COEN 241 Homework 2 Q&A

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Q1. What is the command to invoke the slack-request function?

a. Via curl

b. Via faas-cli

Ans. Via curl – curl -d '{"Hello":" COEN 241"}'

http://127.1.0.1:8080/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. Following is the output after invoking the slack-request function via both curl and slack.

```
preeti@preeti-Inspiron-15-3511:~/functions$ faas-cli invoke slack-request
Reading from STDIN - hit (Control + D) to stop.
{"text": "Serverless Message", "attachments": [{"fields": [{"short": true, "value": "100", "ti
tle": "Amazing Level"}], "author_icon": "", "image_url": "https://github.com/PreetiKakuru.png"
, "author_name": "Preeti Kakuru", "title": "The Awesome world of Cloud Computing! COEN 241"},
{"text": "COEN 241 is the most awesome class ever!.", "title": "About COEN 241"}, {"title": "W
ould you recommend COEN 241 to your friends?", "color": "#3AA3E3", "actions": [{"text": "Of Co
urse!", "type": "button", "name": "recommend", "value": "recommend"}, {"text": "Most Definitel
y!", "type": "button", "name": "definitely", "value": "definitely"}], "callback_id": "response
123", "fallback": "Would you recommend COEN 241 to your friends?", "attachment_type": "default
"}]}
preeti@preeti-Inspiron-15-3511:~/functions$ curl -d '{"Hello":"COEN 241"}' http://127.1.0.1:80
80/function/slack-request
{"text": "Serverless Message", "attachments": [{"fields": [{"short": true, "value": "100", "ti
tle": "Amazing Level"}], "author_icon": "", "image_url": "https://github.com/PreetiKakuru.png"
, "author_name": "Preeti Kakuru", "title": "The Awesome world of Cloud Computing! COEN 241"},
{"text": "COEN 241 is the most awesome class ever!.", "title": "About COEN 241"}, {"title": "W
ould you recommend COEN 241 to your friends?", "color": "#3AA3E3", "actions": [{"text": "Of Co
urse!", "type": "button", "name": "recommend", "value": "recommend"}, {"text": "Most Definitel
y!", "type": "button", "name": "definitely", "value": "definitely"}], "callback_id": "response
123", "fallback": "Would you recommend COEN 241 to your friends?", "attachment_type": "default
"}]}
preeti@preeti-Inspiron-15-3511:~/functions$
```

Q3. What is the command to invoke slack-interactive function via curl and faas-cli?

Ans. curl - curl -d '{"Hello": "COEN 241"}'

http://127.1.0.1:8080/function/slack-interactive faas-cli – faas-cli invoke slack-interactive

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

Ans. Following is the output after invoking the slack-request function via both curl and slack.

```
preeti@preeti-Inspiron-15-3511:~/functions$ faas-cli invoke slack-interactive
Reading from STDIN - hit (Control + D) to stop.
{"attachments": [{"footer": "Slack Apps built on OpenFaas", "author_link": "https://github.com
/PreetiKakuru/COEN-241", "color": "#36a64f", "text": "Head over to COEN 241", "title": "COEN 2
41", "ts": 123456789, "author_name": "", "title_link": "https://www.scu.edu/engineering/academ
ic-programs/department-of-computer-engineering/graduate/course-descriptions/", "image_url": "h
ttps://www.scu.edu/media/offices/umc/scu-brand-guidelines/visual-identity-amp-photography/visu
al-identity-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/s
lack_hash_256.png", "pretext": "Ahh yeah! Great choice, COEN 241 is absolutely amazing!", "fal
lback": "Required plain-text summary of the attachment.", "thumb_url": "https://www.scu.edu/en
gineering/academic-programs/department-of-computer-engineering/graduate/course-descriptions/",
 "author_icon": "https://github.com/PreetiKakuru.png"}]}
preeti@preeti-Inspiron-15-3511:~/functions$ curl -d '{"Hello":"COEN 241"}' http://127.1.0.1:80
80/function/slack-interactive
{"attachments": [{"footer": "Slack Apps built on OpenFaas", "author_link": "https://github.com
/PreetiKakuru/COEN-241", "color": "#36a64f", "text": "Head over to COEN 241", "title": "COEN 2
41", "ts": 123456789, "author_name": "", "title_link": "https://www.scu.edu/engineering/academ
ic-programs/department-of-computer-engineering/graduate/course-descriptions/", "image_url": "h
ttps://www.scu.edu/media/offices/umc/scu-brand-guidelines/visual-identity-amp-photography/visu
al-identity-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/s
lack_hash_256.png", "pretext": "Ahh yeah! Great choice, COEN 241 is absolutely amazing!", "fal
lback": "Required plain-text summary of the attachment.", "thumb_url": "https://www.scu.edu/en
gineering/academic-programs/department-of-computer-engineering/graduate/course-descriptions/",
 "author_icon": "https://github.com/PreetiKakuru.png"}]}
preeti@preeti-Inspiron-15-3511:~/functions$
```

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

Ans. 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.

Q6. How would you change the slack interactive function to read to different inputs?

Ans. 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 aren't 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.