Tasks

Here is the list of tasks to do. All of the code and images must be updated via github.

Provide a screenshot of invoking the figlet function (10 pts)



Complete slack-request/handler.py (20 pt) slack-request/handler.py is in the same directory of this file.

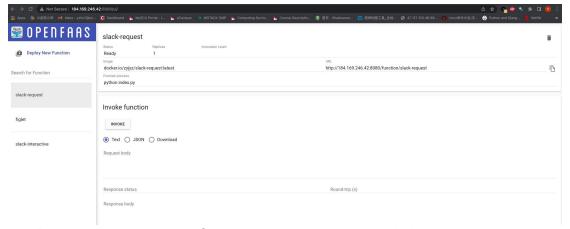
Complete slack-interactive/handler.py (20 pt) slack-interactive/handler.py is in the same directory of this file.

Provide a screenshot of running the following command (10 pts)

sudo journalctl -u faasd --lines 40

```
05:56:14 lp-172-31-13-50 faasd[118710]: 2022/05/11 05:56:14 Resolver: "queue-worker"="10.62.0.6"
05:56:14 lp-172-31-13-50 faasd[118710]: 2022/05/11 05:56:14 Looking up IP for: "prometheus"
05:56:14 lp-172-31-13-50 faasd[118710]: 2022/05/11 05:56:14 Proxy from: 127.0.01:9000, to: prometheus:9000 (10.62.0.4)
05:56:14 lp-172-31-13-50 faasd[118710]: 2022/05/11 05:56:14 Proxy from: 07.001:0000, to: gateway:8080 (10.62.0.5)
05:56:14 lp-172-31-13-50 faasd[118710]: 2022/05/11 05:56:14 Proxy from: 0.0.0.08080, to: gateway:8080 (10.62.0.5)
05:56:14 lp-172-31-13-50 faasd[118710]: 2022/05/11 05:56:14 Proxy from: 0.0.0.08080, to: gateway:8080 (10.62.0.5)
```

Provide a screenshot of your OpenFaaS gateway AFTER deploying figlet, slack-handlerand slack-interactive functions (10 pts)



Provide a screenshot of invoking slack-request and slack-interactive functions (10 pts)

```
Duntudip-172-31-13-50:-$ echo "test" | faas-cli invoke slack-request

'text": "Serverless Message", "attachments": [{"fields": [{"short": true, "value": "100", "title": "Ama
Level"}], "author_icon": "", "image_url": "https://avatars.githubusercontent.com/u/77255276", "author_
: "Yujie Zhu", "title": "The Awesome world of Cloud Computing! COEN 241"}, {"text": "COEN 241 is the m
awesome class ever!.", "title": "About COEN 241"}, {"title": "Would you recommend COEN 241 to your frie
recommend"), {"text": "Most Definitely!", "type": "button", "name": "definitely", "value": "definitely", "value":
"": "default"}]}
whitefault"}];
"": "default"}];
"": "default"}];
"": "default"}];
"": "Association over the color of the strong of the strong
                                         rgrams/uepartment-of-computer-engineering/graduate/course-descriptions/",
ithubusercontent.com/u/77255276"}]}
```

Questions

- What is the command to invoke the slack-request function (4 pts)?

 - a) Via Curl b) Via faas-cli
- What is the output you see when you invoke the slack-request function?

```
{"text": "Serverless Message", "attachments": [{"fields": [{"short": true, "value":
"100", "title": "Amazing Level"}], "author_icon": "", "image_url":
"https://avatars.githubusercontent.com/u/77255276", "author_name": "Yujie
Zhu", "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"}]}
```

- What is the command to invoke the slack-interactive function? (4 pts)
 - a) Via curl
 - b Via faas-cli
- What is the output you see when you invoke the slack-interactive function? (2 pts)

{"attachments": [{"footer": "Slack Apps built on OpenFaas", "author_link": "https://github.com/ugzhu/COEN241", "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-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/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://avatars.githubusercontent.com/u/77255276"}]}

- How would you pass different arguments to the functions? (4 pts)
 - 1. After calling "faas-cli invoke slack-interactive" or "faas-cli invoke slack-request", type argument in command line to STDIN and stop with control+D.
 - 2. Using echo and pipe: "echo "test" | faas-cli invoke slack-interactive" or "echo "test" | faas-cli invoke slack-request"
- How would you change the slack-interactive function to react to different inputs? (4 pts)
 - Using string: Comment out first two lines:
 # urlstring = urllib.unquote(req).decode('utf8').strip('payload=')
 # response = json.loads(urlstring)
 If need to add input to data, just use req to represent the input string.
 - 2. Using JSON: Uncomment first two lines: urlstring = urllib.unquote(req).decode('utf8').strip('payload=') response = json.loads(urlstring)
 There two line will parse input JSON object and response is a python dictonary with parsed JSON input data in it. This response can be added into data dictionary.
 - 3. Using other data type: Comment out first two lines: # urlstring = urllib.unquote(req).decode('utf8').strip('payload=') # response = json.loads(urlstring)
 Then add own code to parse input and use it in data dictionary.

Extra Credit

Link to app:

http://184.169.246.42:8080/function/slack-request http://184.169.246.42:8080/function/slack-interactive

Screenshot of running app in slack:



Interactivity



Any interactions with shortcuts, modals, or interactive components (such as buttons, select menus, and datepickers) will be sent to a URL you specify. Learn more.

Request URL

http://184.169.246.42:8080/function/slack-interactive

Slack will send an HTTP POST request with information to this URL when users interact with a shortcut or interactive component.

Edit Command

Command	/yujie-request (1
Request URL	http://184.169.246.42:8080/functi (1
Short Description	coen241 hw2	
Usage Hint	[which rocket to launch]	
	Optionally list any parameters that can be passed.	
Escape channels, user Unescaped: @user #genera	s, and links sent to your app	
Preview of Autocomp	lete Entry	
Commands match	ing " yujie-request "	
COEN241-HW2		
/yujie-request	coen241 hw2	j)