**Alexa Skills Documentation**

**ZIP Contents:**

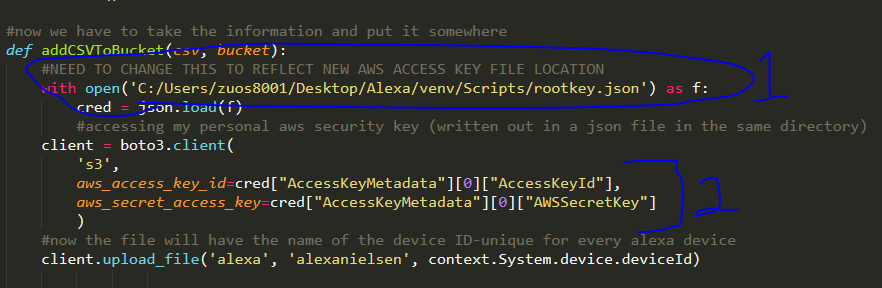
Survey.py (backend python code for skill)

Templates.yaml (templated responses for Alexa to ask questions from)

**Zappa:** <https://github.com/Miserlou/Zappa>

In order to effectively use the skill one needs to make sure zappa is downloaded onto their computer. MAKE SURE PYTHON FILE IS IN THE SAME DIRECTORY AS THE ONE YOU ARE DOWNLOADING ZAPPA TO.

S3:

Currently the skill is tied to my personal Amazon S3 Bucket. In order to be able to upload user responses to S3 a few steps need to be taken. 

1. The current file path needs to be changed to reflect wherever the aws access key/secret access key are on your computer. It should be in JSON format.
2. If you want to keep this code the same, make sure the rootkey.json file is in this format:

{

"AccessKeyMetadata": [

{

"Status": "Active",

"CreateDate": "2018-07-30T20:31:20Z",

"AccessKeyId": "AKIBLAHBLAHBLAHBLAH",

"AWSSecretKey": "kwYmBLAHBLAHBLAH"

},

{

"Status": "Active",

"CreateDate": "2018-07-31T14:11:44Z"

}

]

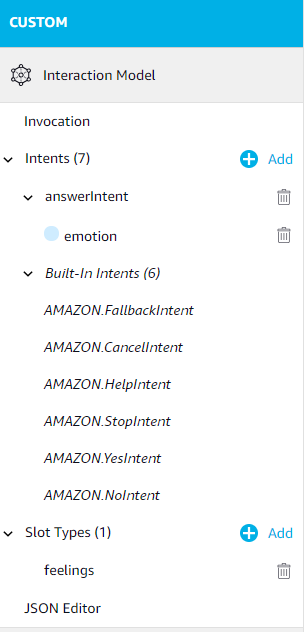
}

This way you can keep the code relatively the same without having to play around with the json pathways.

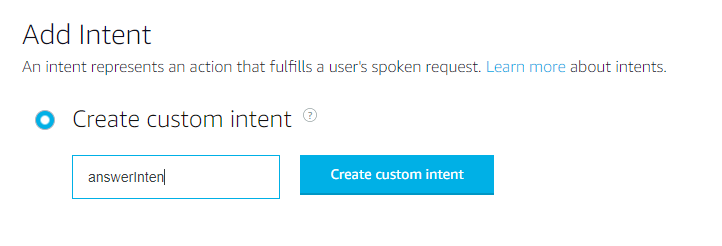
**Alexa Backend Logic:**

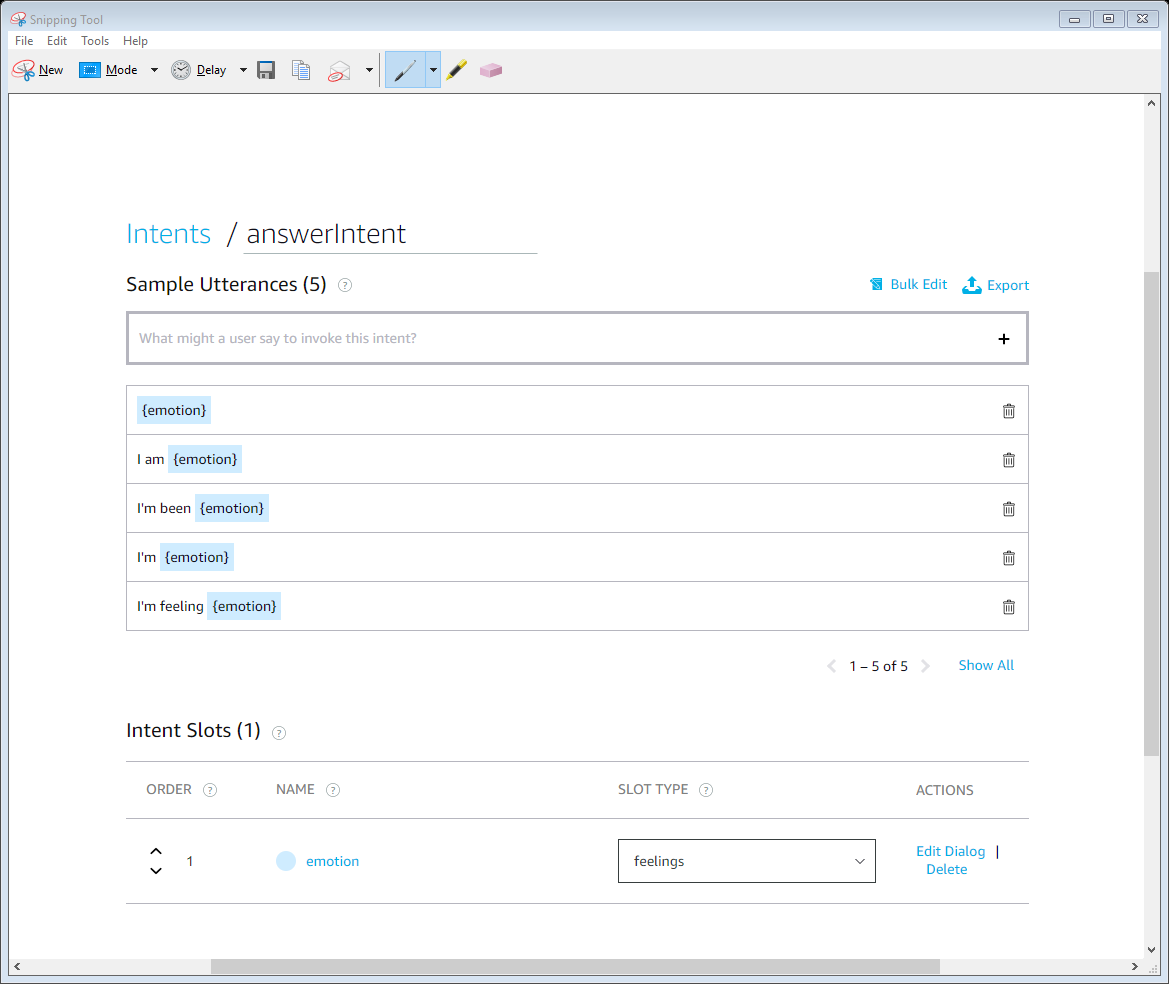
In order for Alexa to know what to say and how to map out certain intents we need to configure the backend logic.

There are default ‘built-in Intents’ but we are going to focus on ‘answerIntent’



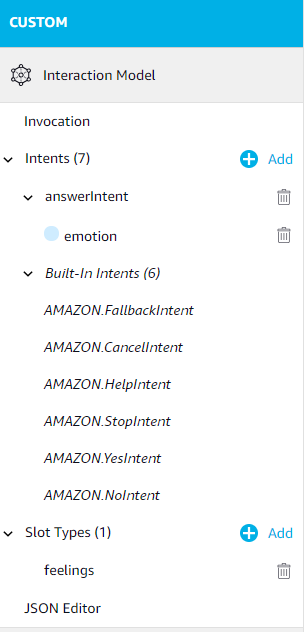
To add a new intent, click ‘add’





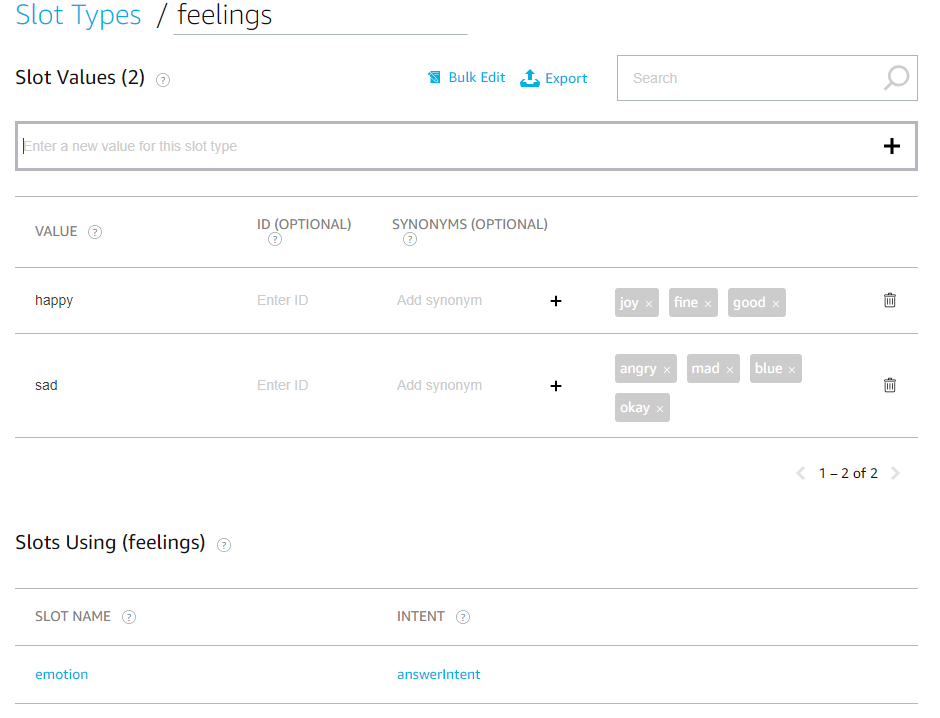
Now we need to add in the potential answers that we can get for out questions.

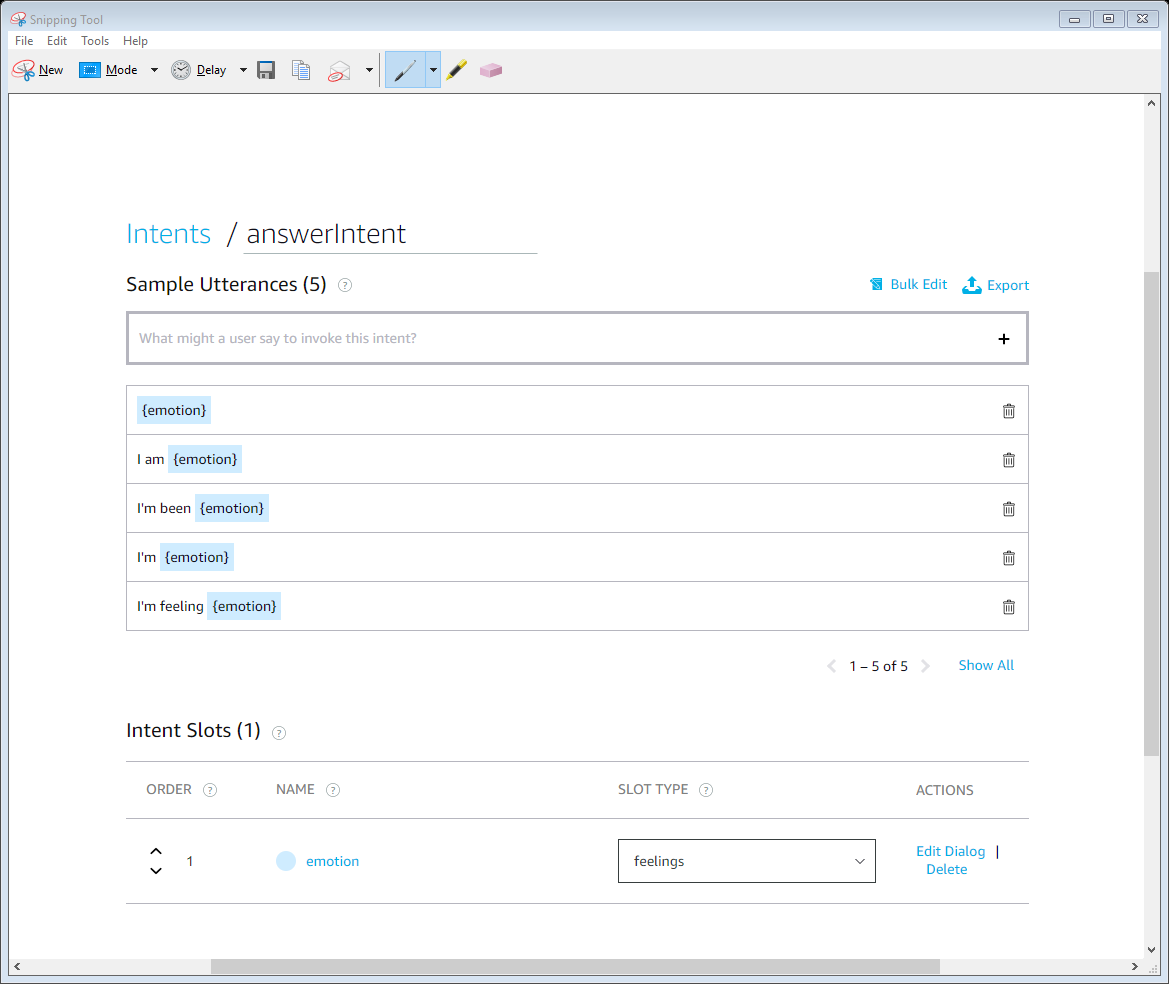
Notice the {emotion} is highlighted in blue, this is because it is corresponding to a specific slot of the type ‘feelings’



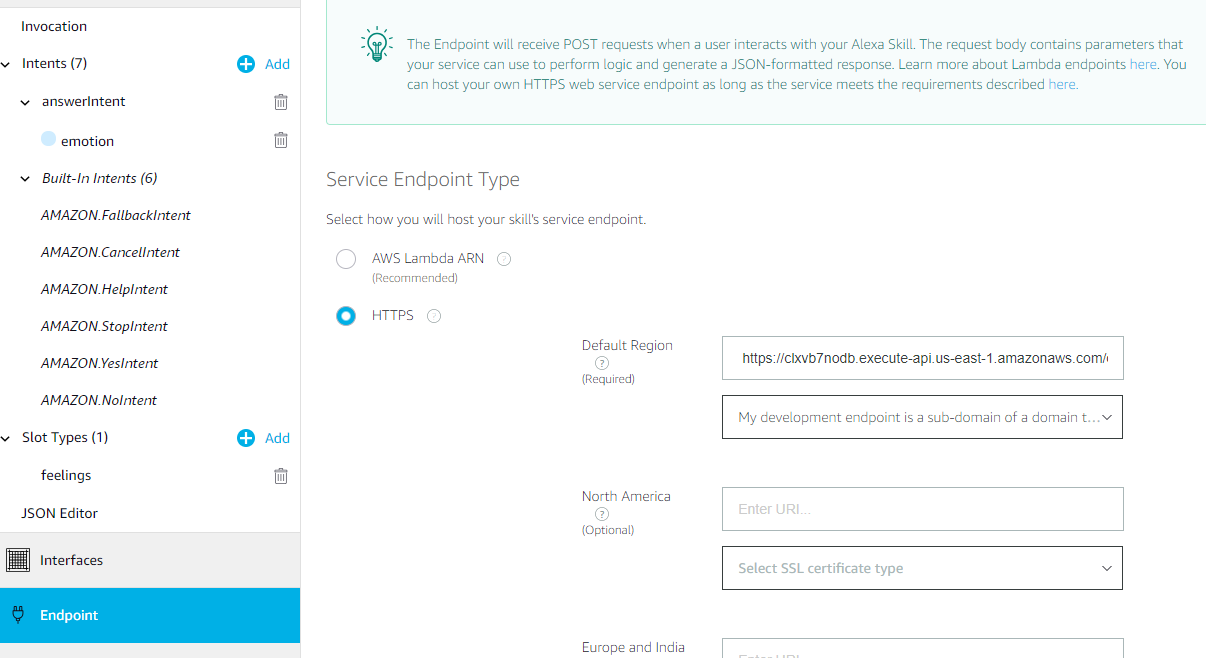
We need to add a slot type ‘feelings’ in order for this to map out to our intent slot.

After creating our custom slot type, we need to populate it with potential fillers for the slot:



Once your slot has been created, we can go back to our intent slots and choose ‘feelings’ as our slot type…

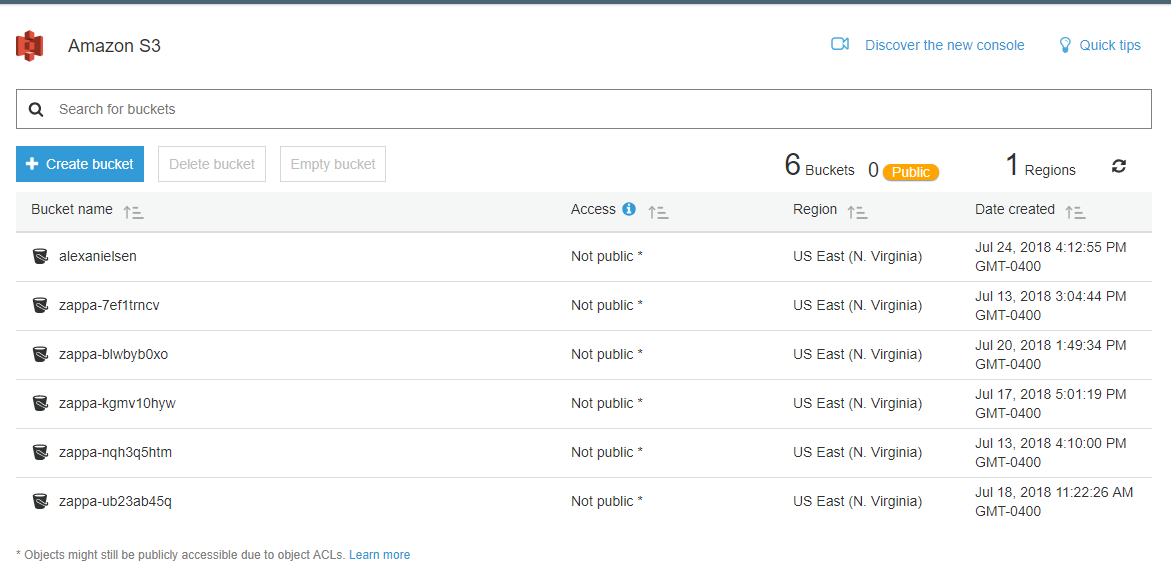
Now that we have our backend set up we need to make sure zappa can connect to our skill.



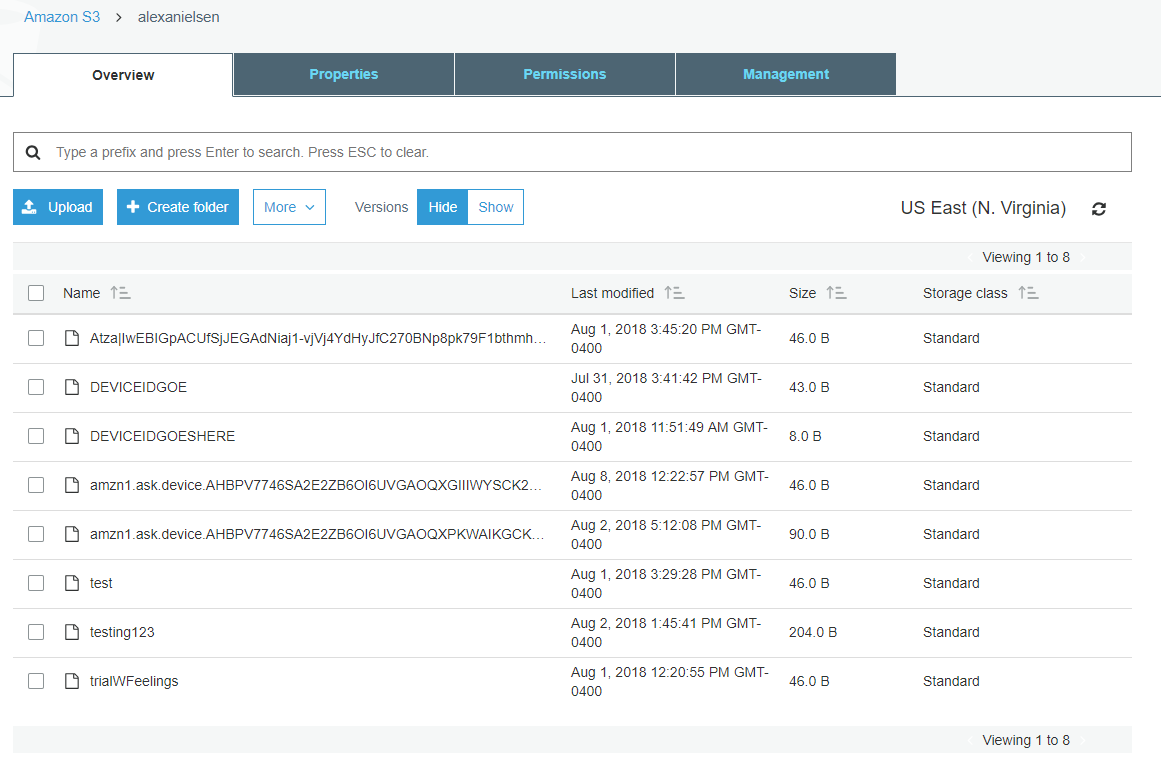
Navigate to the ‘Endpoint’ tab on the left and update your HTTPS endpoint to your zappa link. Make sure that the dropdown under the link is set to: “My development endpoint is a sub-domain of a domain that has a wildcard certificate from a certificate authority.”

After all of this is done you should have our Alexa skill up and running!

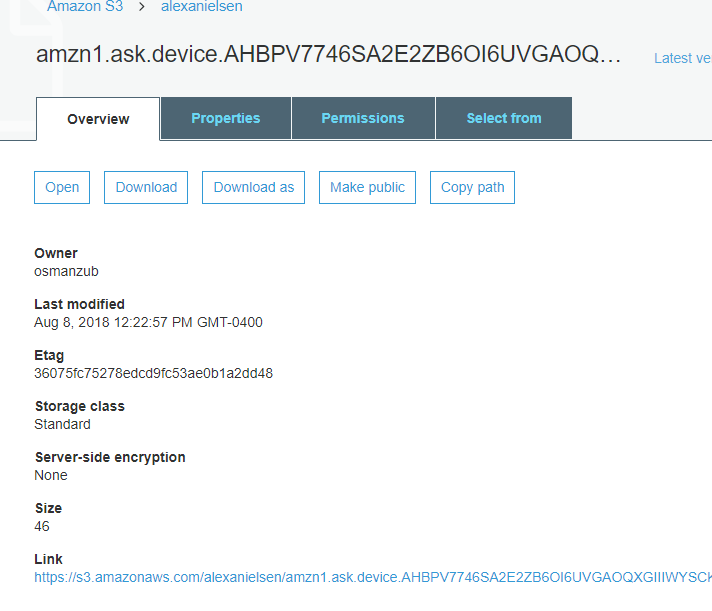
**Retrieval of the responses to the skill:** <https://s3.console.aws.amazon.com/s3/home?region=us-east-1>

In order to read what people say to Alexa while taking our survey we need to create a custom S3 bucket in our Amazon console. 

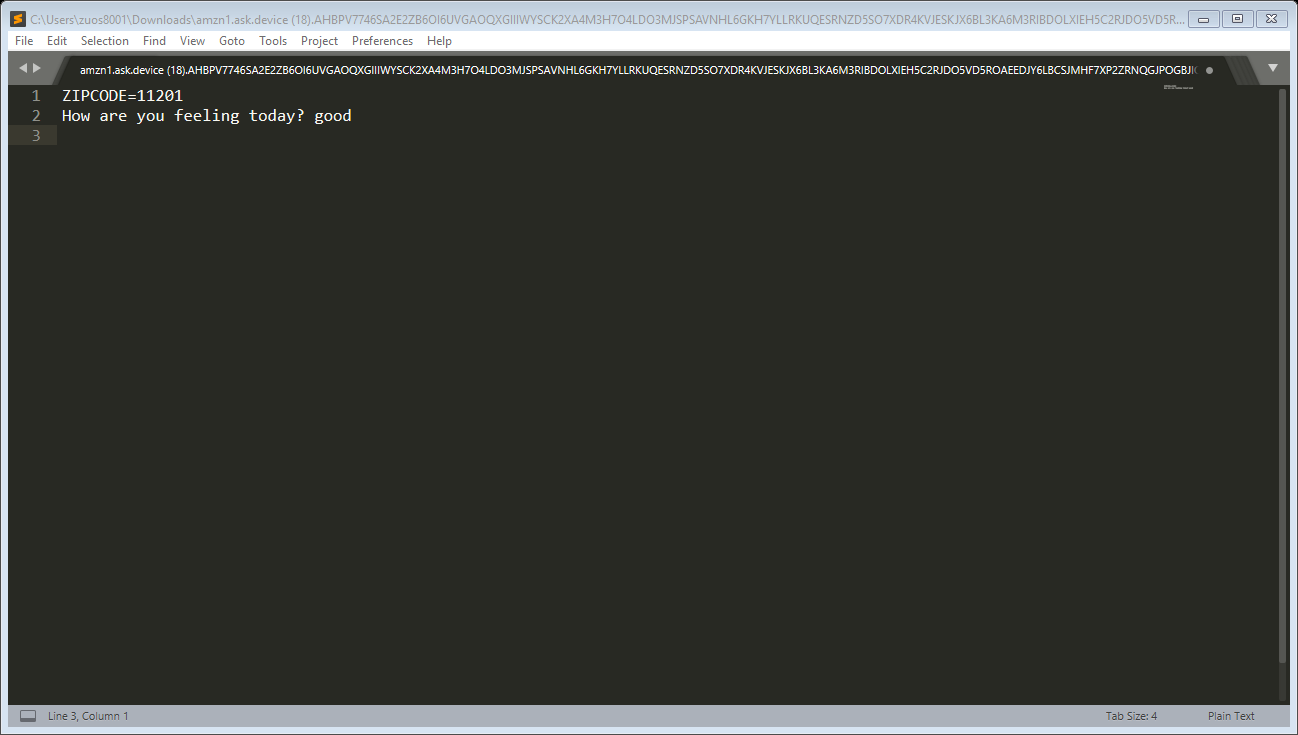
Click on “create bucket” and make a bucket called ‘alexanielsen’ (this needs to be named this way so that our code can know which bucket to pull information from)



After clicking on your new bucket we can see a few things have been uploaded. (A newly created bucket will be empty until the first running of the skill)

The files that will be created once testing has occurred will be named after the individual device ID associated with the Alexa device. Every time you test the skill the file will be overwritten (assuming you use the same device to test the skill). After clicking the file you’ll be able to click open (use any text editor to actually open the file and view it). 

The file should look something like this:



Here we have the device ID’s associated ZIP code as well as their answer to our question “How are you feeling today?”

You should now have everything you need to create questions and access answers with our Alexa Nielsen Survey skill.