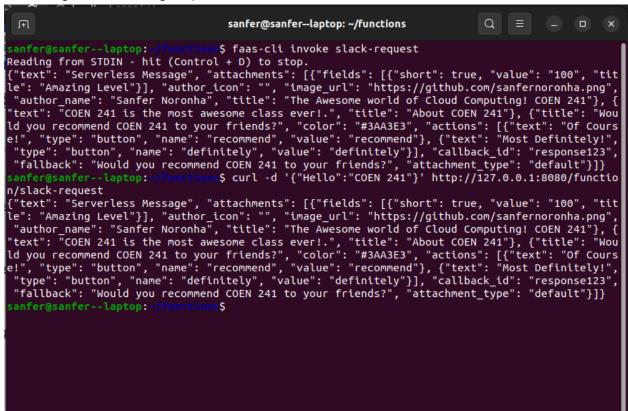
COEN 241 Assignment 2 Answers

- Q1. What is the command to invoke slack-request function?
 - a. Via curl
 - b. Via faas-cli

Ans. Via curl : curl -d '{"Hello": "COEN 241"}' http://127.0.0.1:8080/function/slack-request Via faas-cli faas-cli invoke slack-request

Q2. What is the output you see when you invoke the slack-request function? Ans. We get the following outputs



Q3. What is the command to invoke the slack-interactive function? a.Via curl

b.Via faas-cli

Ans. Via curl: curl -d '{"Hello": "COEN 241"}' http://127.0.0.1:8080/function/slack-interactive Via faas-cli faas-cli invoke slack-interactive

Q4. What is the output seen after invoking the slack-interactive function?

Q5. How would you pass different arguments to the functions?

Ans. Following are some of the ways of passing arguments to functions.

- 1. curl -d '{"Hello": "COEN 241"}' http://127.0.0.1:8080/function/slack-interactive The above command sends the specified data in a POST request to an HTTP server.
- 2. echo "Hello, FaaS World" | faas-cli invoke figlet Here, we invoke the figlet function using faas-cli and the argument given to the function is "Hello, FaaS World".

We can also use the openfaas UI.

Q5. How would you pass different arguments to the functions?

Ans. urllib is used to decode any string into a URL using the default UTF-8 encoding. json.load() method is used to transform a valid JSON string, such as a urlstring, into a Python dictionary. The functions are like API endpoints. We send req to the function which is accessed using the req parameter and decoded with above mentioned libraries. Different requests can be extracted using various api functions of the above libraries. Api testing tools like Postman can be used to send various arguments to the functions for testing. json.dumps is used to return data to the requesting client.

Codes:

slack-interactive/handler.py

```
mport <u>json</u>
import urllib
def handle(req):
  urlstring = urllib.unquote(req).decode('utf8').strip('payload=')
               "replace original": True,
               "ts": 123456789
   return json.dumps(data)
```

slack-interactive.yml

```
provider:
name: openfaas
```

```
gateway: http://127.0.0.1:8080
functions:
    slack-interactive:
        lang: python
        handler: ./slack-interactive
        image: sanfernoronha/slack-interactive
        environment:
        content_type: application/json
```

slack-request/handler.py

```
import <u>json</u>
def handle (req):
                 "short": True
```

```
"name": "recommend",
    "text": "Of Course!",
    "type": "button",
    "value": "recommend"
},
{
    "name": "definitely",
    "text": "Most Definitely!",
    "type": "button",
    "value": "definitely"
}

}

return ison.dumps(data)
```

slack-request.yml

```
provider:
   name: openfaas
   gateway: http://127.0.0.1:8080
functions:
   slack-request:
    lang: python
    handler: ./slack-request
   image: sanfernoronha/slack-request
   environment:
        content_type: application/json
```