Building Alexa Skills

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Alexa Skill Crash Course

User says: Alexa, Open Pizza King!

Alexa replies: Welcome to Pizza King.
You can get started by saying I would like to order a pizza

User says: I'd like to order a pizza

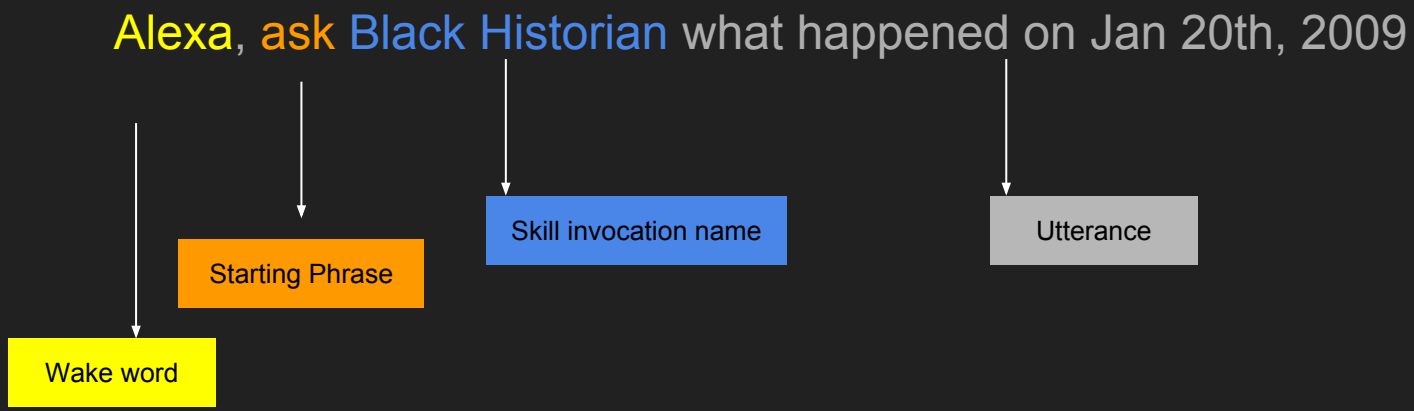
Alexa replies: Would you like a small , medium or large pizza?

Building an Alexa Skill

All skills contain two parts: *Interaction Model* (the frontend) and the *Hosted Service* (the backend).

- Interaction Model (frontend) — Much like the graphical user interface (appearance) of a mobile app, Alexa skills need a Voice User Interface (VUI).
- We refer to the VUI as the interaction model — it defines what functionalities or behaviors the skill is able to handle.
- Hosted Service (backend) — The programming logic, hosted on the internet, that responds to a user's requests.

Interacting with an Alexa Skill



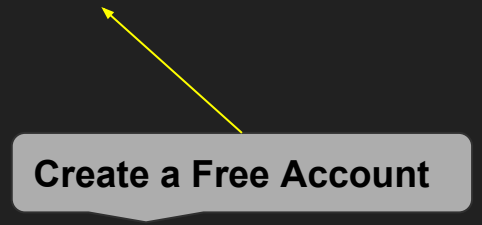
Ways to invoke / call an Alexa skill

Alexa, open (**invocation Name goes here**)

Alexa, tell (**invocation Name goes here**) to (**Utterance**)

Alexa, (**invocation Name goes here**)

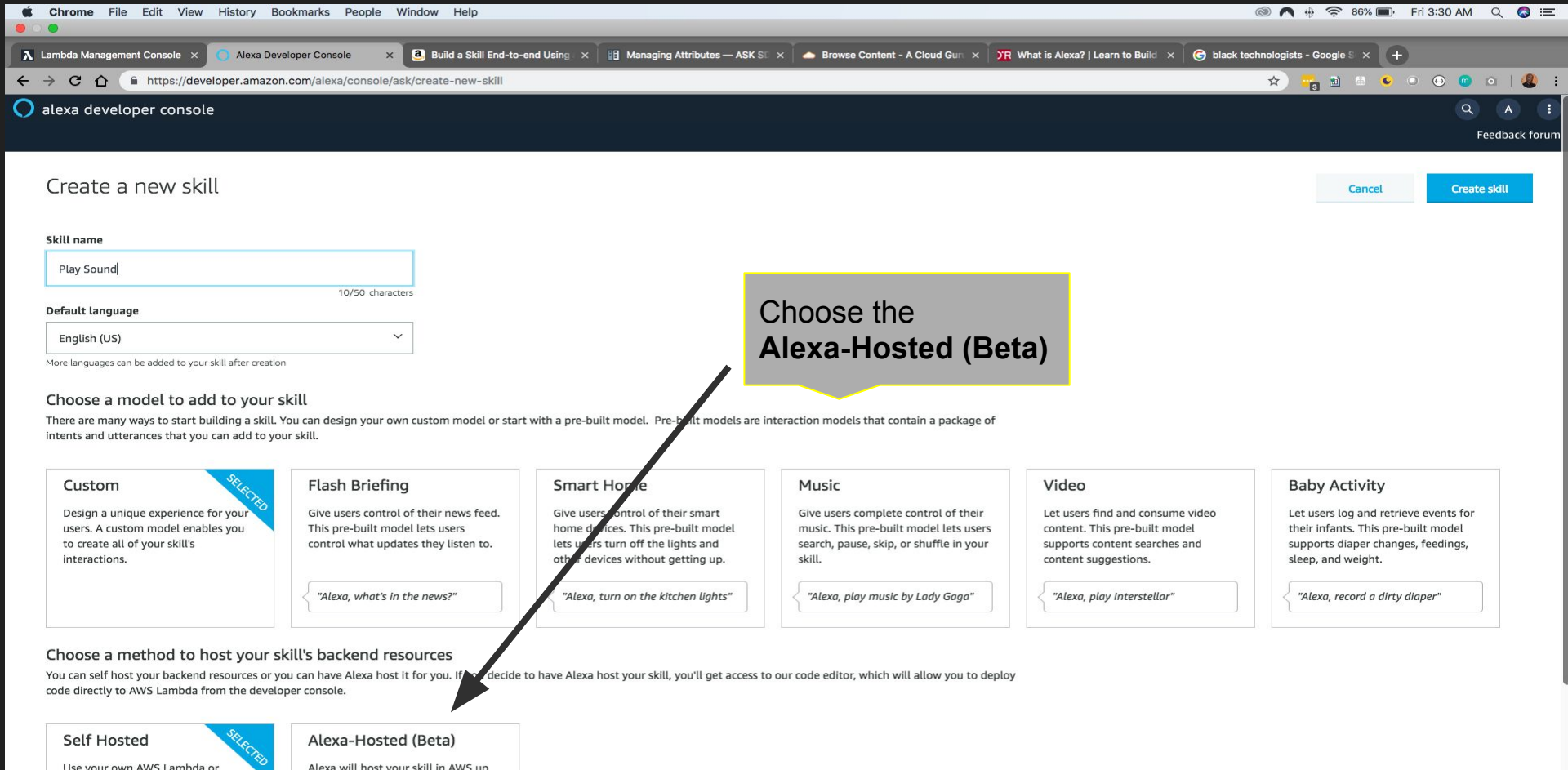
Let’s get Started!



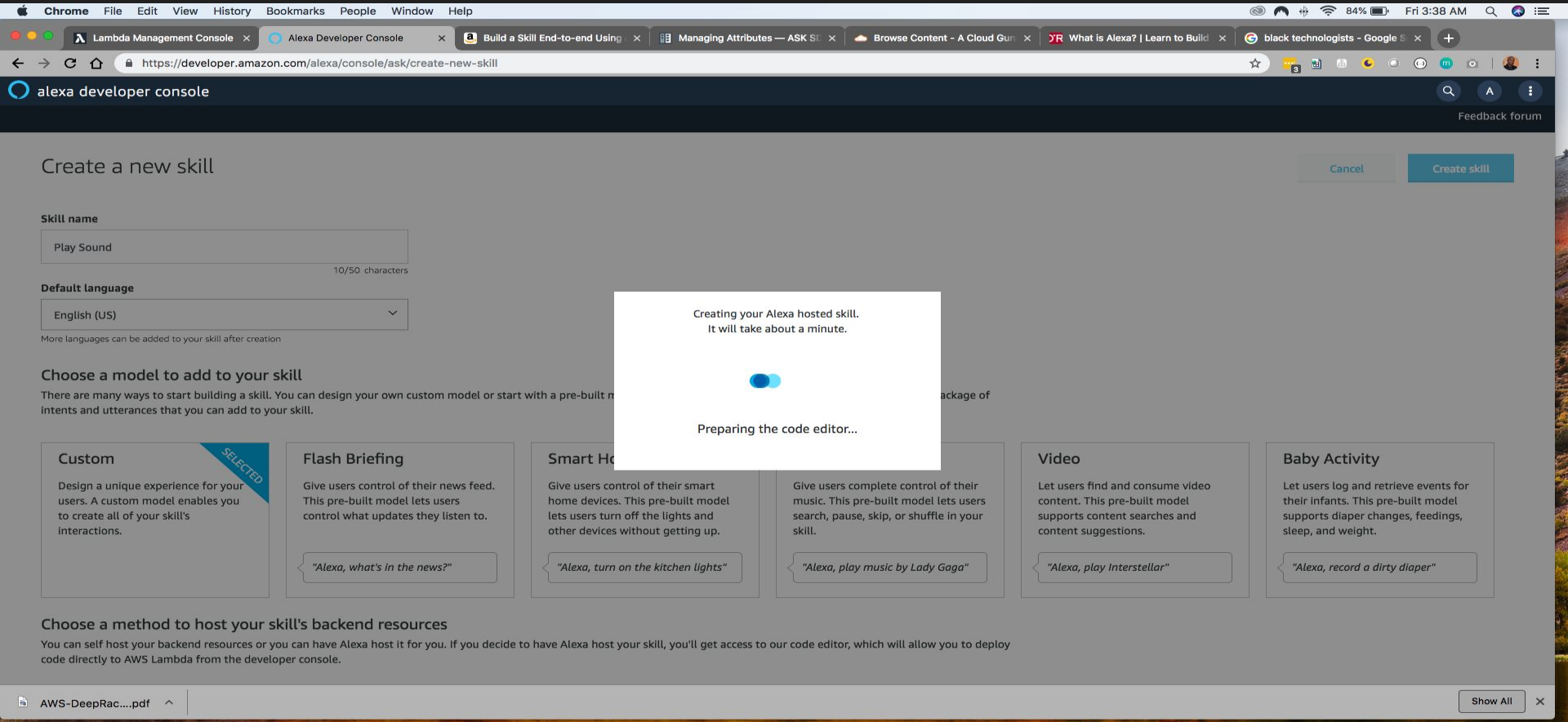
Head over to : https://developer.amazon.com/alexa

Sign in or create an account

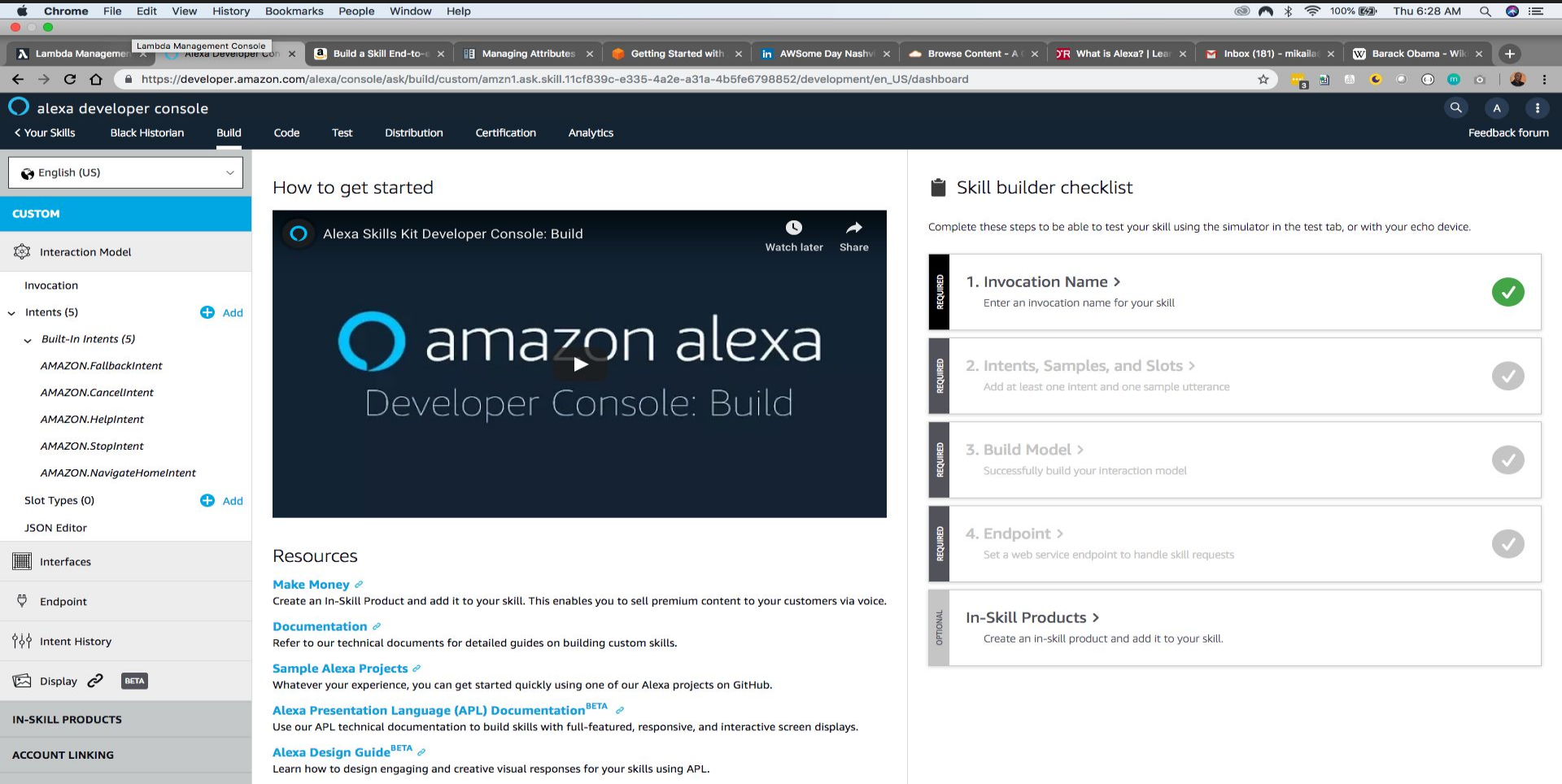
Building the frontend / VUI



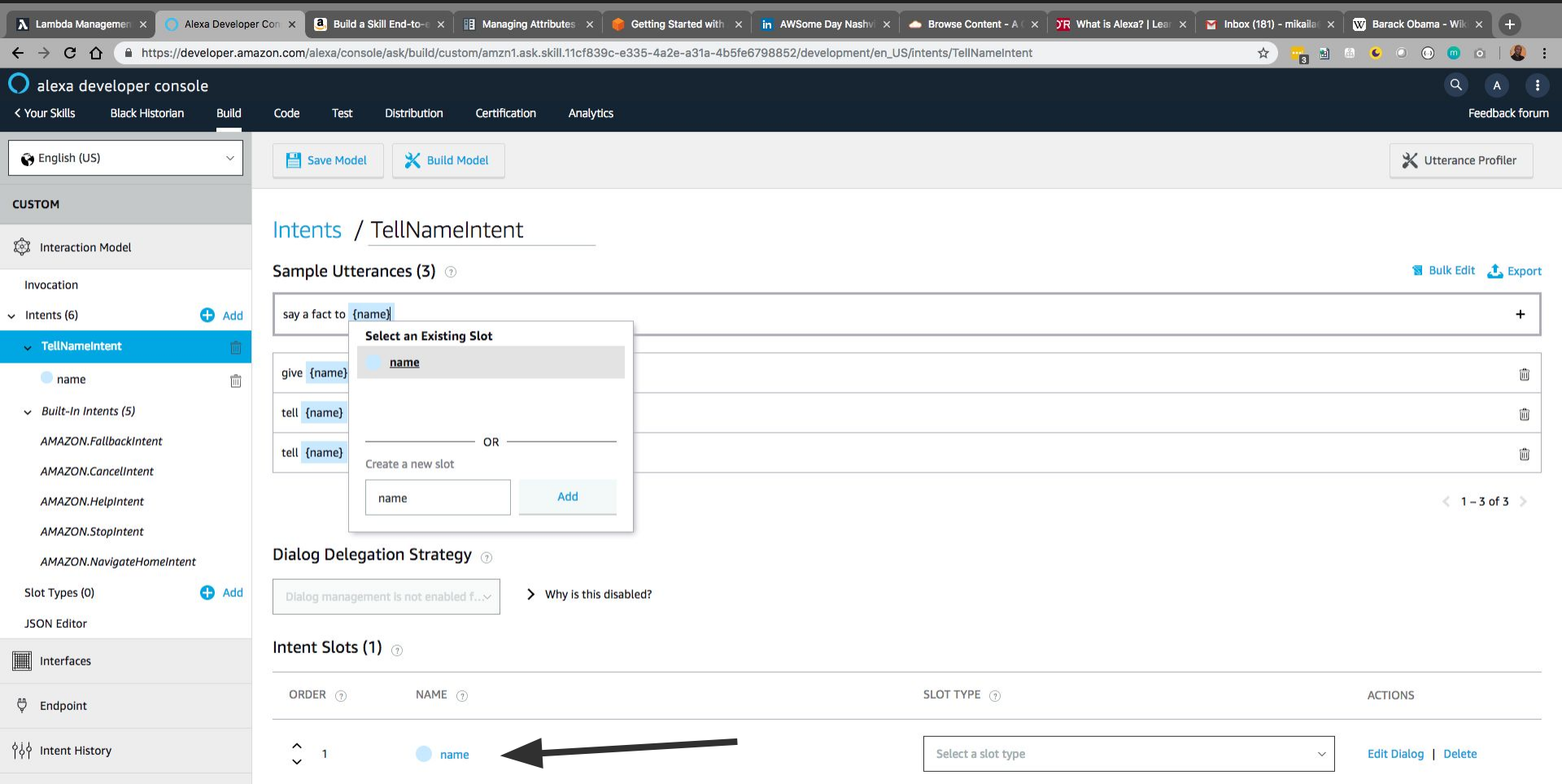
Generating and connecting backend to frontend….



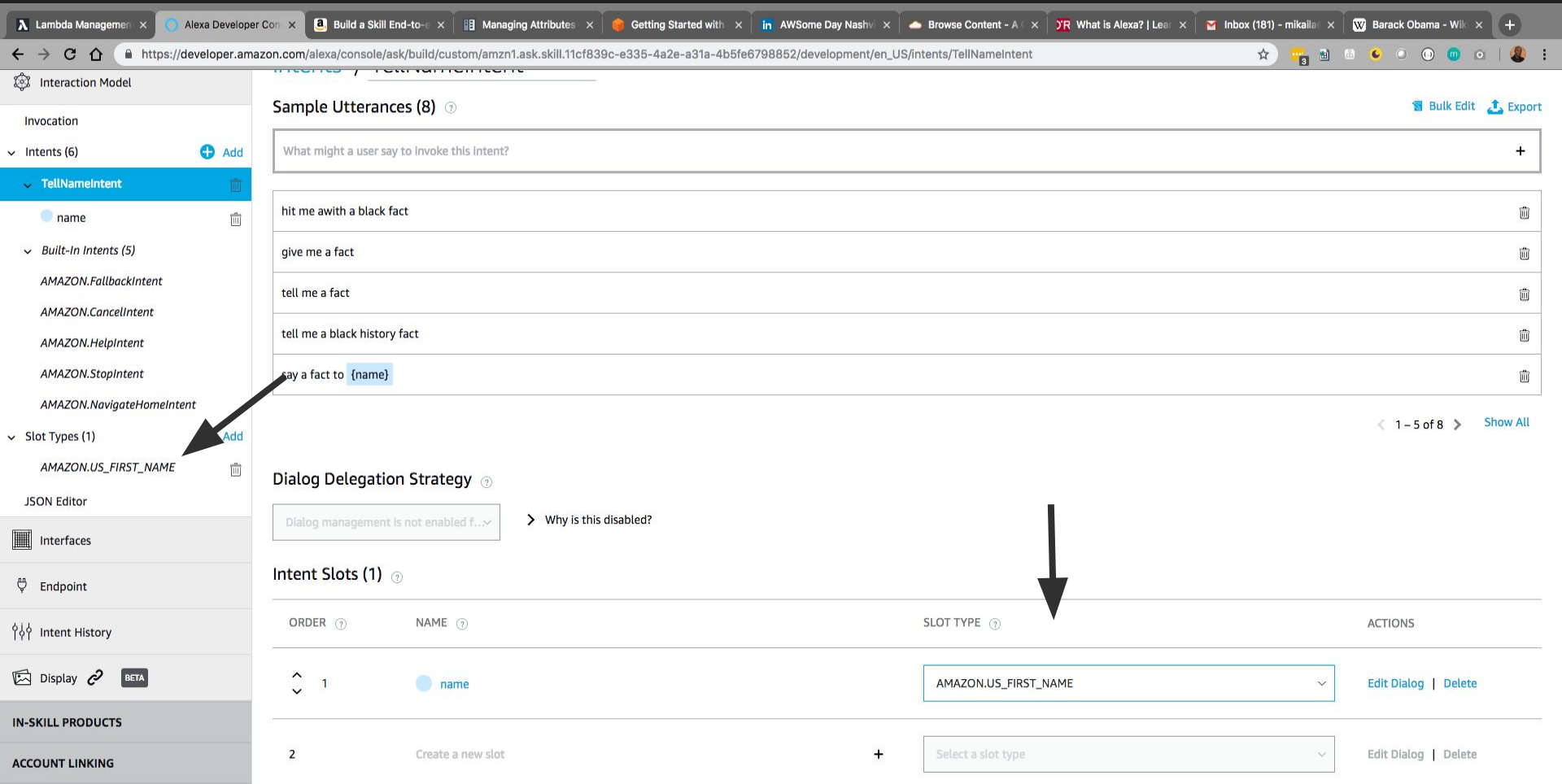
Building our Interaction Model - Utterances



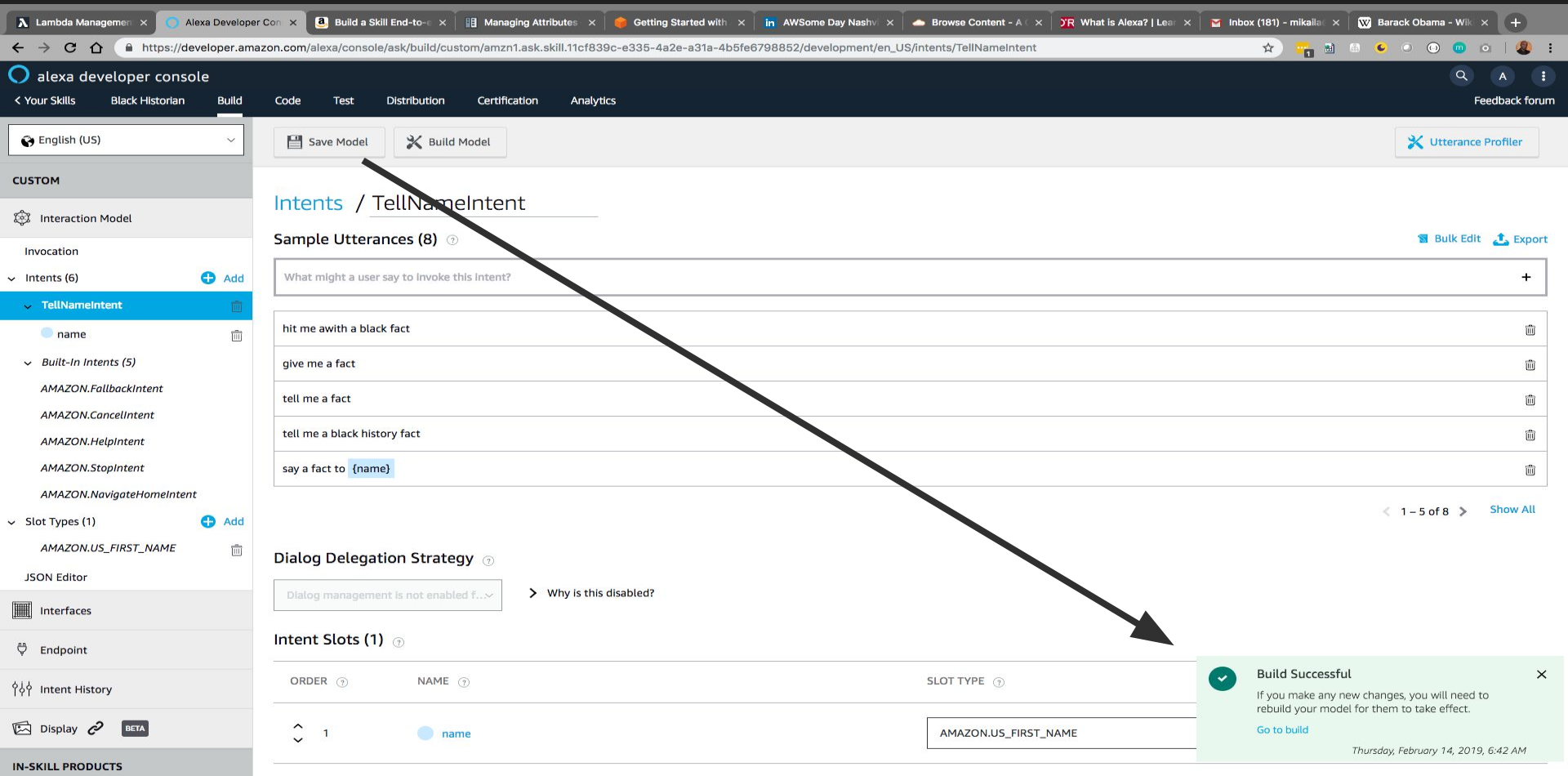
Building our Interaction Model - Slots



Building our Interaction Model - Slot Types



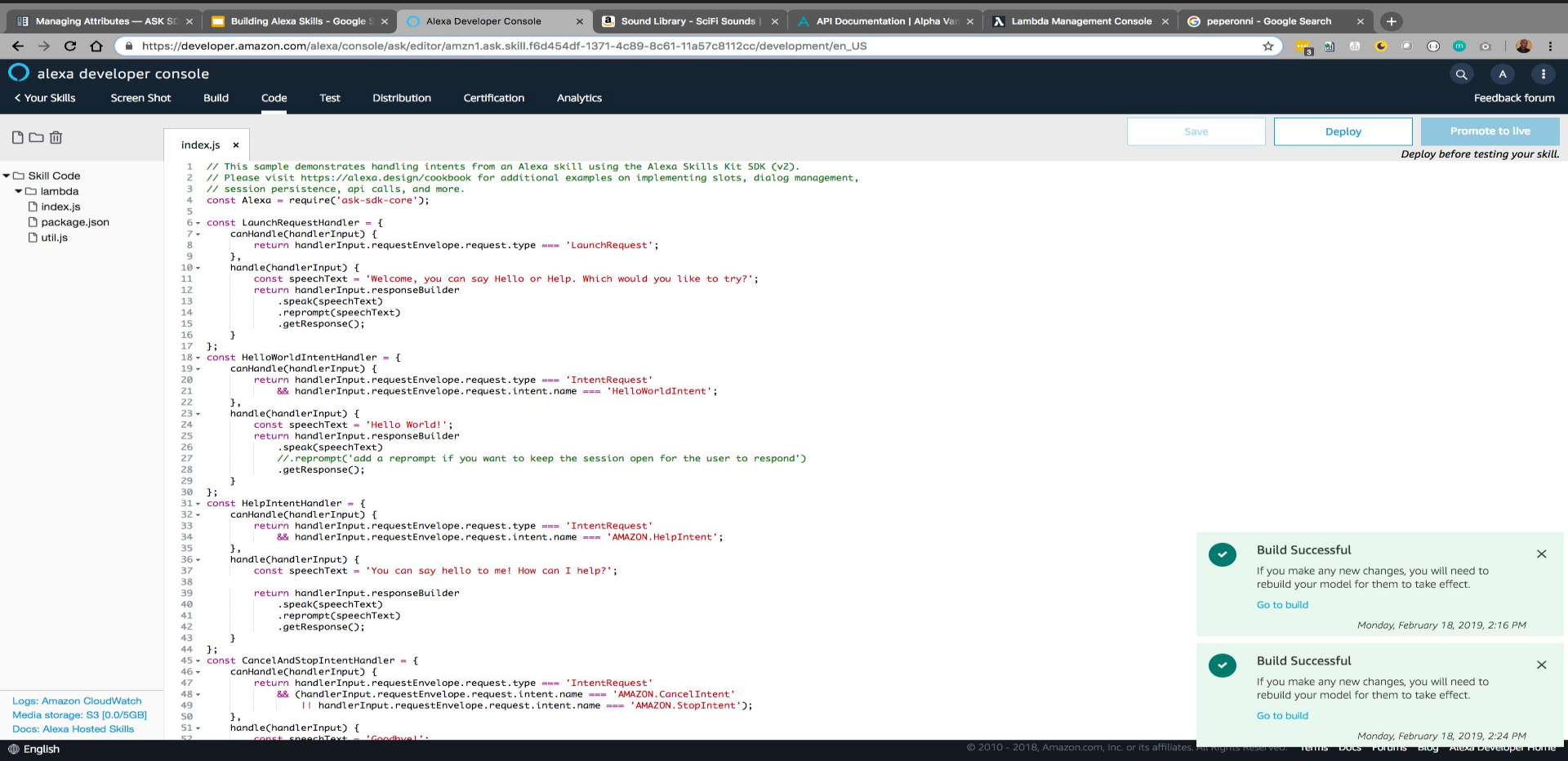
Save and Build the Interaction Model



WE ARE DONE WITH THE FRONTEND!

Next step?
code the back end…..

Get Started with Lambda Function



HANDLERS

```
const LaunchRequestHandler =  {
    canHandle(handlerInput) {
            // if can handle….check if equals to intent name
 },

handle(handlerInput) {
      const speechText = `Welcome to Pizza King You can saysomething like, I
want to order a pizza`;
      return handlerInput.responseBuilder .speak(speechText)
.reprompt(speechText) .getResponse();

    }

};
```

ACCESSING SLOT VALUES

```
const HelloIntentHandler = {

    handle(handlerInput) {
    var name = handlerInput.requestEnvelope.request.intent.slots.name.value;

     const speechOutput = "hello " + name + " Nice to meet ya;
    return handlerInput.responseBuilder .speak(speechOutput) .getResponse();

      },

};
```

RESPONSE BUILDER

We get to respond to the user by leveraging the responseBuilder Object and its methods. Below is an example of a responseBuilder.

```
const HelloIntentHandler = {

    handle(handlerInput) {
  var name = handlerInput.requestEnvelope.request.intent.slots.name.value;

    const speechOutput = "hello " + name + " Nice to meet ya;
  return handlerInput.responseBuilder .speak(speechOutput) .getResponse();

    },

};
```

Speech Synthesis Markup Language

Think of it like HTML but for Voice. We use it to markup and add sounds, effects and more to our Voice Application. Below is an example.

```
const speechText = ` <audio src='soundbank://soundlibrary/transportation/amzn_sfx_car_accelerate_01'/><audio src='soundbank://soundlibrary/transportation/amzn_sfx_car_honk_1x_01'/> `

+  ` Welcome to Car Dealer. You can ask me to suggest a car for you by saying something like, which car should i buy`;
```

Day One

Let’s build a simple greeting app that greets a friend in a special way and Incorporate SSML

<Speech Synthesis Markup Language>

https://github.com/MikailaAkeredolu/alexa-skill-code

Day Two

Let’s build a Pizza Ordering App for a Pizza Shop

https://github.com/MikailaAkeredolu/alexa-skill-code