

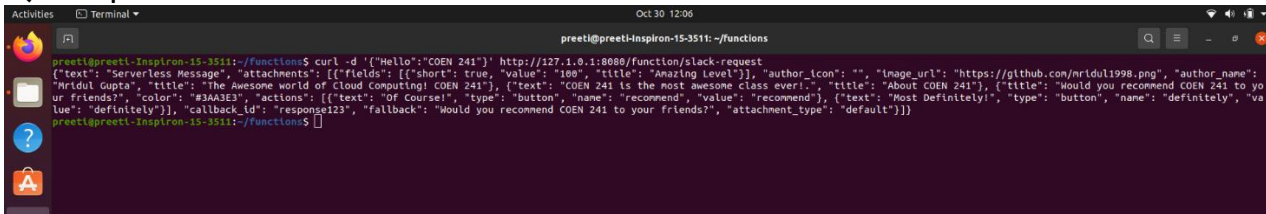
COEN 241: Homework 2 Q And A

Name: Mridul Amitkumar Gupta

SCU ID: 1607438

- 1) Via curl – curl -d '{"Hello": "COEN 241"}' <http://127.1.0.1:8080/function/slack-request>
Via faas-cli – faas-cli invoke slack-request

2) Output of Curl:



```
preeti@preeti-Inspiron-15-3511:~/functions$ curl -d '{"Hello": "COEN 241"}' http://127.1.0.1:8080/function/slack-request
{"text": "Serverless Message", "attachments": [{"fields": [{"short": true, "value": "100", "title": "Amazing Level!"}, {"author_icon": "", "image_url": "https://github.com/mridul1998.png", "author_name": "Mridul Gupta", "title": "The Awesome world of Cloud Computing! COEN 241"}, {"text": "COEN 241 is the most awesome class ever!.", "title": "About COEN 241"}, {"title": "Would you recommend COEN 241 to your friends?", "color": "#3AA3E3", "actions": [{"text": "Of Course!", "type": "button", "name": "recommend", "value": "recommend"}, {"text": "Most Definitely!", "type": "button", "name": "definitely", "value": "definitely"}], "callback_id": "response123", "fallback": "Would you recommend COEN 241 to your friends?", "attachment_type": "default"}]}
```

Output of faas-cli:



```
preeti@preeti-Inspiron-15-3511:~/functions$ faas-cli invoke slack-request
Reading from STDIN - hit (Control + D) to stop.
hello
{"text": "Serverless Message", "attachments": [{"fields": [{"short": true, "value": "100", "title": "Amazing Level!"}, {"author_icon": "", "image_url": "https://github.com/mridul1998.png", "author_name": "Mridul Gupta", "title": "The Awesome world of Cloud Computing! COEN 241"}, {"text": "COEN 241 is the most awesome class ever!.", "title": "About COEN 241"}, {"title": "Would you recommend COEN 241 to your friends?", "color": "#3AA3E3", "actions": [{"text": "Of Course!", "type": "button", "name": "recommend", "value": "recommend"}, {"text": "Most Definitely!", "type": "button", "name": "definitely", "value": "definitely"}], "callback_id": "response123", "fallback": "Would you recommend COEN 241 to your friends?", "attachment_type": "default"}]}
```

- 3) Via curl - curl -d '{"Hello": "COEN 241"}' <http://127.1.0.1:8080/function/slack-interactive>
Via faas-cli - faas-cli invoke slack-interactive

4) Output of curl and faas-cli:



```
preeti@preeti-Inspiron-15-3511:~/functions$ curl -d '{"Hello": "COEN 241"}' http://127.1.0.1:8080/function/slack-interactive
{"attachments": [{"footer": "Slack Apps built on OpenFaas", "author_link": "https://github.com/mridul1998/COEN241_Cloud_Computing", "color": "#36a64f", "text": "Head over to COEN 241", "title": "COEN 241", "ts": 123456789, "author_name": "", "title_link": "https://www.scu.edu/engineering/academic-programs/department-of-computer-engineering/graduate/course-descriptions/", "image_url": "https://www.scu.edu/media/offices/umc/scu-brand-guidelines/visual-identity-amp-photography/visual-id-entity-toolkit/logos-amp-seals/Mission-Dont3.png", "response_type": "ephemeral", "replace_original": true, "footer_icon": "https://a.slack-edge.com/45901/marketing/img/_rebrand/meta/slack_hash_256.png", "pretext": "Ahh yeah! Great choice, COEN 241 is absolutely amazing!", "fallback": "Required plain-text summary of the attachment.", "thumb_url": "https://www.scu.edu/engineering/academic-programs/department-of-computer-engineering/graduate/course-descriptions/", "author_icon": "https://github.com/mridul1998.png"}]}
preeti@preeti-Inspiron-15-3511:~/functions$ faas invoke slack-interactive
Reading from STDIN - hit (Control + D) to stop.
{"attachments": [{"footer": "Slack Apps built on OpenFaas", "author_link": "https://github.com/mridul1998/COEN241_Cloud_Computing", "color": "#36a64f", "text": "Head over to COEN 241", "title": "COEN 241", "ts": 123456789, "author_name": "", "title_link": "https://www.scu.edu/engineering/academic-programs/department-of-computer-engineering/graduate/course-descriptions/", "image_url": "https://www.scu.edu/media/offices/umc/scu-brand-guidelines/visual-identity-amp-photography/visual-id-entity-toolkit/logos-amp-seals/Mission-Dont3.png", "response_type": "ephemeral", "replace_original": true, "footer_icon": "https://a.slack-edge.com/45901/marketing/img/_rebrand/meta/slack_hash_256.png", "pretext": "Ahh yeah! Great choice, COEN 241 is absolutely amazing!", "fallback": "Required plain-text summary of the attachment.", "thumb_url": "https://www.scu.edu/engineering/academic-programs/department-of-computer-engineering/graduate/course-descriptions/", "author_icon": "https://github.com/mridul1998.png"}]}
```

5) There are many ways of passing arguments to functions.

For example, in the slack-interactive curl command below :

```
curl -d '{"Hello": "COEN 241"}' https://127.1.0.1:8080/function/slack-interactive
```

The above command sends the specified data in a POST request to the HTTP server.

Another way is to use echo, whose example is below

```
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 pass arguments via the openfaas UI.

6) urllib is a package in which the unquote function is defined in handler.py (slack-interactive function). It is used to decode any string into a URL. The default encoding is UTF-8. After that, we utilize the json.load() method to transform a valid JSON string, such as urlstring, into a Python dictionary. This information is saved in the response. After storing it in response, we can see that we are not using it anywhere. We may change the slack-interactive function to react to different inputs using the answer in our application. Because response is also a Python dictionary; it can be used within the data. As a result, when we use json.dumps(data), the function will start responding to various inputs.