CS4740 Fall 2019 Cloud Computing PA#3
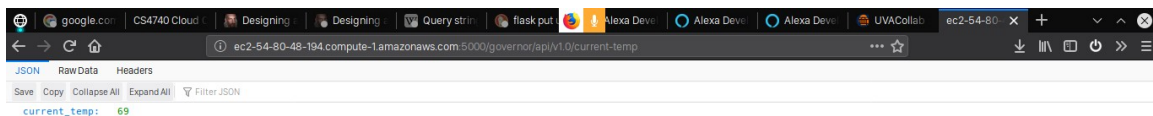
Name: Christopher Truong

UVa User ID: cvt7bm
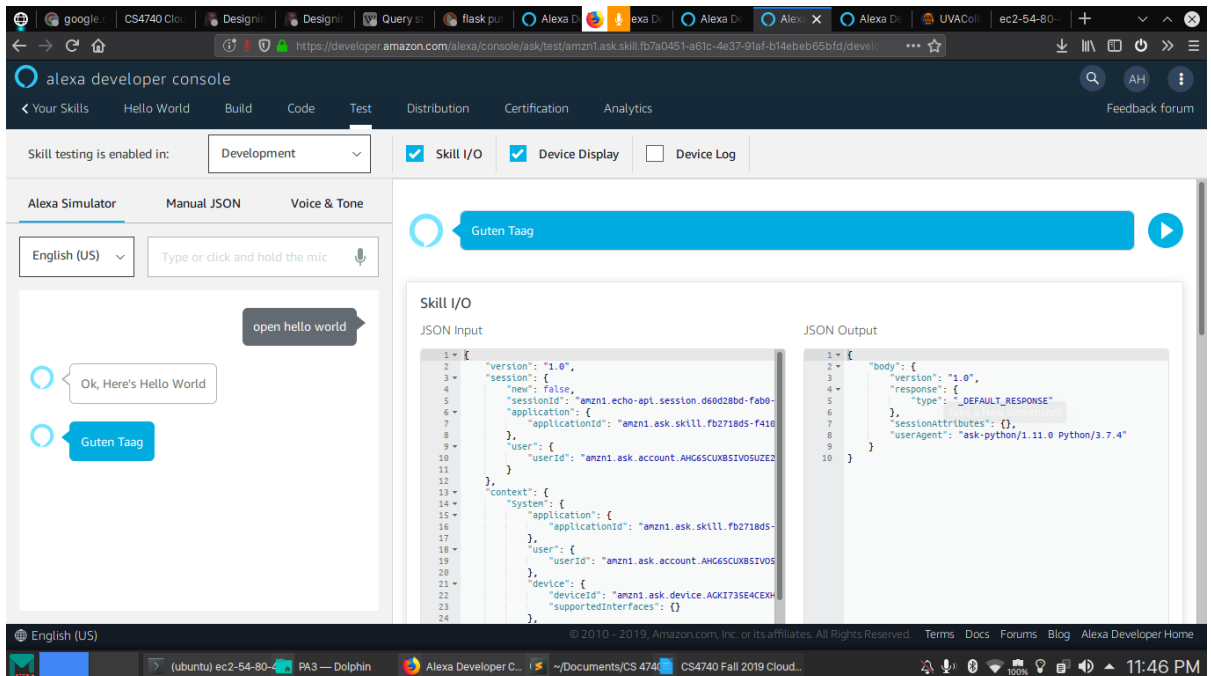
Instructions: Fill in your answers to the 5 questions and SUBMIT A PDF to collab (along with the source code requested in Question 1 and your source code requested in Question 5)
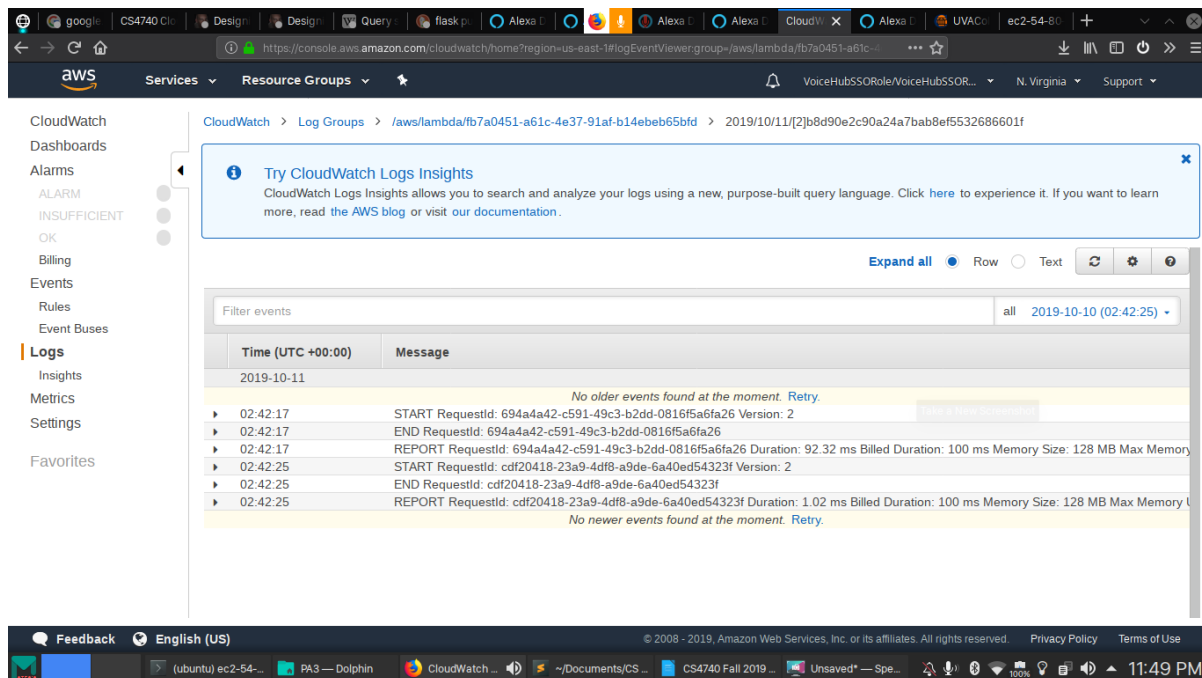
1. After completing Part 1 ("Simulating the thermostat"), cut-and-paste a screenshot of a browser screen (full width of page) to http://[hostname]/governor/api/v1.0/current-temp   To receive full credit, the URL must be legible in the screenshot If you were unable to complete this part, explain how far you were able to get and describe the problem (you were unable to debug).
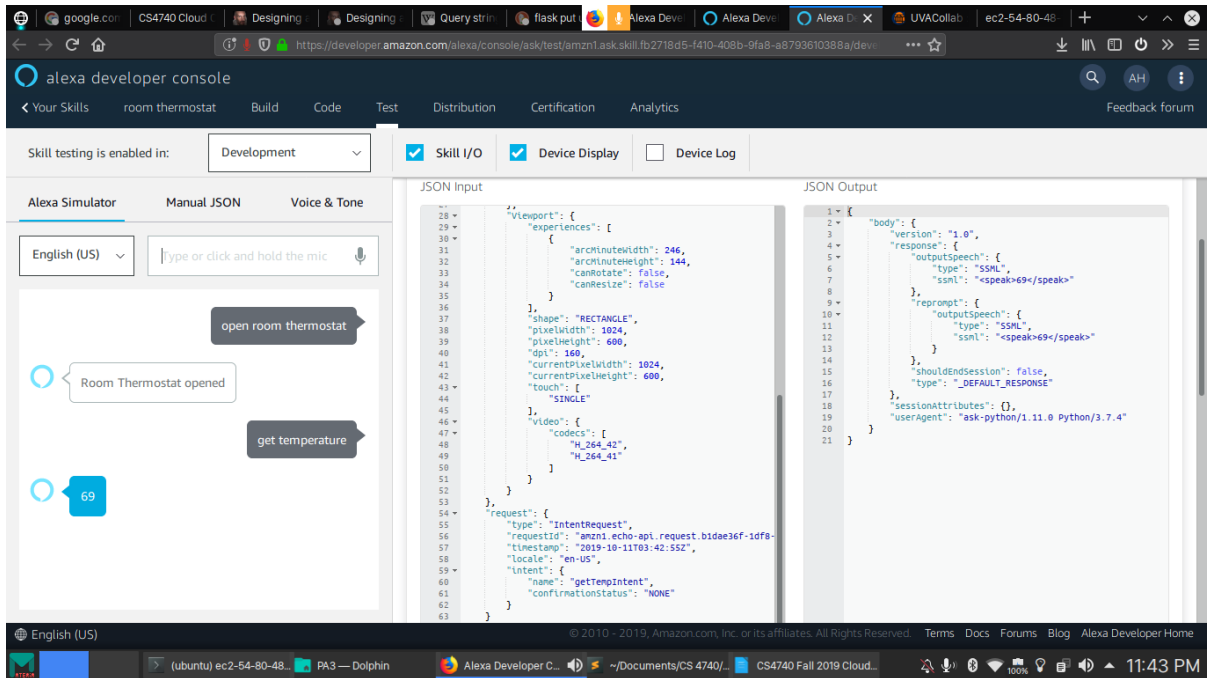

ALSO attach the source code for your thermostat simulator to your collab submission (if multiple files, then ZIP format).

2. After completing Part 2 ("Getting familiar with Alexa"), cut-and-paste two browser screen [1] (full width of page) when you go to the "Test" tab and engage your service (e.g., "open Hello World") To receive full credit, both the "JSON Input" and "JSON Output" must be shown, and your name (initials) must be shown in the upper right of the image (as displayed in the Alexa Developer Console). [2] The CloudWatch logs when you go to the "Code" tab, click on the CloudWatch link (lower left), *and then click on the most recent log* (thereby showing events such as "START", "FINISH", and "REPORT"). If you were unable to complete this part, explain how far you were able to get and describe the problem (you were unable to debug).
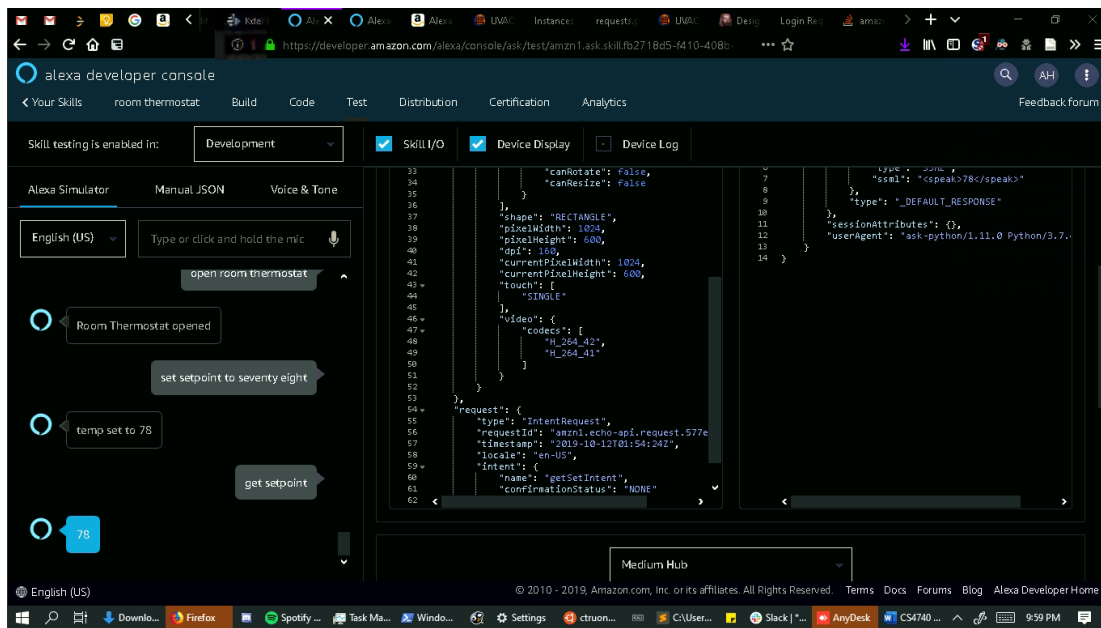
3. After completing Part 3 ("Using voice to control your thermostat") cut-and-paste your alexa developer console browser screen (full width of page) when you go to the "TEST" page and ask for the current room temperature (e.g., "ask governor thermy what is the current temperature"). To get full credit, both the "JSON Input" and "JSON Output" must be shown. If you were unable to complete this part, explain how far you were able to get and describe the problem (you were unable to debug).

4. Repeat Question 3, except ask to set the thermostat to 78 (e.g., "ask governor thermy set the thermostat to 78") and then ask what the current setpoint is (e.g., "ask governor thermy what is the current setpoint"). You MUST have one screenshot that shows both questions (and answers) on the left

5. Cut-and-paste the routine that handles the command to set the thermostat temperature (e.g., SetThermostatTempIntentHandler) . **ALSO attach all source code for your Alexa routine to your collab submission (e.g., lambda_function.py).**

```python
78
79 ▾ class setSetPointIntentHandler(AbstractRequestHandler):
80 ▾     def can_handle(self, handler_input):
81          # type: (HandlerInput) -> bool
82
83          return ask_utils.is_intent_name("setTempIntent")(handler_input)
84 ▾     def handle(self, handler_input):
85          #temp = handler_input.request_envelope.request.intent.slots['temp'].value
86          slots = handler_input.request_envelope.request.intent.slots
87          temp = str(slots['temp'].value)
88          url = 'http://ec2-54-80-48-194.compute-1.amazonaws.com:5000/governor/api/v1.0/current-setpoint'
89          JSON = json.dumps({'setPoint':str(temp)})
90          response = requests.put(url, data=JSON)
91          return (
92              handler_input.response_builder.speak('setpoint set to' + str(temp)).response
93          )
94
95
```