds, get 60-74 mpg and have a 182 litre boot."



English (UK) Store Preview

Tell us how your skill should appear to English (UK) customers.

Public Name * [?](#)

Skill Name

10/50 characters

One Sentence Description * [?](#)

Enter a short description (160 character maximum) about your skill...

0/160 characters

Detailed Description * [?](#)

Enter an engaging description of the skill's purpose, features, and how it works...

0/4,000 characters

Chapter 04: Connecting Your Alexa Skills to External APIs

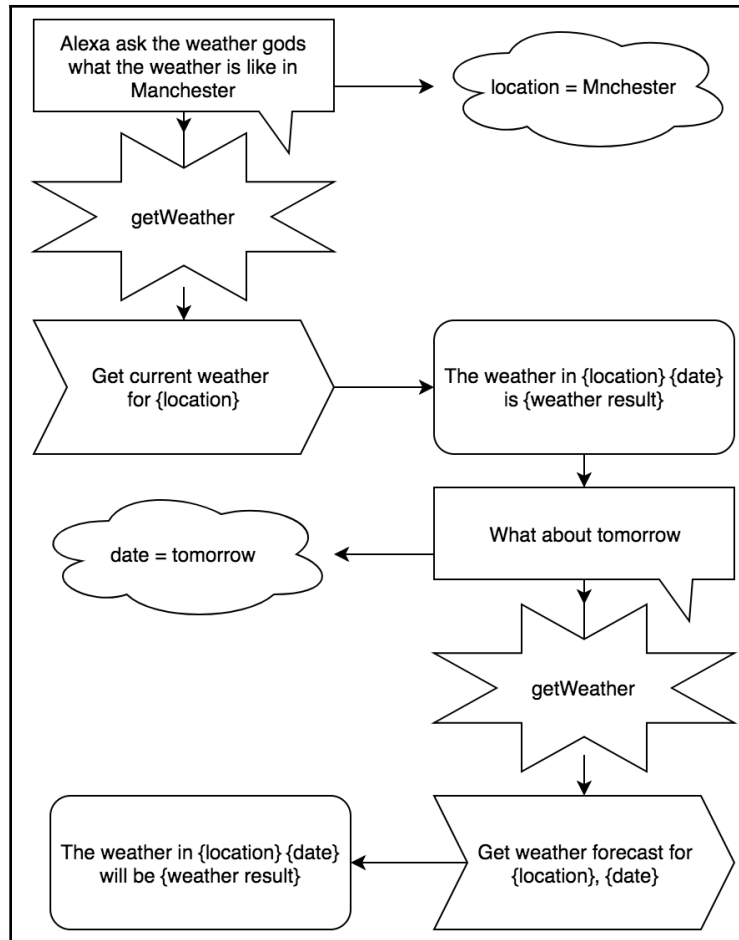
The screenshot shows the OpenWeatherMap website's API keys management interface. At the top, the OpenWeatherMap logo is on the left, and navigation links for Weather, Maps, API, Price, Partners, Stations, Widgets, News, and About are on the right. Below the navigation bar, the page title is "API keys" with a "Home" link on the right. A secondary navigation bar includes links for Setup, API keys (which is underlined), My Services, My Payments, Billing plans, Map editor, Block logs, and History bulk, along with a "Logout" button on the far right. A light blue informational banner states: "Activation of an API key for Free and Startup accounts takes 10 minutes. For other accounts it takes from 10 to 60 minutes. You can generate as many API keys as needed for your subscription. We accumulate the total load from all of them." Below this banner, there is a table with two columns: "Key" and "Name". The first row shows a key value (partially obscured by a red box) and the name "Default". To the right of the "Name" column, there are icons for editing and deleting. To the right of the table is a "Create key" section with a text input field labeled "* Name" and a "Generate" button below it.



Alexa ask the weather gods what the weather is like in Manchester

The weather in Manchester is currently 13 degrees and cloudy with a 30 percent chance of rain

What about tommorrow

The weather in Manchester tomorrow will be 16 degrees and sunny in the morning and 18 degrees and partly sunny in the afternoon



| Intent Slots (2) ? | | | |
|---------------------------------|--|---|---|
| ORDER ? | NAME ? | SLOT TYPE ? | ACTIONS |
| ^ 1 v |  location | <input type="text" value="AMAZON.US_CITY"/> | Edit Dialog Delete |
| ^ 2 v |  date | <input type="text" value="AMAZON.DATE"/> | Edit Dialog Delete |
| 3 | Create a new slot | + <input type="text" value="Select a slot type"/> | Edit Dialog Delete |

Sample Utterances (6) ?

What might a user say to invoke this intent?

whats {date} weather in {location}

what about for {location}

what is the weather like {date}

what about {date}

what is the weather forecast for {location} {date}

Environment variables

You can define Environment Variables as key-value pairs that are accessible from your function code. These are useful to store configuration settings without the need to change function code. [Learn more](#).

► Encryption configuration



Skill builder checklist

Complete these steps to be able to test your skill using the simulator in the test tab, or with your echo device.

REQUIRED

1. Invocation Name >

Enter an invocation name for your skill



REQUIRED

2. Intents, Samples, and Slots >

Add at least one intent and one sample utterance



REQUIRED

3. Build Model >

Successfully build your interaction model




REQUIRED

4. Endpoint >

Set a web service endpoint to handle skill requests



English (GB) ▾ Type or click and hold the mic 

alexa open the weather gods

You may ask the weather gods about the weather in your city or for a weather forecast

what's the weather like tomorrow in liverpool

The weather in Liverpool 2018-06-26 will have clear sky with a temperature of 11 degrees Celsius and a humidity of 64 percent, whilst in the afternoon it will have clear sky with a temperature of 24 degrees Celsius and a humidity of 46 percent

Intents / tellAJoke

Sample Utterances (4) ?

What might a user say to invoke this intent?

| |
|------------------------|
| tell me another one |
| tell me a weather joke |
| make me laugh |
| tell me a joke |

alexa ask the weather god's what the weather is like on friday in manchester



The weather in Manchester 2018-06-29 will have clear sky with a temperature of 18 degrees Celsius and a humidity of 92 percent, whilst in the afternoon it will have clear sky with a temperature of 25 degrees Celsius and a humidity of 61 percent

what about in london



The weather in London 2018-06-29 will have clear sky with a temperature of 18 degrees Celsius and a humidity of 89 percent, whilst in the afternoon it will have clear sky with a temperature of 30 degrees Celsius and a humidity of 65 percent

what about today



The weather in London has thunderstorm and light rain with a temperature of 18 degrees Celsius and a humidity of 100 percent

alexa ask the weather gods what the weather is like in manchester



The weather in Manchester has scattered clouds with a temperature of 16 degrees Celsius and a humidity of 63 percent

alexa ask the weather gods to tell me a joke



Where do snowmen keep their money? In a snow bank

Chapter 05: Building Your First Amazon Lex Chatbot

Create your Lex 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.

CREATE YOUR OWN

TRY A SAMPLE

Custom bot

BookTrip

OrderFlowers

ScheduleAppointment

Getting started with your bot

Welcome to your bot editor. You can start right away by adding an intent using the [+](#) button in the Intents section of the left navigation.

[+ Create Intent](#)

Components of your bot.

- Intents**: A particular goal that the user wants to achieve
- Utterances**: Spoken or typed phrases that invoke your intent
- Slots**: Data the user must provide to fulfill the intent
- Prompts**: Questions that ask the user to input data
- Fulfillment**: The business logic required to fulfill the user's intent

The diagram shows a conversation flow: a user says "I'd like to book a hotel.", the bot asks "Sure, which city?", the user says "New York City", the bot asks "What date do you check in?", the user says "Yes.", and the bot responds "Thank you. The reservation went through successfully." The intent "BookHotel" is highlighted in the diagram.

helloBot Latest ▾ Build Publish ?

Editor Settings Channels Monitoring

Intents +

sayHello

Slot types +

No slots created

Error Handling

sayHello Latest ▾

▼ Sample utterances ⓘ

e.g. I would like to book a flight. +

▼ Lambda initialization and validation ⓘ

Initialization and validation code hook

▼ Slots ⓘ

| Priority | RequiredName | Slot type | Version | Prompt |
|----------|--------------|-----------------|---------|---------------------|
| | e.g. Locatic | e.g. AMAZO... ▾ | | e.g. What city ⚙️ + |

▶ Confirmation prompt ⓘ

▼ Fulfillment ⓘ

AWS Lambda function Return parameters to client

▼ Response ⓘ


+ Add Message

▼ Fulfillment ⓘ

AWS Lambda function Return parameters to client

▼ Response ⓘ

[▶ Preview](#)

|| Message Custom Markup ⓘ 

One of these messages will be presented at random.

e.g. Thank you. Your {Drink_Name} has been ordered. +

Hi there ×

Hey ×


+ Add Message

> **Test Bot (Latest)** ✔️ READY

Hi

Hi there

[Clear chat history](#)



Publish shoppingBot ✕

Publishing is the last step before you can connect your bot to your mobile app or chatbot.

Choose an alias ⓘ

[Create a new alias](#)

Cancel Publish

▼ Slots ⓘ

| Priority | Required | Name | Slot type | Version | Prompt | | |
|----------|-------------------------------------|--|---|----------|---|-----------------|----------------|
| | | <input type="text" value="e.g. Location"/> | <input type="text" value="e.g. AMAZON.U..."/> | | <input type="text" value="e.g. What city?"/> | ⚙️ | + |
| 1. | <input checked="" type="checkbox"/> | <input type="text" value="userName"/> | <input type="text" value="AMAZON.GB_FI..."/> | Built-in | <input type="text" value="What is your nam"/> | ⚙️ | ✕ |

> Test Bot (Latest) 🟢 READY


Hi

What is your name?

Sam

Hi there Sam

[Clear chat history](#)

 Chat to your bot...

Upload Create folder More ▾

| <input type="checkbox"/> | Name ↑ |
|--------------------------|----------------|
| <input type="checkbox"/> | faq-other.json |
| <input type="checkbox"/> | faq-setup.json |
| <input type="checkbox"/> | faq-users.json |

Intents

- cancelExistingContract
- contract
- costOutsidePlan
- dataUsage
- extraNumbers
- extraUsers
- headsets
- howItWorks
- internationalCountries

▼ Fulfillment

AWS Lambda function Return parameters to client

Lambda function ▾

[View in Lambda console](#)

Version or alias ▾

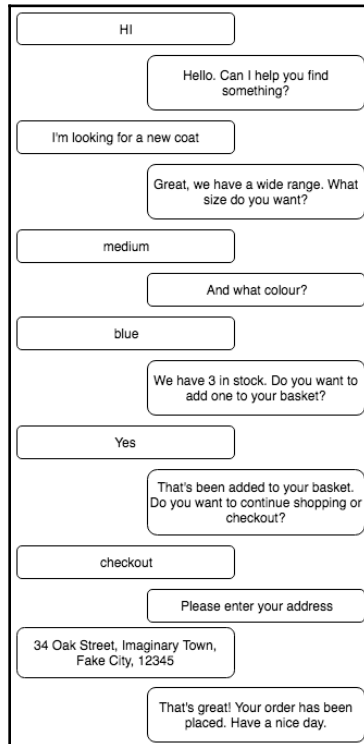
what do I get with unlimited

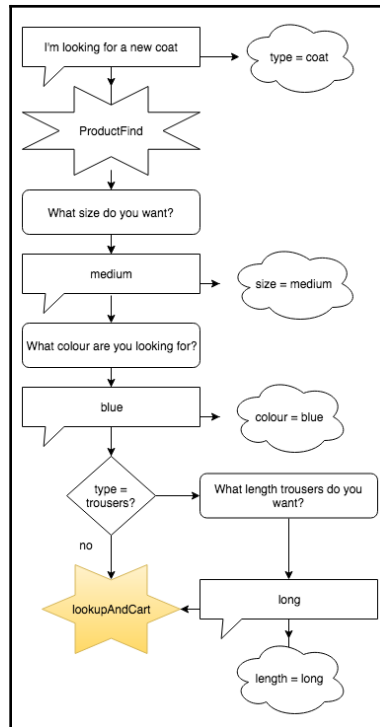
Unlimited calls to UK 01, 02, 03 numbers and major network 07 numbers are included, along with calls to USA, Canada and Ireland (with a small number of exceptions) within fair usage limits.

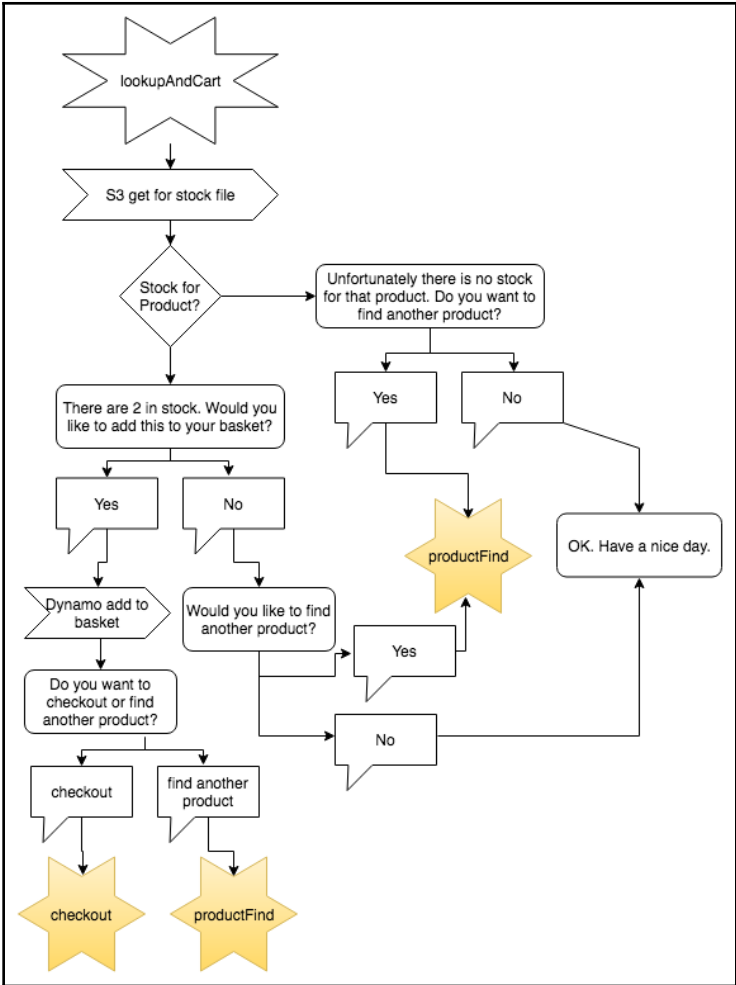
do you have headsets

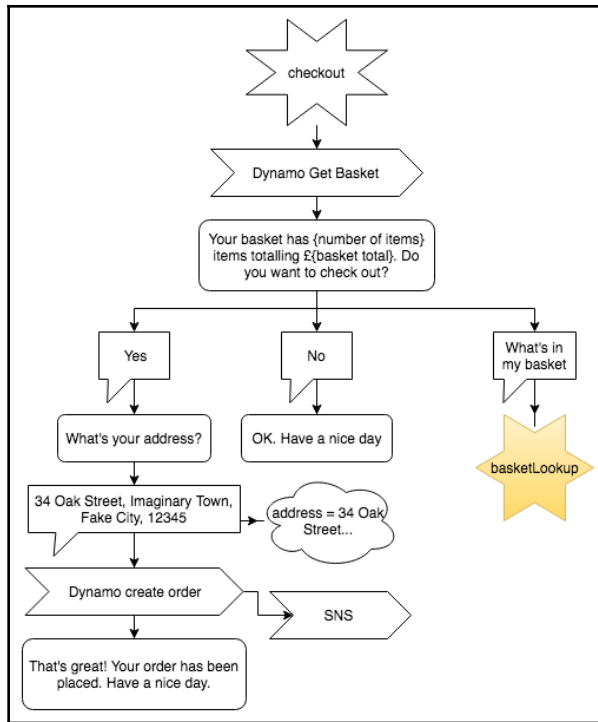
Yes. CircleLoop supports USB/Bluetooth headsets. We can recommend phone headsets that have been fully tested with CircleLoop. Please note that we don't support traditional IP deskphones.

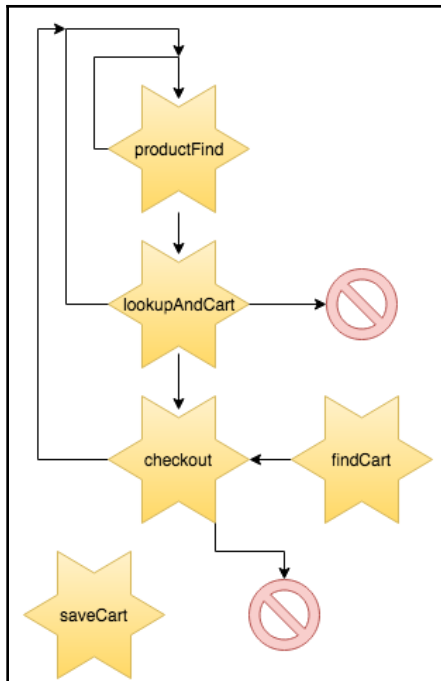
Chapter 06: Connecting a Lex Bot to DynamoDB











▼ Sample utterances ⓘ

+

Do you have any {size} {colour} {type} ×

I want item {itemNumber} ×

Do you have any {size} {type} in stock ×


I want to buy a {colour} {type} ×

I want to buy a {type} ×

i want to buy something ×

▼ Slots ⓘ

| Priority | Required | Name | Slot type | Version | Prompt |
|----------|--------------------------|--|--|----------|--|
| | | <input type="text" value="e.g. Location"/> | <input type="text" value="e.g. AMAZON.US_CITY"/> | | <input type="text" value="e.g. What city?"/> |
| 1. | <input type="checkbox"/> | <input type="text" value="type"/> | <input type="text" value="clothingType"/> | Latest | <input type="text" value="Are you looking for a shirt, jacket"/> |
| 2. | <input type="checkbox"/> | <input type="text" value="colour"/> | <input type="text" value="clothingColour"/> | Latest | <input type="text" value="What colour do you want"/> |
| 3. | <input type="checkbox"/> | <input type="text" value="size"/> | <input type="text" value="clothingSize"/> | Latest | <input type="text" value="What size do you want?"/> |
| 4. | <input type="checkbox"/> | <input type="text" value="length"/> | <input type="text" value="trouserLength"/> | Built-in | <input type="text" value="What length trousers do you want"/> |
| 5. | <input type="checkbox"/> | <input type="text" value="itemNumber"/> | <input type="text" value="AMAZON.NUMBER"/> | Built-in | <input type="text" value="e.g. What city?"/> |




Amazon DynamoDB


Amazon DynamoDB is a fast and flexible NoSQL database service for all applications that need consistent, single-digit millisecond latency at any scale. Its flexible data model and reliable performance make it a great fit for mobile, web, gaming, ad-tech, IoT, and many other applications.

[Create table](#)


[Getting started guide](#)



Create tables



Add and query items



Monitor and manage tables

Create DynamoDB table

Tutorial



DynamoDB is a schema-less database that only requires a table name and primary key. The table's primary key is made up of one or two attributes that uniquely identify items, partition the data, and sort data within each partition.

Table name*

shopping-cart



Primary key*

Partition key

ID

String



Add sort key

Attach policy

Filter: Policy type

Q dyn

| | Policy name | Type |
|-------------------------------------|--|-------------|
| <input type="checkbox"/> | ▶ AmazonDynamoDBFullAccess | AWS managed |
| <input type="checkbox"/> | ▶ AmazonDynamoDBFullAccesswithDataPipeline | AWS managed |
| <input type="checkbox"/> | ▶ AmazonDynamoDBReadOnlyAccess | AWS managed |
| <input checked="" type="checkbox"/> | ▶ AWSLambdaDynamoDBExecutionRole | AWS managed |
| <input type="checkbox"/> | ▶ AWSLambdaInvocation-DynamoDB | AWS managed |

| Priority | Required | Name | Slot type | Version | Prompt |
|----------|-------------------------------------|-----------------|----------------------|----------|------------------------|
| | | e.g. Location | e.g. AMAZON.US_CITY | | e.g. What city? |
| 1. | <input checked="" type="checkbox"/> | deliveryAddress | AMAZON.PostalAddress | Built-in | What address do you wa |

Sample utterances

- e.g. I would like to book a flight.
- can I save my cart
- I want to save my basket
- can I save my basket
- I want to save my cart

shopping-cart Close

Overview Items Metrics Alarms Capacity **Indexes** Global Tables Backups Triggers More

Create index Delete index

| Name | Status | Type | Partition key | Sort key | Attributes | Read capacity | Wr |
|--|--------|------|---------------|----------|------------|---------------|----|
| <p>Global Secondary Indexes (GSI) allow you to query efficiently over any field (attribute) in your DynamoDB table. GSIs can treat any table attribute as a key, even attributes not present in all items. More info</p> | | | | | | | |

▼ Sample utterances **i**

i want to retrieve my saved cart

get my saved cart

get my **{cartName}** cart

I want to get cart **{cartName}**

I want to buy a shirt

What size of shirt are you looking for?

medium

What colour would you like?

red

There are 8 red shirt in stock. Would you like to add one to your basket?

Would you like to checkout, add another item to your cart or save your cart for later?

add another item

Are you looking for a shirt, jacket or trousers?

Would you like to checkout, add another item to your cart or save your cart for later?

save my cart

You need to save your cart with a name. What do you want to call it?

mySavedCart

Your cart has been saved. Type "find my cart" next time and enter "mySavedCart" to get this cart.

get my saved cart

What was the name you saved your cart to?

mySavedCart

We have got your cart for you. Would you like to checkout or add another product?

We have got your cart for you. Would you like to checkout or add another product?

what is in my cart

You have 1 medium, standard, blue pairs of trousers in your cart. Would you like to checkout, save your cart or add another item?

checkout

What address do you want your products delivered to?

10 Downing St, London SW1A 2AB

Thank you. Your order has been placed and will be delivered in 3-5 working days

Chapter 07: Publishing Your Chatbot to Facebook, Slack, Twilio, and HTTP

The screenshot shows the Lex chatbot console interface. At the top, there's a breadcrumb navigation for 'shoppingBot Latest' and buttons for 'Build' and 'Publish'. Below this are tabs for 'Editor', 'Settings', 'Channels', and 'Monitoring'. The 'Channels' tab is active, showing a list of channels on the left: Facebook, Kik, Slack, and Twilio SMS. The main content area is titled 'Facebook' and contains instructions: 'Fill in the form below and click activate to get a callback URL to use with Facebook. You can generate multiple callback URLs. [Learn more](#) on steps to integrate with Facebook.' The form includes three fields: 'Channel Name*' (with an info icon), 'Channel Description' (with an info icon), and 'IAM Role' (set to 'AWSServiceRoleForLexChannels' with an info icon and the note 'Automatically created on your behalf').

The screenshot shows the 'Create a New App ID' form in the Facebook Developer console. The title is 'Create a New App ID' with the subtitle 'Get started integrating Facebook into your app or website'. There are two input fields: 'Display Name' with the value 'ChatbotDevelopment' and 'Contact Email' with the placeholder 'Your Email Address'. At the bottom, there is a disclaimer: 'By proceeding, you agree to the Facebook Platform Policies' and two buttons: 'Cancel' and 'Create App ID'.

Token Generation

Page token is required to start using the APIs. This page token will have all messenger permissions even if your app is not approved to use them yet, though in this case you will be able to message only app admins. You can also generate page tokens for the pages you don't own using Facebook Login.

Page Page Access Token
[Create a new page](#)

ChatbotDevelopment **APP ID:** 285699028640527 OFF Status: In Development [View Analytics](#)

- Dashboard
- Settings
 - Basic
 - Advanced
- Roles
- Alerts
- App Review

PRODUCTS +

- Messenger

Activity Log

App ID: 285699028640527

App Secret: ●●●●●●●●

Display Name: ChatbotDevelopment


Namespace:

App Domains:

Contact Email: samwcoding@gmail.com

Privacy Policy URL: Privacy policy for Login dialog and App Details

Terms of Service URL: Terms of Service for Login dialog and App Details

App Icon (1024 x 1024):  1024 x 1024

Category: Find out more information about app categories [here](#)

Business Use

New Page Subscription ✕

Callback URL

Validation requests and Webhook notifications for this object will be sent to this URL.

Verify Token

Token that Facebook will echo back to you as part of callback URL verification.


Subscription Fields

| | | |
|--|---|---|
| <input type="checkbox"/> messages | <input type="checkbox"/> messaging_postbacks | <input type="checkbox"/> messaging_optins |
| <input type="checkbox"/> message_deliveries | <input type="checkbox"/> message_reads | <input type="checkbox"/> messaging_payments |
| <input type="checkbox"/> messaging_pre_checkouts | <input type="checkbox"/> messaging_checkout_updates | <input type="checkbox"/> messaging_account_linking |
| <input type="checkbox"/> messaging_referrals | <input type="checkbox"/> message_echoes | <input type="checkbox"/> messaging_game_plays |
| <input type="checkbox"/> standby | <input type="checkbox"/> messaging_handovers | <input type="checkbox"/> messaging_policy_enforcement |

[Learn more](#)

Cancel Verify and Save

Current Submission

 **pages_messaging**
Complete the [details](#) for this item before submitting.

Before you can submit for review, complete the following:

- Complete each of the items above.
- Your app must have App Icon (1024 x 1024) set. Please visit [Settings](#) to add one.
- Your app must have Privacy Policy URL set. Please visit [Settings](#) to add one.
- Your app must have Category set. Please visit [Settings](#) to add one.
- Your app must have Business Use set. Please visit [Settings](#) to add one.

Create a Slack App ✕



Interested in the next generation of apps?

We're improving app development and distribution. Join the API Preview period for workspace tokens and the Permissions API.

App Name

Don't worry; you'll be able to change this later.

Development Slack Workspace

Your app belongs to this workspace—leaving this workspace will remove your ability to manage this app. Unfortunately, this can't be changed later.

By creating a Web API Application, you agree to the [Slack API Terms of Service](#).

Select Permission Scopes

Add permission by scope or API method... ▼

CONVERSATIONS

Send messages as smartagent-helper

chat:write:bot



INTERACTIVITY

Add a bot user with the username @smartagent-helper

bot



WORKSPACE INFO

Access information about your workspace

team:read



Build with Programmable SMS

[You have a Trial Account](#) >


First let's get a Twilio phone number

In order to make calls or send messages through the Twilio API, you need to get a Twilio phone number.

[Get a number](#)

Your first Twilio Phone Number ✕

+441261606018 Don't like this one? [Search for a different number](#)

 This United Kingdom phone number has the following capabilities:



-  **Voice:** This number can receive incoming calls and make outgoing calls.
-  **SMS:** This number can send and receive text messages to and from mobile numbers.

Cancel Choose this Number

Create a New Messaging Service ✕

Name your new Messaging Service, then configure it in the following steps.

FRIENDLY NAME


USE CASE  Chat Bot/Interactive 2-Way 


Cancel Create

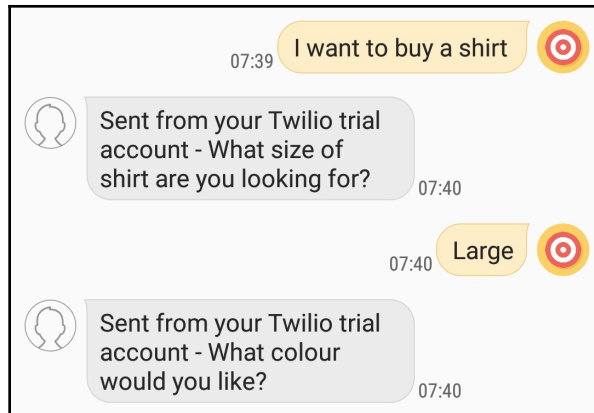
Inbound Settings

To receive inbound messages on the phone numbers associated with your Messaging Service, configure your Inbound Request URL. [Learn more](#) ↗

PROCESS INBOUND MESSAGES If enabled, Twilio will make a synchronous HTTP request to your Request URL for each message you receive.

REQUEST URL HTTP POST 

FALLBACK URL HTTP POST 



Create new API

In Amazon API Gateway, an API refers to a collection of resources and methods that can be invoked through HTTPS endpoints.

New API Clone from existing API Import from Swagger Example API

Settings

Choose a friendly name and description for your API.

| | |
|---------------|---|
| API name* | <input type="text" value="LexbotAPI"/> |
| Description | <input type="text" value="An API for accessing Lex"/> |
| Endpoint Type | <input type="text" value="Regional"/> ⓘ |

* Required [Create API](#)

Resources **Actions** / Methods

RESOURCE ACTIONS

- Create Method
- Create Resource**
- Enable CORS
- Edit Resource Documentation

API ACTIONS

- Deploy API
- Import API
- Edit API Documentation
- Delete API

New Child Resource

Use this page to create a new child resource for your resource. ⓘ

Configure as [proxy resource](#) ⓘ

Resource Name*

Resource Path*

You can add path parameters using brackets. For example, the resource path **{username}** represents a path parameter called 'username'. Configuring **/{proxy+}** as a proxy resource catches all requests to its sub-resources. For example, it works for a GET request to /foo. To handle requests to /, add a new ANY method on the / resource.

Enable API Gateway CORS ⓘ

* Required

[Cancel](#) [Create Resource](#)

Resources Actions ▾

▼ /

/shopping-bot

POST ▾ ✓ ✕

Choose the integration point for your new method.

Integration type

- Lambda Function ⓘ
- HTTP ⓘ
- Mock ⓘ
- AWS Service ⓘ
- VPC Link ⓘ

Use Lambda Proxy integration ⓘ

Lambda Region eu-west-1 ▾

Lambda Function

lex-shopping-api ⓘ

Use Default Timeout ⓘ

Save

Enable CORS

Gateway Responses for `testsetsetes API` DEFAULT 4XX DEFAULT 5XX ⓘ

Methods GET OPTIONS ⓘ

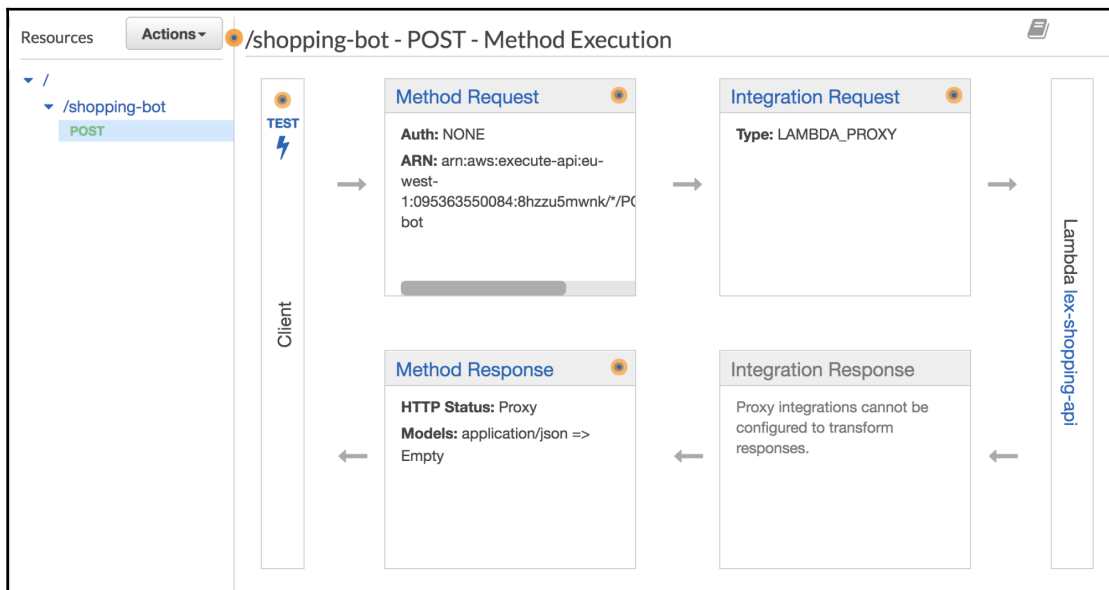
Access-Control-Allow-Methods GET, OPTIONS ⓘ

Access-Control-Allow-Headers 'Content-Type,X-Amz-Date,Authorizatio ⓘ

Access-Control-Allow-Origin* '*' ⓘ

▶ Advanced

Enable CORS and replace existing CORS headers



Deploy API ✕

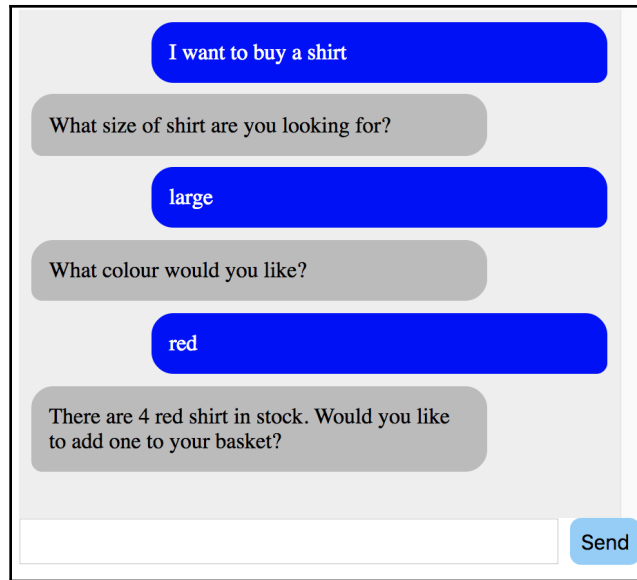
Choose a stage where your API will be deployed. For example, a test version of your API could be deployed to a stage named beta.

| | |
|------------------------|---|
| Deployment stage | <input type="text" value="[New Stage]"/> |
| Stage name* | <input type="text" value="production"/> |
| Stage description | <input type="text" value="The production version of the API."/> |
| Deployment description | <input type="text" value="API with access to shoppingBot"/> |

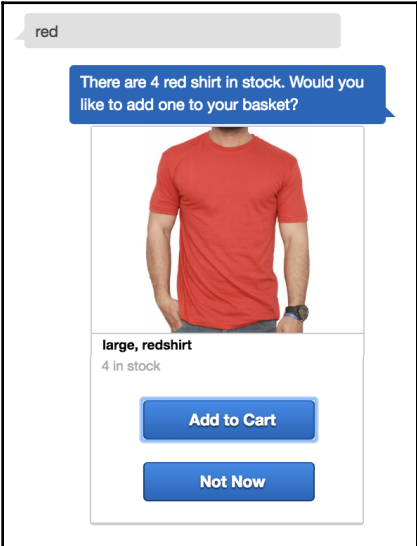
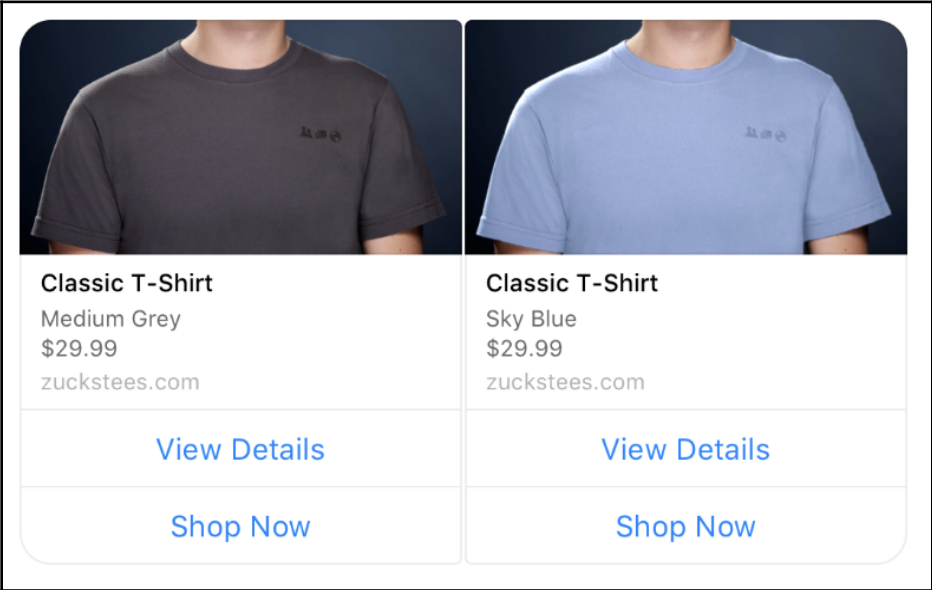
Cancel Deploy

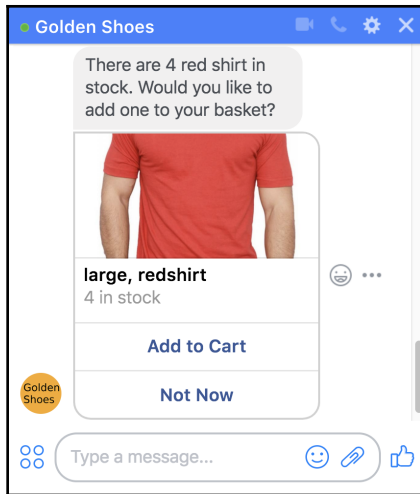
i want to buy a shirt
What size of shirt are you looking for?
large
What colour would you like?
red
There are 4 red shirt in stock. Would you like to add one to your basket?

Send



Chapter 08: Improving the User Experience for Your Bots





Intent Slots (2) ?

| ORDER ? | NAME ? | SLOT TYPE ? | ACTIONS |
|----------------------|--|--------------------------|--|
| 1 | ● query | AMAZON.SearchQuery | Edit Dialog Delete |
| 2 | ● city | AMAZON.US_CITY | Edit Dialog Delete |
| 3 | Create a new slot | + Select a slot type | Edit Dialog Delete |

Sample Utterances (6) ?

What might a user say to invoke this intent?

What is there to see in {city}

search for a {query}

What is in {city}

does {query}


is there a {query}

Google Cloud Platform weatherGodsAPI

API Library

places

- API Places API
- API Places SDK for Android
- API Places SDK for iOS

 **Places API**
Google

Get detailed information about 100 million places

ENABLE

Type
APIs & services

Last updated
7/10/18, 12:47 AM

Category
Maps

Service name
places-backend.googleapis.com

Overview

Get data from the same database used by Google Maps. Places features over 100 million businesses and points of interest that are updated frequently through owner-verified listings and user-moderated contributions.

- [Place search](#) Return a list of places based on a user's location or search string.
- [Place details](#) Return detailed information about a specific place, including user reviews.
- [Place autocomplete](#) can be used to automatically fill in the name and/or address of a place as you type.
- [Query autocomplete](#) can be used to provide a query prediction service for text-based geographic searches, by returning suggested queries as you type.
- [Place photos](#) gives you access to the millions of Place related photos stored in Google's Place database.

API key
Identifies your project using a simple API key to check quota and access

OAuth client ID
Requests user consent so your app can access the user's data



Service account key
Enables server-to-server, app-level authentication using robot accounts

Help me choose
Asks a few questions to help you decide which type of credential to use

Create credentials ▾

Environment variables

You can define Environment Variables as key-value pairs that are accessible from your function code. These are useful to store configuration settings without the need to change function code. [Learn more](#).

| | | |
|----------------|---|--------|
| API_KEY |  | Remove |
| GOOGLE_API_KEY |  | Remove |
| <i>Key</i> | <i>Value</i> | Remove |

► Encryption configuration

alexasktheweathergods what there is in manchester

What are you looking for in Manchester

catholic cathedral

There's 1 catholic cathedral in Manchester. the Salford Cathedral

alexasktheweathergods what there is in manchester

What are you looking for in Manchester

saint paul's primary school

There's 1 saint Paul's primary school in Manchester. the Saint Paul's Church of England Primary School

< shoppingBot Latest ▾

Editor Settings Channels

Charts

Monitoring Graphs

Tables

Utterances

Utterances

Add utterance to Intent ▼

Filter:

Detected

Missed

| <input type="checkbox"/> | Utterances ▼ | Count ▼ | Status |
|--------------------------|------------------|---------|--------|
| <input type="checkbox"/> | add another item | 2 | Missed |
| <input type="checkbox"/> | how old are you | 1 | Missed |
| <input type="checkbox"/> | can I buy stuff | 1 | Missed |
| <input type="checkbox"/> | Yes | 1 | Missed |
| <input type="checkbox"/> | mySavedCart | 1 | Missed |