

COEN 241 Homework 2

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1. Invoking the figlet function:

```
stutijani@stutijani-GP63-Leopard-8RF:~/faasd$ faas-cli store inspect figlet
Info for: Figlet

Name      figlet
Description Generate ASCII logos with the figlet CLI
Image     ghcr.io/openfaas/figlet:latest
Process   figlet
Repo URL  https://github.com/openfaas/store-functions

stutijani@stutijani-GP63-Leopard-8RF:~/faasd$ echo "Hello, FaaS, world" | faas-cli invoke figlet
Hello, FaaS, world
stutijani@stutijani-GP63-Leopard-8RF:~/faasd$
```

2. Complete slack-request/handler.py

Code :

```
import json
```

```
def handle(req):
```

```
    data = {
        "text": "Serverless Message",
        "attachments": [{
            "title": "The Awesome world of Cloud Computing! COEN 241",
            "fields": [{
                "title": "Amazing Level",
                "value": "100",
                "short": True
            }],
            "author_name": "Stuti Jani",
            "author_icon": "",
            "image_url": "https://github.com/stutijani12.png"
        }],
        {
```

```

"title": "About COEN 241",
"text": "COEN 241 is the most awesome class ever!."
},
{
  "fallback": "Would you recommend COEN 241 to your friends?",
  "title": "Would you recommend COEN 241 to your friends?",
  "callback_id": "response123",
  "color": "#3AA3E3",
  "attachment_type": "default",
  "actions": [
    {
      "name": "recommend",
      "text": "Of Course!",
      "type": "button",
      "value": "recommend"
    },
    {
      "name": "definitely",
      "text": "Most Definitely!",
      "type": "button",
      "value": "definitely"
    }
  ]
}]
}
return json.dumps(data)

```

3. Complete slack-interactive/handler.py

Code :

```

import json
import urllib

```

```

def handle(req):
    urlString = urllib.unquote(req).decode('utf8').strip('payload=')

```

```

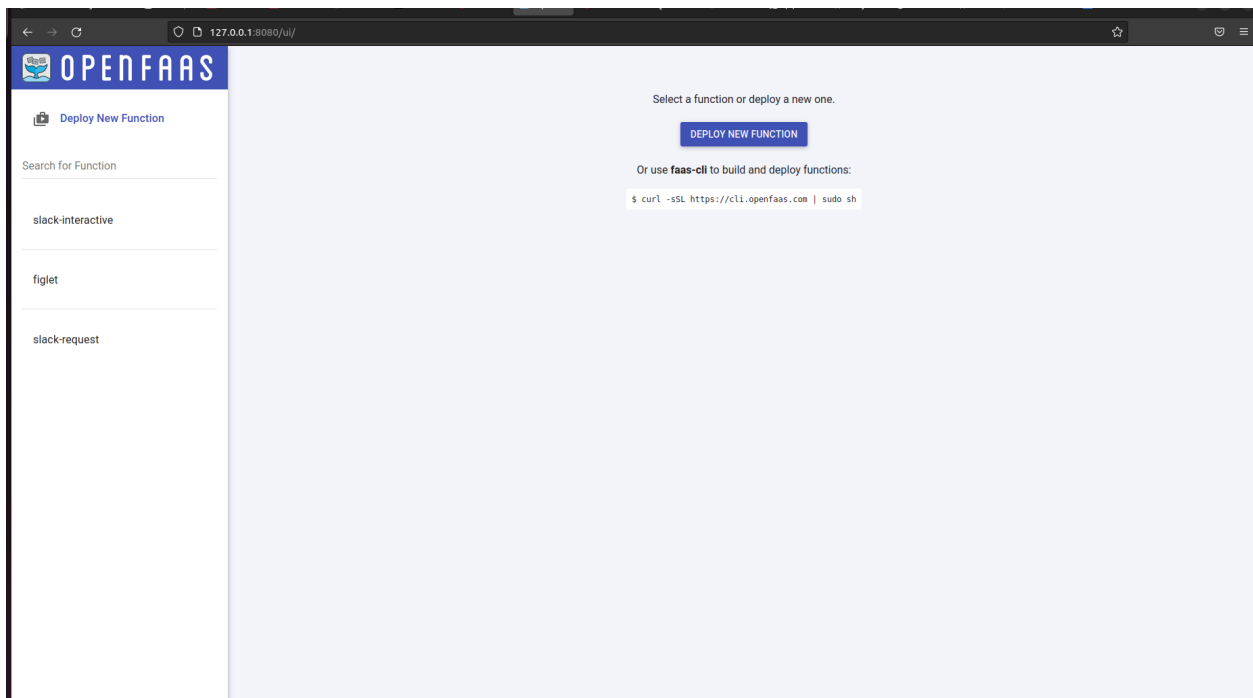
#response = json.loads(urlstring)
data = {
  "attachments": [
    {
      "replace_original": True,
      "response_type": "ephemeral",
      "fallback": "Required plain-text summary of the attachment.",
      "color": "#36a64f",
      "pretext": "Ahh yeah! Great choice, COEN 241 is absolutely amazing!",
      "author_name": "",
      "author_link": "https://github.com/stutijani12/COEN_241.git",
      "author_icon": "https://github.com/stutijani12.png",
      "title": "COEN 241",
      "title_link":
"https://www.scu.edu/engineering/academic-programs/departments-of-computer-engineering/graduate/course-descriptions/",
      "text": "Head over to COEN 241",
      "image_url":
"https://www.scu.edu/media/offices/umc/scu-brand-guidelines/visual-identity-and-photography/visual-identity-toolkit/logos-and-seals/Mission-Dont3.png",
      "thumb_url":
"https://www.scu.edu/engineering/academic-programs/departments-of-computer-engineering/graduate/course-descriptions/",
      "footer": "Slack Apps built on OpenFaas",
      "footer_icon":
"https://a.slack-edge.com/45901/marketing/img/_rebrand/meta/slack_hash_256.png"
    },
    {
      "ts": 123456789
    }
  ]
}
return json.dumps(data)

```

4. Provide a screenshot of running the following command
`sudo journalctl -u faasd --lines 40`

```
stutijani@stutijani-GP63-Leopard-8RF:~/functions$ sudo journalctl -u faasd --lines 40
Nov 02 11:24:16 stutijani-GP63-Leopard-8RF faasd[8681]: 2022/11/02 11:24:16 - gateway
Nov 02 11:24:16 stutijani-GP63-Leopard-8RF faasd[8681]: 2022/11/02 11:24:16 - queue-worker
Nov 02 11:24:16 stutijani-GP63-Leopard-8RF faasd[8681]: Starting: nats
Nov 02 11:24:16 stutijani-GP63-Leopard-8RF faasd[8681]: Creating local directory: /var/lib/faasd/nats
Nov 02 11:24:16 stutijani-GP63-Leopard-8RF faasd[8681]: 2022/11/02 11:24:16 Running nats with user:
Nov 02 11:24:16 stutijani-GP63-Leopard-8RF faasd[8681]: 2022/11/02 11:24:16 Created container: nats
Nov 02 11:24:17 stutijani-GP63-Leopard-8RF faasd[8681]: 2022/11/02 11:24:17 nats has IP: 10.62.0.2
Nov 02 11:24:17 stutijani-GP63-Leopard-8RF faasd[8681]: 2022/11/02 11:24:17 Task: nats Container: nats
Nov 02 11:24:17 stutijani-GP63-Leopard-8RF faasd[8681]: Starting: prometheus
Nov 02 11:24:17 stutijani-GP63-Leopard-8RF faasd[8681]: Creating local directory: /var/lib/faasd/prometheus
Nov 02 11:24:17 stutijani-GP63-Leopard-8RF faasd[8681]: 2022/11/02 11:24:17 Running prometheus with
Nov 02 11:24:17 stutijani-GP63-Leopard-8RF faasd[8681]: 2022/11/02 11:24:17 Created container: prometheus
Nov 02 11:24:17 stutijani-GP63-Leopard-8RF faasd[8681]: 2022/11/02 11:24:17 prometheus has IP: 10.62.0.3
Nov 02 11:24:17 stutijani-GP63-Leopard-8RF faasd[8681]: 2022/11/02 11:24:17 Task: prometheus Container: prometheus
Nov 02 11:24:19 stutijani-GP63-Leopard-8RF faasd[8681]: Starting: basic-auth-plugin
Nov 02 11:24:19 stutijani-GP63-Leopard-8RF faasd[8681]: 2022/11/02 11:24:19 Created container: basic-auth-plugin
Nov 02 11:24:19 stutijani-GP63-Leopard-8RF faasd[8681]: 2022/11/02 11:24:19 basic-auth-plugin has IP: 10.62.0.4
Nov 02 11:24:19 stutijani-GP63-Leopard-8RF faasd[8681]: 2022/11/02 11:24:19 Task: basic-auth-plugin Container: basic-auth-plugin
Nov 02 11:24:19 stutijani-GP63-Leopard-8RF faasd[8681]: Starting: gateway
Nov 02 11:24:20 stutijani-GP63-Leopard-8RF faasd[8681]: 2022/11/02 11:24:20 Created container: gateway
Nov 02 11:24:21 stutijani-GP63-Leopard-8RF faasd[8681]: 2022/11/02 11:24:21 gateway has IP: 10.62.0.5
Nov 02 11:24:21 stutijani-GP63-Leopard-8RF faasd[8681]: 2022/11/02 11:24:21 Task: gateway Container: gateway
Nov 02 11:24:22 stutijani-GP63-Leopard-8RF faasd[8681]: Starting: queue-worker
Nov 02 11:24:24 stutijani-GP63-Leopard-8RF faasd[8681]: 2022/11/02 11:24:24 Created container: queue-worker
Nov 02 11:24:24 stutijani-GP63-Leopard-8RF faasd[8681]: 2022/11/02 11:24:24 queue-worker has IP: 10.62.0.6
Nov 02 11:24:24 stutijani-GP63-Leopard-8RF faasd[8681]: 2022/11/02 11:24:24 Task: queue-worker Container: queue-worker
Nov 02 11:24:24 stutijani-GP63-Leopard-8RF faasd[8681]: 2022/11/02 11:24:24 Supervisor init done in:
Nov 02 11:24:24 stutijani-GP63-Leopard-8RF faasd[8681]: 2022/11/02 11:24:24 Looking up IP for: "prometheus"
Nov 02 11:24:24 stutijani-GP63-Leopard-8RF faasd[8681]: 2022/11/02 11:24:24 Resolver rebuilding map
Nov 02 11:24:24 stutijani-GP63-Leopard-8RF faasd[8681]: 2022/11/02 11:24:24 Looking up IP for: "gateway"
Nov 02 11:24:24 stutijani-GP63-Leopard-8RF faasd[8681]: 2022/11/02 11:24:24 Resolver: "localhost"="10.62.0.1"
Nov 02 11:24:24 stutijani-GP63-Leopard-8RF faasd[8681]: 2022/11/02 11:24:24 Resolver: "faasd-provider"="10.62.0.2"
Nov 02 11:24:24 stutijani-GP63-Leopard-8RF faasd[8681]: 2022/11/02 11:24:24 Resolver: "nats"="10.62.0.2"
Nov 02 11:24:24 stutijani-GP63-Leopard-8RF faasd[8681]: 2022/11/02 11:24:24 Resolver: "prometheus"="10.62.0.3"
Nov 02 11:24:24 stutijani-GP63-Leopard-8RF faasd[8681]: 2022/11/02 11:24:24 Resolver: "basic-auth-plugin"="10.62.0.4"
Nov 02 11:24:24 stutijani-GP63-Leopard-8RF faasd[8681]: 2022/11/02 11:24:24 Resolver: "queue-worker"="10.62.0.6"
Nov 02 11:24:24 stutijani-GP63-Leopard-8RF faasd[8681]: 2022/11/02 11:24:24 faasd: waiting for SIGTERM
Nov 02 11:24:24 stutijani-GP63-Leopard-8RF faasd[8681]: 2022/11/02 11:24:24 Proxy from: 0.0.0.0:8080 to: 127.0.0.1:9090
Nov 02 11:24:24 stutijani-GP63-Leopard-8RF faasd[8681]: 2022/11/02 11:24:24 Proxy from: 127.0.0.1:9090 to: 0.0.0.0:8080
lines 1-40/40 (END)...skipping...
Nov 02 11:24:16 stutijani-GP63-Leopard-8RF faasd[8681]: 2022/11/02 11:24:16 - gateway
Nov 02 11:24:16 stutijani-GP63-Leopard-8RF faasd[8681]: 2022/11/02 11:24:16 - queue-worker
Nov 02 11:24:16 stutijani-GP63-Leopard-8RF faasd[8681]: Starting: nats
Nov 02 11:24:16 stutijani-GP63-Leopard-8RF faasd[8681]: Creating local directory: /var/lib/faasd/nats
Nov 02 11:24:16 stutijani-GP63-Leopard-8RF faasd[8681]: 2022/11/02 11:24:16 Running nats with user: "65534"
Nov 02 11:24:16 stutijani-GP63-Leopard-8RF faasd[8681]: 2022/11/02 11:24:16 Created container: nats
Nov 02 11:24:17 stutijani-GP63-Leopard-8RF faasd[8681]: 2022/11/02 11:24:17 nats has IP: 10.62.0.2
Nov 02 11:24:17 stutijani-GP63-Leopard-8RF faasd[8681]: 2022/11/02 11:24:17 Task: nats Container: nats
Nov 02 11:24:17 stutijani-GP63-Leopard-8RF faasd[8681]: Starting: prometheus
Nov 02 11:24:17 stutijani-GP63-Leopard-8RF faasd[8681]: Creating local directory: /var/lib/faasd/prometheus
Nov 02 11:24:17 stutijani-GP63-Leopard-8RF faasd[8681]: 2022/11/02 11:24:17 Running prometheus with user: "65534"
Nov 02 11:24:17 stutijani-GP63-Leopard-8RF faasd[8681]: 2022/11/02 11:24:17 Created container: prometheus
Nov 02 11:24:17 stutijani-GP63-Leopard-8RF faasd[8681]: 2022/11/02 11:24:17 prometheus has IP: 10.62.0.3
Nov 02 11:24:17 stutijani-GP63-Leopard-8RF faasd[8681]: 2022/11/02 11:24:17 Task: prometheus Container: prometheus
```

5. Provide a screenshot of your OpenFaaS gateway AFTER deploying figlet, slack-handler and slack-interactive functions



6. Provide a screenshot of invoking slack-request and slack-interactive functions

```

stutijani@stutijani-GP63-Leopard-8RF:~/functions$ faas-cli invoke slack-request
Reading from STDIN - hit (Control + D) to stop.
{"text": "Serverless Message", "attachments": [{"fields": [{"short": true, "value": "100", "title": "Amazing Level"}], "author_icon": "", "image_url": "https://github.com/stutijani12.png", "author_name": "Stuti Jani", "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"}]}
stutijani@stutijani-GP63-Leopard-8RF:~/functions$ ^C
stutijani@stutijani-GP63-Leopard-8RF:~/functions$ faas-cli invoke slack-interactive
Reading from STDIN - hit (Control + D) to stop.
{"text": "Serverless Message", "attachments": [{"fields": [{"short": true, "value": "100", "title": "Amazing Level"}], "author_icon": "", "image_url": "https://github.com/stutijani12.png", "author_name": "Stuti Jani", "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"}]}
stutijani@stutijani-GP63-Leopard-8RF:~/functions$

```

```

ur friends?", "attachment_type": "default"}]}
stutijani@stutijani-GP63-Leopard-8RF:~/functions$ curl -d '{"Hello":"COEN 241"}' http://127.0.0.1:8080/function/slack-interactive
{"text": "Serverless Message", "attachments": [{"fields": [{"short": true, "value": "100", "title": "Amazing Level"}], "author_icon": "", "image_url": "https://github.com/stutijani12.png", "author_name": "Stuti Jani", "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"}]}
stutijani@stutijani-GP63-Leopard-8RF:~/functions$

```

```

value": "definitely"}], "callback_id": "response123", "fallback": "Would you recommend COEN 241 to your friends?", "attachment_type": "default"}]}
stutijani@stutijani-GP63-Leopard-8RF:~/functions$ curl -d '{"Hello":"COEN 241"}' http://127.0.0.1:8080/function/slack-request
{"text": "Serverless Message", "attachments": [{"fields": [{"short": true, "value": "100", "title": "Amazing Level"}], "author_icon": "", "image_url": "https://github.com/stutijani12.png", "author_name": "Stuti Jani", "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"}]}
stutijani@stutijani-GP63-Leopard-8RF:~/functions$

```