INTRODUCTION TO AWS ALEXA SKILL KIT

PRACTICAL EXAMPLE

WHO AM I?

- A developer in Ammeon, www.ammeon.com
- 20 years of experience handling many position as IT Project Manager, System Administrator and Developer
- linkedin.com/in/fcojperez
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AGENDA

- Introduction
- Invocation, utterances, intents, Slots and AWS
- Types of skills
- Custom Skills archetype
  - A example of Skill archetype
- How to debug and testing, echosim.io
- ASK (Alexa Skill Kit)
  - Hands on
  - A example for ML Alexa Skill. ASK decision tree

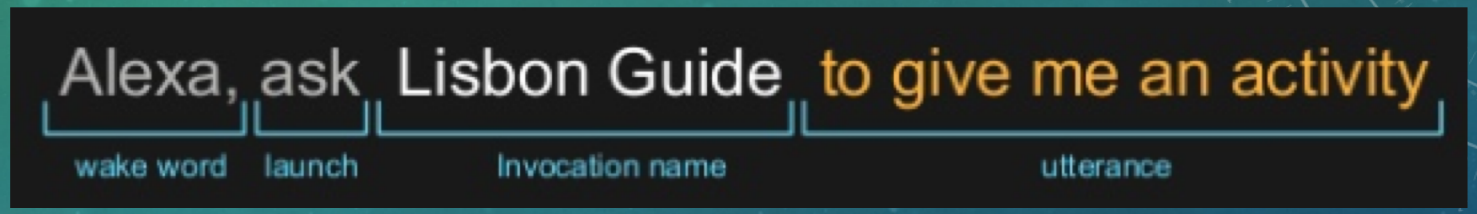
amazon alexa

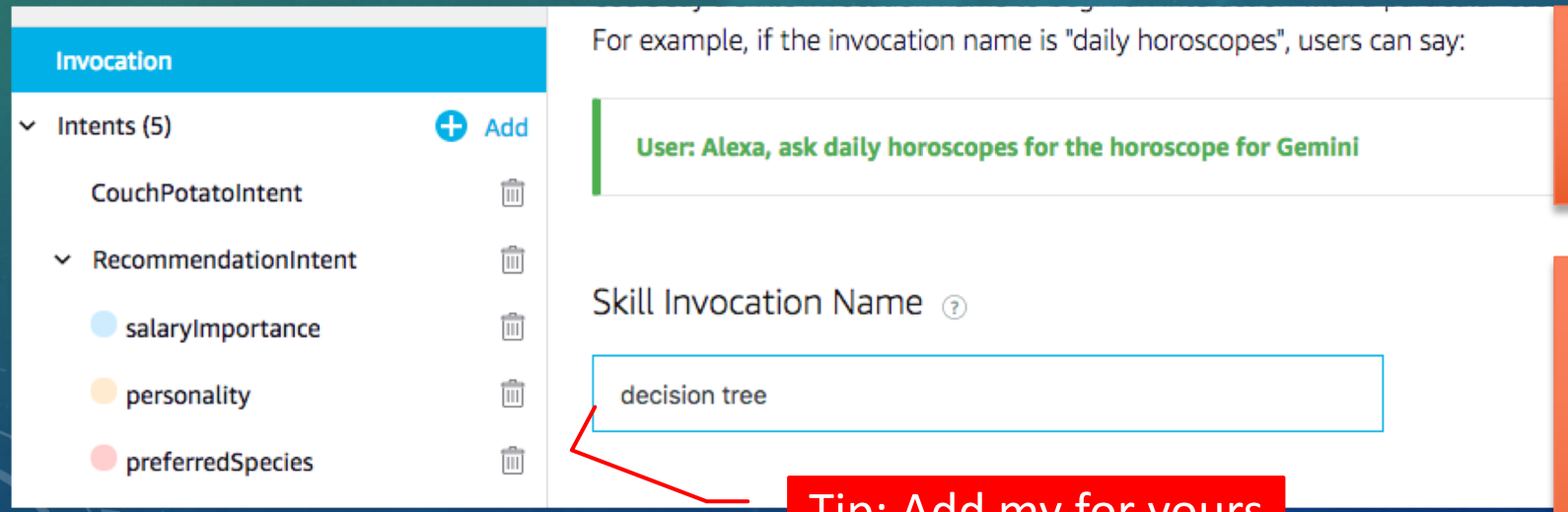
VUI (Voice User Interface)

INVOCATION, INTENTS, UTTERANCES, SLOTS AND ENDPOINT/INTERFACE

INVOCATION AND UTTERANCES

- Invocation
- Utterances





Tip: Add my for yours unpublished skills

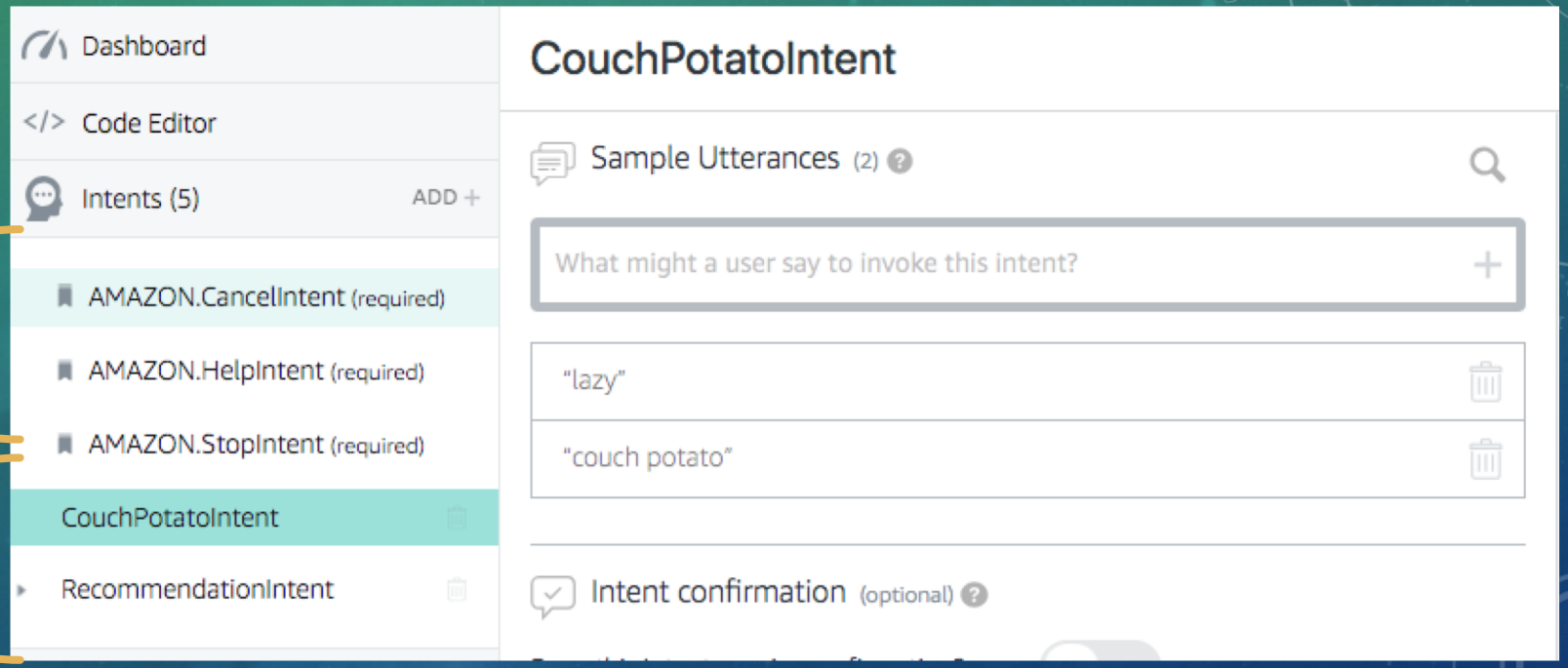
Invocation: A way for identifying skills

Utterance: The expression used for a invocation or intention

INTENTS

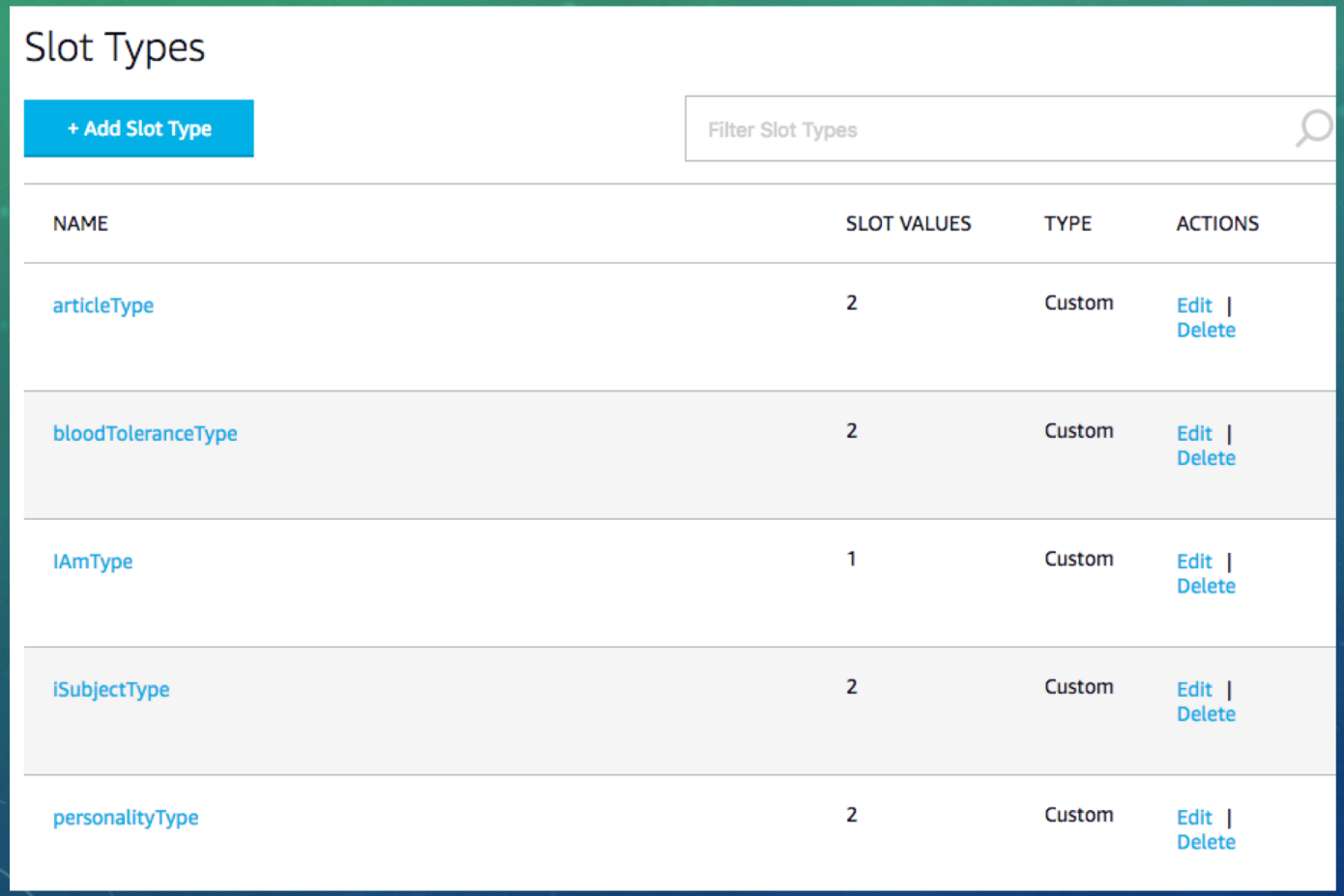
Default Intents

Developed Intents



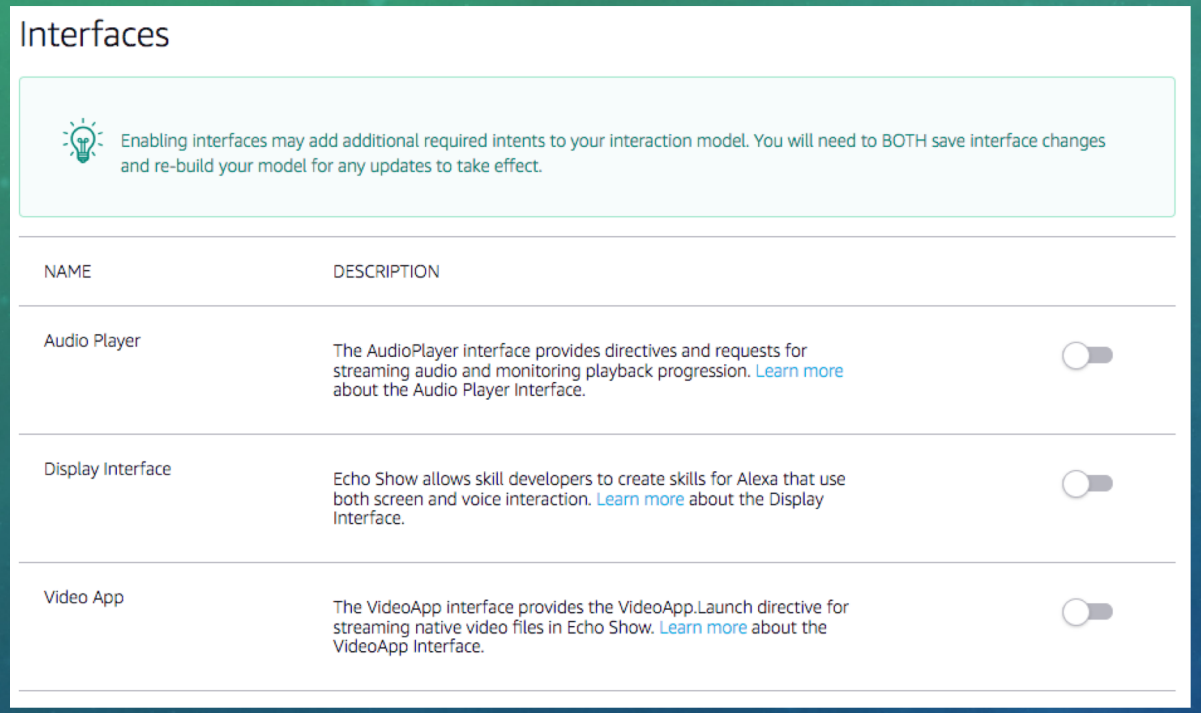
Intent: What the speaker want to ask or do or get

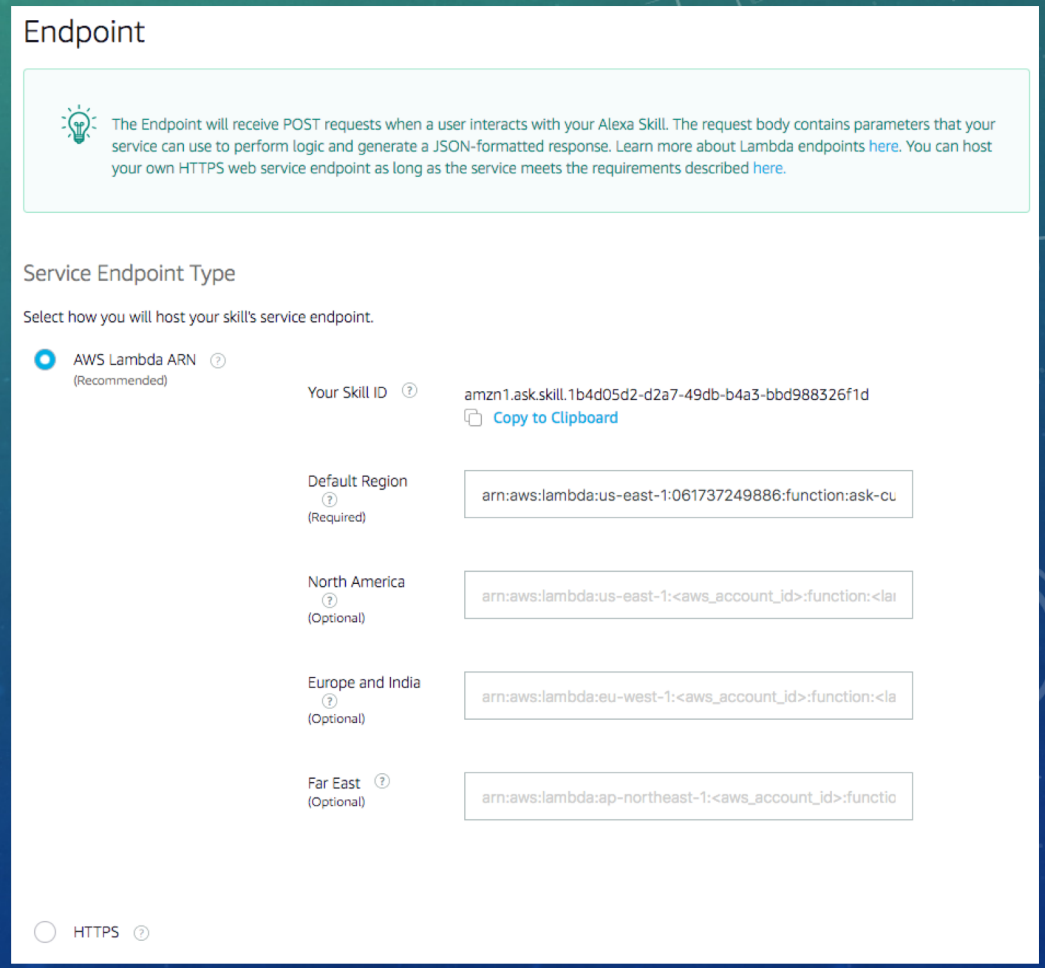
SLOTS



Slots: information passed as parameter by an utterance to an intent

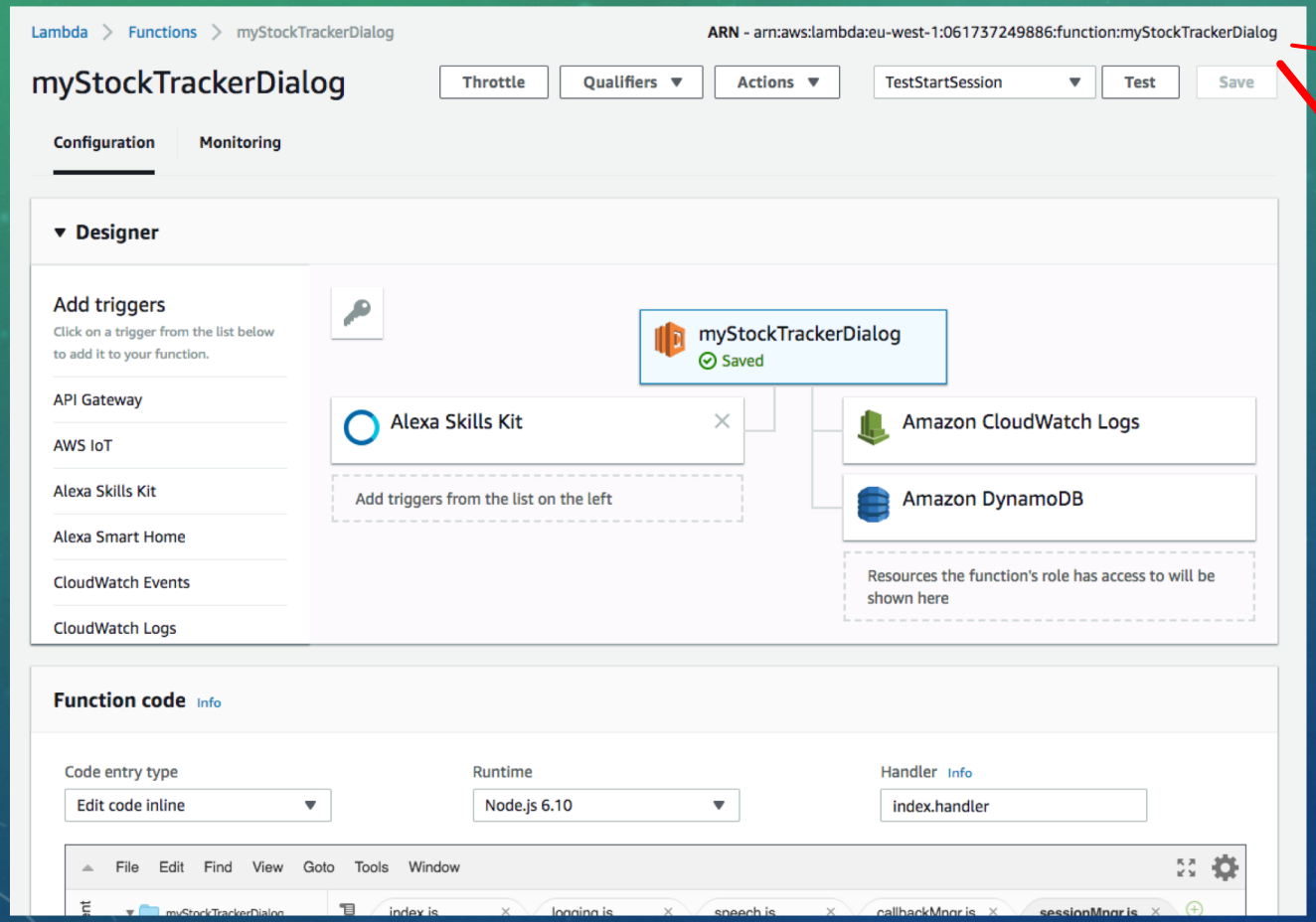
ENDPOINT/INTERFACES



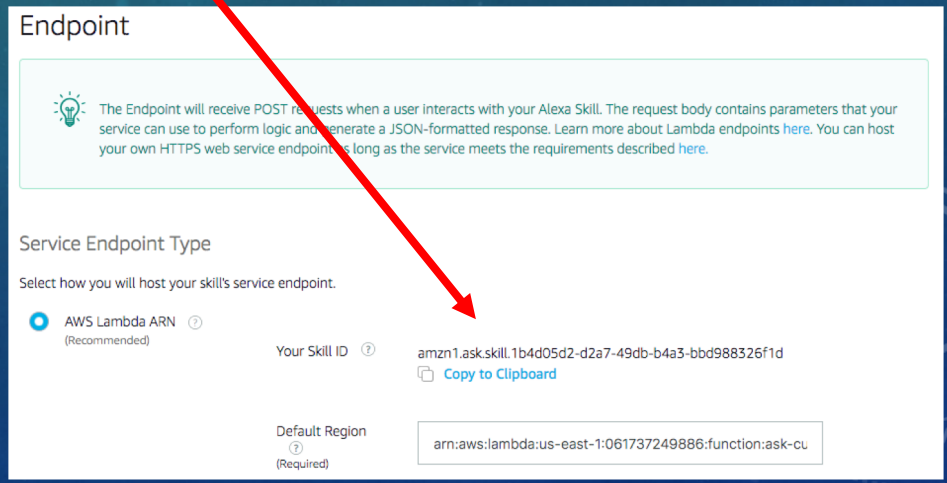


Interface: the content for some skills
Endpoint: the logic for some intents

ENDPOINT, LAMBDA



Lambda ARN



TYPES OF SKILLS

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	Custom	Smart Home	Flash Briefing	Video
Utterance	Developer	Amazon Alexa	Amazon Alexa	Amazon Alexa
Intent	Developer	Developer	Amazon Alexa	Developer
Properties (Slots)	Anything	Appliance Specific	Content Needed	Device/ Service
Uses Case	Anything	Smart Home Devices	Short Content	Video Content

CUSTOM SKILL ARCHETYPE

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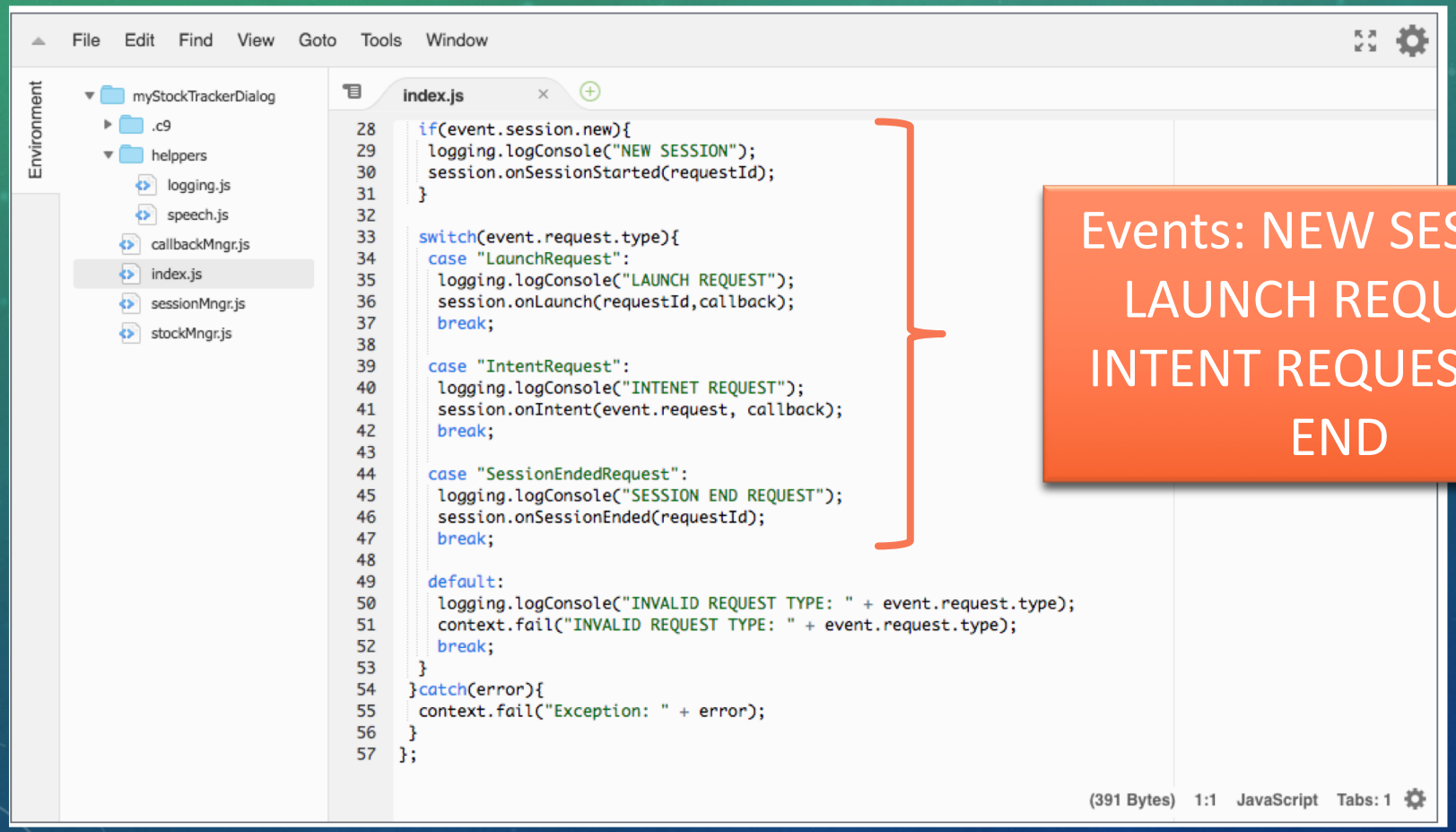


Events: NEW SESSION, LAUNCH REQUEST, INTENT REQUEST and END

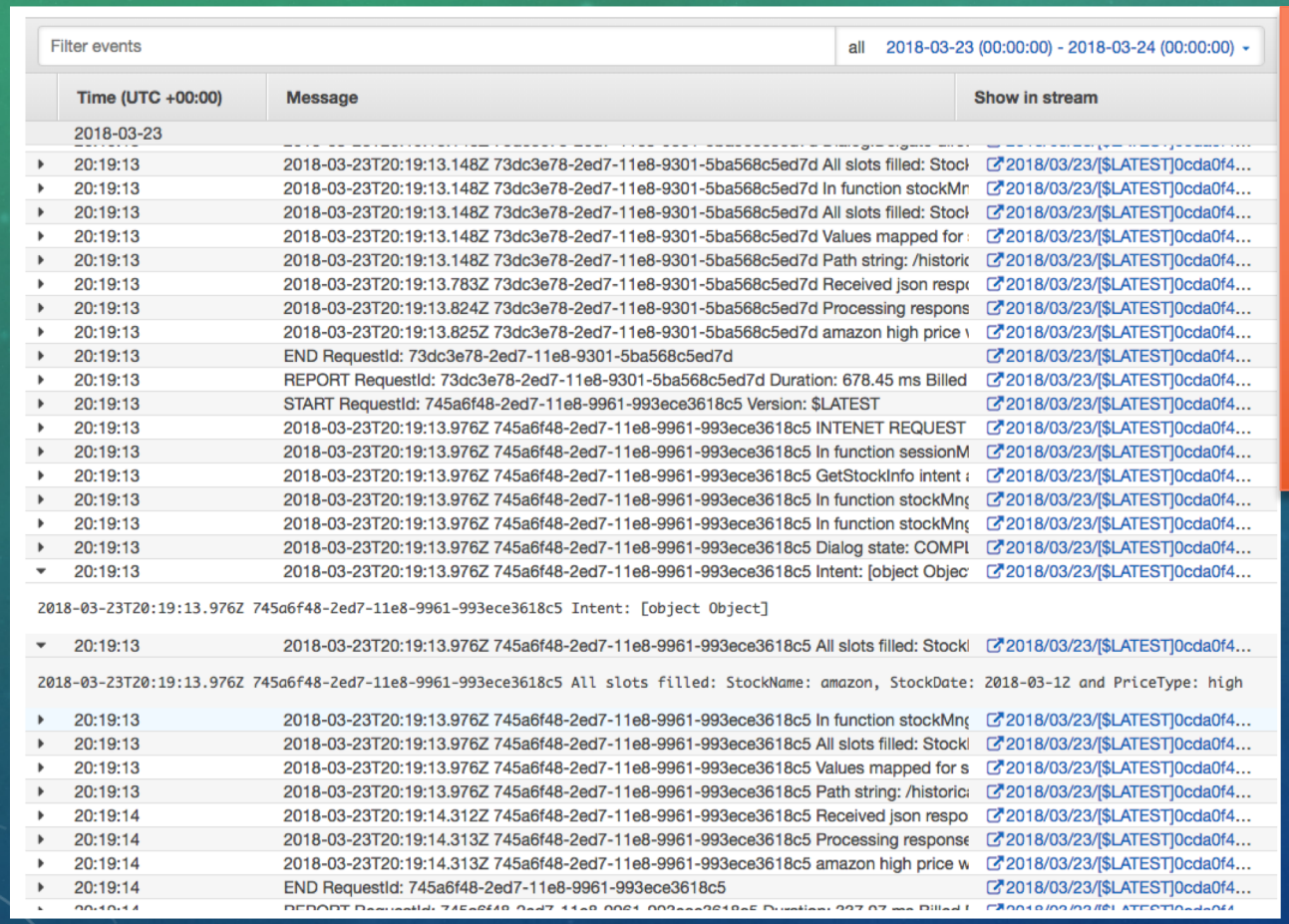
CUSTOM SKILL ARCHETYPE

Module	Function
Helppers/logging.js	Console logging and future logging information
Helppers/speech.js	Manage the speech building process
callbackMngr.js	Manage the Alexa Callback process
Index.js	Depends on the event, context and callback address the modulo and method
sessionMngr.js	Manage the event session
stockMngr.js	Modulo for managing the Web Service request

https://github.com/fcojperez/myStockTrackerDialog

HOW TO DEBUG AND TESTING, ECHOSIM.IO

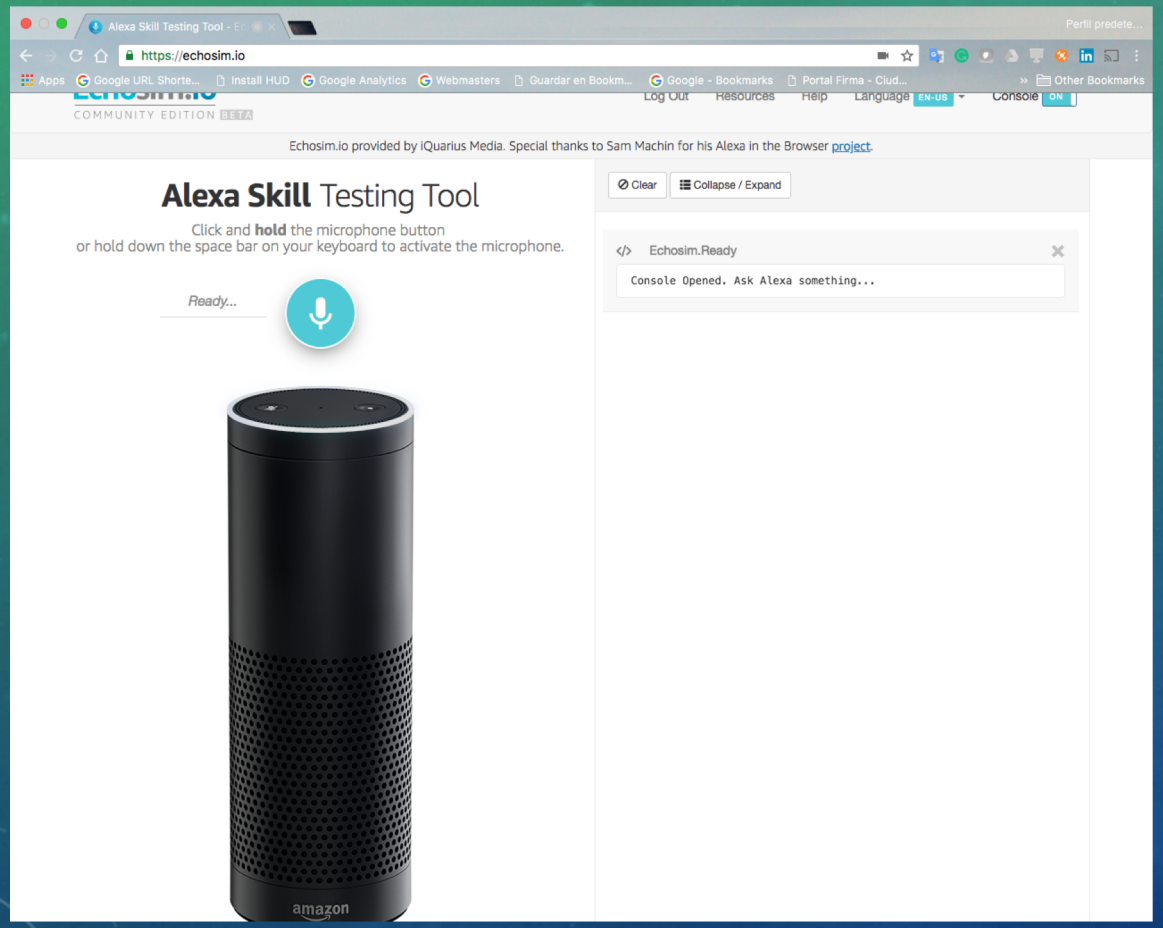
DEBUGGING: AMAZON CLOUDWATCH LOGS



As best practice logging:

- At the begging of each module / function
- Slots Values
- Slots Values processed
- Exceptions

ECHOSIM.IO



As best practice test:

- Invocation name
- Utterance

ASK (ALEXA SKILL KIT)

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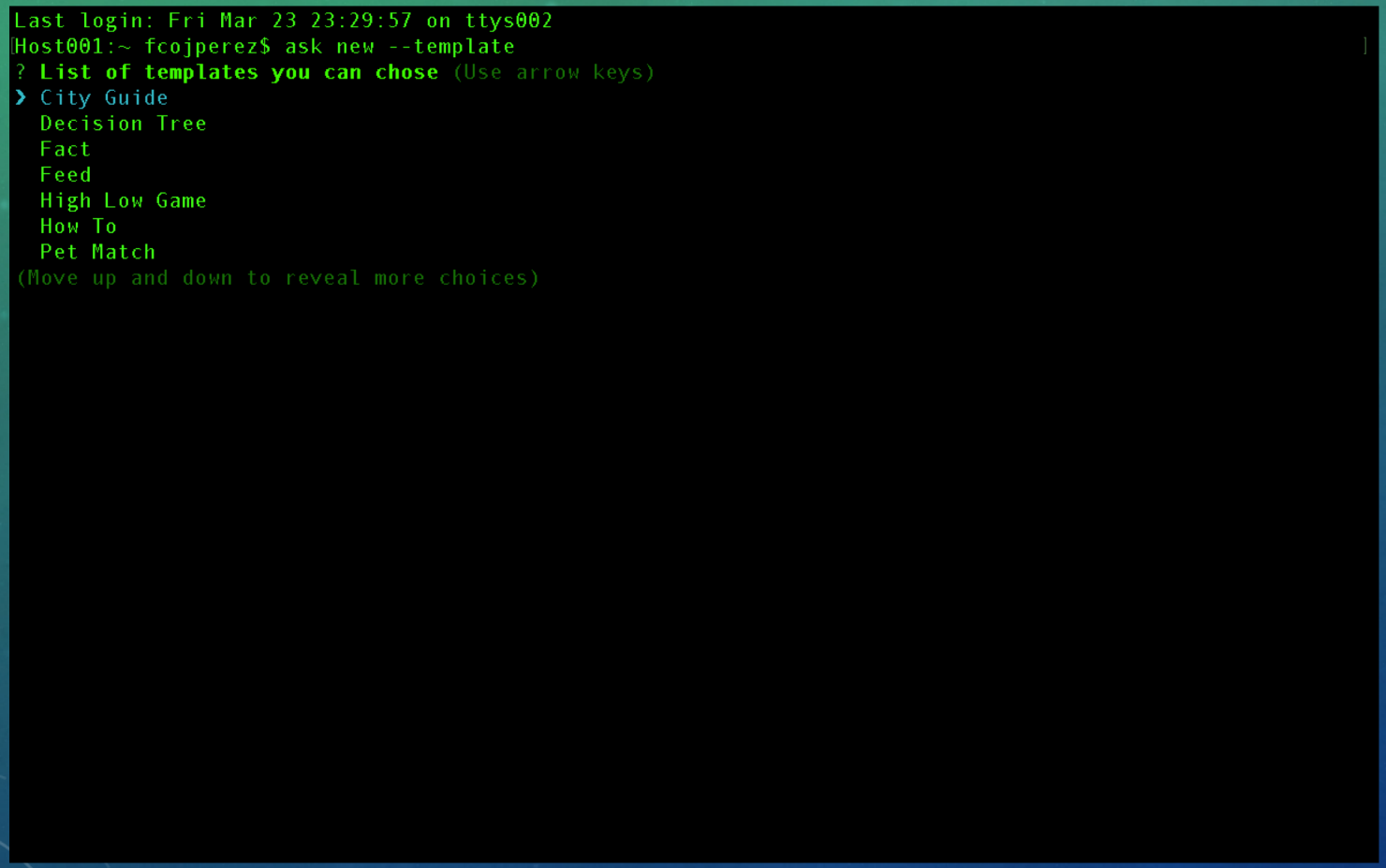

ask new –template

Template List:

- City Guide
- Decision Tree
- Fact
- Feed
- High Low Game
- How to
- Pet Match
- ….

DECISION TREE