BlueStamp Engineering

Build Plan

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Location: San Francisco
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Starter Project: Simon Says
Main Project: #309 - Use Amazon's Alexa for home automation

Major Steps to complete the project:

1. Make sure all materials are correct
2. Create service that will process voice input
3. Create intent schema that defines the actions for voice inputs
4. Create sample utterance file that contains all the possible voice inputs and its corresponding intent
5. AWS Lambda Setup
    a. Create lambda function and name it “particle:
    b. Go to the the src directory, select all files and then create a zip file
    c. Upload the .zip file to the Lambda
    d. Return to the main Lambda page, and click on "Actions" -> "Add Event Source"
    e. Choose Alexa Skills Kit and click submit.
    f. Click on your Lambda function name and copy the ARN to be used later in the Alexa Skill Setup
6. Alexa Skill Setup
    a. Go to Alexa console and click Add New Skill
    b. Set "Particle" as the skill name and "particle" as the invocation name, this is what is used to activate your skill
    c. Select the Lambda ARN for the skill Endpoint and paste the ARN copied
    d. Copy the Intent Schema
    e. Copy the Sample Utterances
7. Test it out

Potential Modifications:

1. Neopixels
    a. Create skill for neopixel
    b. Write skill for the photon to execute when skill is activated
    c. Set up hardware for neopixel so that it works properly
2. Smart door
    a. Create skill for smart door
    b. Setup raspberry pi + camera

c. Find a way to link alexa with raspberry pi