

CC COEN-241 HW - 2

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- 1. Provide a screenshot of invoking the figlet function (5 pts)**

```
ubuntu@faasd:~$ faas-cli store deploy figlet
WARNING! You are not using an encrypted connection to the gateway, consider using HTTPS.

Deployed. 200 OK.
URL: http://10.101.54.43:8080/function/figlet

ubuntu@faasd:~$ faas-cli store inspect figlet
Title:      figlet
Author:     openfaas
Description:
Generate ASCII logos with the figlet CLI

Image:      ghcr.io/openfaas/figlet:latest
Process:    figlet
Repo URL:   https://github.com/openfaas/store-functions
ubuntu@faasd:~$ echo "Hello, FaaS, world" | faas-cli invoke figlet

Hello FaaS, world

ubuntu@faasd:~$
```

2. Provide a screenshot of running the following command (5 pts)
- ```
sudo journalctl -u faasd --lines 40
```

```

ubuntu@faasd:~$ sudo journalctl -u faasd --lines 40
Feb 22 22:15:55 faasd faasd[4869]: Removing old container for: nats
Feb 22 22:15:55 faasd faasd[4869]: Removing old container for: prometheus
Feb 22 22:15:55 faasd faasd[4869]: 2024/02/22 22:15:55 Start-up order:
Feb 22 22:15:55 faasd faasd[4869]: 2024/02/22 22:15:55 - nats
Feb 22 22:15:55 faasd faasd[4869]: 2024/02/22 22:15:55 - prometheus
Feb 22 22:15:55 faasd faasd[4869]: 2024/02/22 22:15:55 - gateway
Feb 22 22:15:55 faasd faasd[4869]: 2024/02/22 22:15:55 - queue-worker
Feb 22 22:15:55 faasd faasd[4869]: Starting: nats
Feb 22 22:15:55 faasd faasd[4869]: Creating local directory: /var/lib/faasd/nats
Feb 22 22:15:55 faasd faasd[4869]: 2024/02/22 22:15:55 Running nats with user: "65534"
Feb 22 22:15:55 faasd faasd[4869]: 2024/02/22 22:15:55 Created container: nats
Feb 22 22:15:55 faasd faasd[4869]: 2024/02/22 22:15:55 nats has IP: 10.62.0.2
Feb 22 22:15:55 faasd faasd[4869]: 2024/02/22 22:15:55 Task: nats Container: nats
Feb 22 22:15:55 faasd faasd[4869]: Starting: prometheus
Feb 22 22:15:55 faasd faasd[4869]: Creating local directory: /var/lib/faasd/prometheus
Feb 22 22:15:55 faasd faasd[4869]: 2024/02/22 22:15:55 Running prometheus with user: "65534"
Feb 22 22:15:55 faasd faasd[4869]: 2024/02/22 22:15:55 Created container: prometheus
Feb 22 22:15:56 faasd faasd[4869]: 2024/02/22 22:15:56 prometheus has IP: 10.62.0.3
Feb 22 22:15:56 faasd faasd[4869]: 2024/02/22 22:15:56 Task: prometheus Container: prometheus
Feb 22 22:15:56 faasd faasd[4869]: Starting: gateway
Feb 22 22:15:56 faasd faasd[4869]: 2024/02/22 22:15:56 Created container: gateway
Feb 22 22:15:56 faasd faasd[4869]: 2024/02/22 22:15:56 gateway has IP: 10.62.0.4
Feb 22 22:15:56 faasd faasd[4869]: 2024/02/22 22:15:56 Task: gateway Container: gateway
Feb 22 22:15:56 faasd faasd[4869]: Starting: queue-worker
Feb 22 22:15:56 faasd faasd[4869]: 2024/02/22 22:15:56 Created container: queue-worker
Feb 22 22:15:56 faasd faasd[4869]: 2024/02/22 22:15:56 queue-worker has IP: 10.62.0.5
Feb 22 22:15:56 faasd faasd[4869]: 2024/02/22 22:15:56 Task: queue-worker Container: queue-worker
Feb 22 22:15:56 faasd faasd[4869]: 2024/02/22 22:15:56 Supervisor init done in: 12 seconds
Feb 22 22:15:56 faasd faasd[4869]: 2024/02/22 22:15:56 Looking up IP for: "prometheus"
Feb 22 22:15:56 faasd faasd[4869]: 2024/02/22 22:15:56 Resolver rebuilding map
Feb 22 22:15:56 faasd faasd[4869]: 2024/02/22 22:15:56 Resolver: "localhost"="127.0.0.1"
Feb 22 22:15:56 faasd faasd[4869]: 2024/02/22 22:15:56 Resolver: "faasd-provider"="10.62.0.1"
Feb 22 22:15:56 faasd faasd[4869]: 2024/02/22 22:15:56 Resolver: "nats"="10.62.0.2"
Feb 22 22:15:56 faasd faasd[4869]: 2024/02/22 22:15:56 Resolver: "prometheus"="10.62.0.3"
Feb 22 22:15:56 faasd faasd[4869]: 2024/02/22 22:15:56 Resolver: "gateway"="10.62.0.4"
Feb 22 22:15:56 faasd faasd[4869]: 2024/02/22 22:15:56 Resolver: "queue-worker"="10.62.0.5"
Feb 22 22:15:56 faasd faasd[4869]: 2024/02/22 22:15:56 Looking up IP for: "gateway"
Feb 22 22:15:56 faasd faasd[4869]: 2024/02/22 22:15:56 Proxy from: 0.0.0.0:8080, to: gateway:8080 (10.62.0.4)
Feb 22 22:15:56 faasd faasd[4869]: 2024/02/22 22:15:56 faasd: waiting for SIGTERM or SIGINT
Feb 22 22:15:56 faasd faasd[4869]: 2024/02/22 22:15:56 Proxy from: 127.0.0.1:9090, to: prometheus:9090 (10.62.0.3)
ubuntu@faasd:~$

```

- ### 3. Complete slack-request/handler.py (10 pts)

```
ubuntu@faasd:~/functions/slack-requests$ cat handler.py
import json

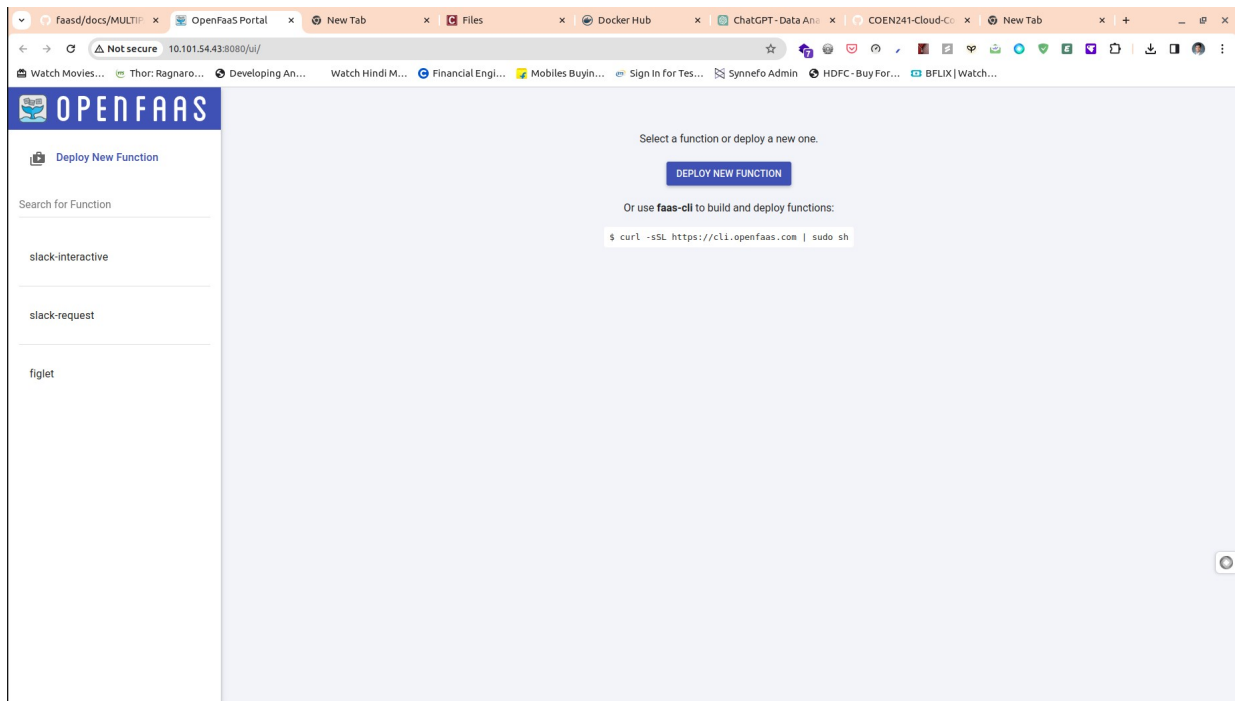
def handle(req):
 data = {
 "text": "Serverless Message",
 "attachments": [{
 "title": "The Awesome world of Cloud Computing! COEN 241",
 "fields": [{
 "title": "Amazing Level",
 "value": "100",
 "short": True
 }],
 "author_name": "Nityanand Pujari",
 "author_icon": "https://github.com/Nitai2123.png",
 "image_url": "https://github.com/Nitai2123.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)
```

#### 4. Complete slack-interactive/handler.py (10 pts)

```
ubuntu@faasd:~/functions/slack-interactive$ cat handler.py
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": "Nityanand Pujari",
 "author_link": "https://github.com/Nitai2123",
 "author_icon": "https://github.com/Nitai2123.png",
 "title": "COEN 241",
 "title_link": "https://www.scu.edu/engineering/academic-programs/department-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-app-photography/visual-identity-toolkit/logos-and-seals/Mission-Dont3.png",
 "thumb_url": "https://www.scu.edu/engineering/academic-programs/department-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)
ubuntu@faasd:~/functions/slack-interactive$
```

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



6. Provide a screenshot of invoking slack-request and slack-interactive functions (5 pts)

**Invoking Slack-Request:**

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| Response status:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Round-trip (s) |
| 200                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.055          |
| Response body                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                |
| <pre> {   "text": "Serverless Message",   "attachments": [     {       "fields": [         {           "short": true,           "value": "100",           "title": "Amazing Level"         }       ],       "author_icon": "https://github.com/Nitaiz123.png",       "image_url": "https://github.com/Nitaiz123.png",       "author_name": "Nityanand Pujari",       "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"     }   ] } </pre> |                |

## Invoking Slack-Interactive:

INVOKE

☒ Text
 ☐ JSON
 ☐ Download

Request body

"Nityanand"

Response status

200

Round-trip (s)

0.082

Response body

```
{
 "attachments": [
 {
 "footer": "Slack Apps built on OpenFaas",
 "author_link": "https://github.com/Nitaiz123",
 "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://github.com/Nitaiz123.png"
 }
]
}
```

## 7. Complete the chatbot with a yml file (25pt)

```
ubuntu@faasd:~/chatbot$ cat handler.py
def handle(req):
 """Process incoming requests based on the input text"""
 if "name" in req.lower() or "what is your name" in req.lower():
 # Respond with the bot's name in 3 different ways
 responses = [
 "My name is Coen241.",
 "I'm called Coen241.",
 "You can call me COEN241."
]
 return "\n".join(responses)
 elif "current time" in req.lower() or "current date" in req.lower():
 # Respond with the current date and time in 3 different ways
 now = datetime.datetime.now()
 responses = [
 now.strftime("The current time is %H:%M on %B %d, %Y."),
 now.strftime("It's now %H:%M on %d/%m/%Y."),
 now.strftime("Today is %B %d, %Y, and the time is %H:%M.")
]
 return "\n".join(responses)
 elif req.lower().startswith("generate a figlet for"):
 # Extract the text to generate figlet
 text = req[len("generate a figlet for"):].strip("\n ")
 # For the purpose of this example, we'll simulate figlet output using PyFiglet
 f = Figlet(font='slant')
 return f.renderText(text)
 else:
 return "I'm not sure how to process that request."
ubuntu@faasd:~/chatbot$
```

```
ubuntu@faasd:~$ cat chatbot.yml
version: 1.0
provider:
 name: openfaas
 gateway: http://10.101.54.43:8080
functions:
 chatbot:
 lang: python
 handler: ./chatbot
 image: nitaiz/chatbot:latest
ubuntu@faasd:~$
```

## 8. Provide a screenshot of invoking three different cases of the chatbot (5 pts)

## chatbot



Status Replicas Invocation count  
Not ready 1 26

Image URL  
docker.io/nitaiz/chatbot:latest http://10.101.54.43:8080/function/chatbot



Function process  
python index.py

### Invoke function

INVOKE

☒ Text ☐ JSON ☐ Download

Request body

"name"



Response status Round-trip (s)  
200 0.164

Response body

My name is Coen241.  
I'm called Coen241.  
You can call me COEN241.



## chatbot



Status Replicas Invocation count  
Not ready 1 26

Image URL  
docker.io/nitaiz/chatbot:latest http://10.101.54.43:8080/function/chatbot



Function process  
python index.py

### Invoke function

INVOKE

☒ Text ☐ JSON ☐ Download

Request body

"current time"



Response status Round-trip (s)  
200 0.202

Response body

The current time is 21:28 on February 23, 2024.  
It's now 21:28 on 23/02/2024.  
Today is February 23, 2024, and the time is 21:28.



```
ubuntu@faasd:~$ echo "generate a figlet for Nityanand" | faas-cli invoke chatbot
```



```
ubuntu@faasd:~$
```

### 1. What is the command to invoke the slack-request function (2 pts)?

→ echo "Nityanand Pujari" | faas-cli invoke slack-request

### 2. What is the output you see when you invoke the slack-request function? (2 pts)

```
ubuntu@faasd:~$ echo "Nityanand Pujari" | faas-cli invoke slack-request
```

```
{
 "text": "Serverless Message",
 "attachments": [
 {
 "fields": [
 {
 "short": true,
 "value": "100",
 "title": "Amazing Level"
 }
],
 "author_icon": "https://github.com/Nitaiz123.png",
 "image_url": "https://github.com/Nitaiz123.png",
 "author_name": "Nityanand Pujari",
 "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"
 }
]
 }
]
}
```

```
ubuntu@faasd:~$
```

### 3. What is the command to invoke the slack-interactive function? (2 pts)

a. Via curl

→ curl -d '{"Nityanand":"COEN 241"}' http://10.101.54.43:8080/function/slack-interactive

b. Via faas-cli

→ sudo faas-cli invoke slack-interactive

### 4. What is the output you see when you invoke the slack-interactive function? (2 pts)

```
ubuntu@faasd:~$ curl -d '{"Nityanand":"COEN 241"}' http://10.101.54.43:8080/function/slack-interactive
```

```
{
 "attachments": [
 {
 "footer": "Slack Apps built on OpenFaas",
 "author_link": "https://github.com/Nitaiz123",
 "color": "#36a64f",
 "text": "Head over to COEN 241",
 "title": "COEN 241",
 "ts": 123456789,
 "author_name": "",
 "title_link": "https://www.scu.edu/engineering/academic-programs/departments-of-computer-engineering/graduate/course-descriptions/",
 "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",
 "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/departments-of-computer-engineering/graduate/course-descriptions/",
 "author_icon": "https://github.com/Nitaiz123.png"
 }
]
}
```

```
ubuntu@faasd:~/functions$ sudo faas-cli invoke slack-interactive
```

```
Reading from STDIN - hit (Control + D) to stop.
```

```
"Hi"
```

```
{
 "attachments": [
 {
 "footer": "Slack Apps built on OpenFaas",
 "author_link": "https://github.com/Nitaiz123",
 "color": "#36a64f",
 "text": "Head over to COEN 241",
 "title": "COEN 241",
 "ts": 123456789,
 "author_name": "",
 "title_link": "https://www.scu.edu/engineering/academic-programs/departments-of-computer-engineering/graduate/course-descriptions/",
 "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",
 "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/departments-of-computer-engineering/graduate/course-descriptions/",
 "author_icon": "https://github.com/Nitaiz123.png"
 }
]
}
```

```
ubuntu@faasd:~/functions$
```

### 5. How would you pass different arguments to the functions? (3 pts)

Here are two ways of passing arguments to functions:

1. Using faas-cli: We can invoke the figlet function from the command line using faas-cli and pipe in the argument "Hello, FaaS World" like this:

echo "Hello, FaaS World" | faas-cli invoke figlet

The text "Hello, FaaS World" gets passed as an argument to the figlet function.

2. Using curl: We can send arguments in a POST request to an HTTP server. For example:

3. curl -d '{"text":"Hello COEN 241"}' <http://example.com/function/slack-request>

This curl command sends a JSON payload `{"text":"Hello COEN 241"}` as data in a POST request to the `/function/slack-request` endpoint. The text "Hello COEN 241" gets passed as an argument to the function.

## 6. How would you change the slack-interactive function to react to different inputs? (3 pts)

→ The `unquote` function from the `urllib` package is used to decode a string into a URL, using UTF-8 encoding by default. The `json.load()` method then transforms the urlstring JSON string into a Python dictionary, stored in the response variable.

However, the response variable is currently not used after being assigned. To enable the slack-interactive function to handle different inputs, we can modify it to use the response data.

Since response is a Python dictionary, it can be incorporated into the existing data dictionary. This will allow the function to start responding to varied inputs. By returning `json.dumps(data)`, the slack-interactive function can now handle and respond to diverse inputs, based on the response data.

## 7. How long does it take for the chat response to come back? (10pts)

- For the first request that does not call figlet
- For the second request that does not call figlet
- Average over 10 requests that do not call figlet
- For the first request that calls figlet
- For the second request that calls figlet
- For the second request that calls figlet that follows the first request that does not call figlet
- Average over 10 requests that do call figlet

```
import requests
import time

Your chatbot's endpoint
CHATBOT_URL = "http://10.101.54.43:8080/function/chatbot"

def measure_response_time(data, repeat=1):
 """Measure the response time for a single request or the average over multiple requests."""
 total_time = 0
 for _ in range(repeat):
 start_time = time.time()
 response = requests.post(CHATBOT_URL, data=data)
 end_time = time.time()
 total_time += (end_time - start_time)
 if repeat == 1: # If only one request, return its time directly
 return end_time - start_time
 return total_time / repeat # Return average time if multiple requests

def main():
 # Measure response times according to the given scenarios
 # a. For the first request that does not call figlet
 response_time_a = measure_response_time("What is your name?")
 print(f'a. Response time for the first request (no figlet): {response_time_a:.4f} seconds')

 # b. For the second request that does not call figlet
 response_time_b = measure_response_time("What is your name?")
 print(f'b. Response time for the second request (no figlet): {response_time_b:.4f} seconds')

 # c. Average over 10 requests that do not call figlet
 average_response_time_c = measure_response_time("What is your name?", repeat=10)
 print(f'c. Average response time over 10 requests (no figlet): {average_response_time_c:.4f} seconds')

 # d. For the first request that calls figlet
 response_time_d = measure_response_time("Generate a figlet for Hello")
 print(f'd. Response time for the first request (with figlet): {response_time_d:.4f} seconds')

 # e. For the second request that calls figlet
 response_time_e = measure_response_time("Generate a figlet for Hello")
 print(f'e. Response time for the second request (with figlet): {response_time_e:.4f} seconds')

 # f. For the second request that calls figlet following the first request that does not call figlet
 # Measure the first request (no figlet)
 measure_response_time("What is your name?")
 # Measure the second request (with figlet)
 measure_response_time("Generate a figlet for Hello")

-- INSERT --
```



```
ubuntu@faasd:~$ python3 chatbot_avg.py
a. Response time for the first request (no figlet): 0.1464 seconds
b. Response time for the second request (no figlet): 0.1449 seconds
c. Average response time over 10 requests (no figlet): 0.1483 seconds
d. Response time for the first request (with figlet): 0.1524 seconds
e. Response time for the second request (with figlet): 0.1528 seconds
f. Response time for the second request (with figlet, after no figlet): 0.1526 seconds
g. Average response time over 10 requests (with figlet): 0.1527 seconds
ubuntu@faasd:~$
```

**8. Now try sending a series of requests to the chatbot in parallel. At what queries per second does OpenFaaS add a new instance of the function? (6 pts)**

```
ubuntu@faasd:~$ cat chatbot_parallel.py
import concurrent.futures
import requests
import time

Your chatbot's endpoint
CHATBOT_URL = "http://10.101.54.43:8080/function/chatbot"

def send_request(data):
 """Function to send a single request to the chatbot."""
 try:
 response = requests.post(CHATBOT_URL, data=data)
 return response.status_code
 except Exception as e:
 return str(e)

def fire_requests(requests_per_second, duration_in_seconds=10):
 """Fire requests in parallel aiming for a target rate of requests per second."""
 with concurrent.futures.ThreadPoolExecutor() as executor:
 futures = []
 start_time = time.time()

 while time.time() - start_time < duration_in_seconds:
 for _ in range(requests_per_second):
 # Adjust the request content as needed
 future = executor.submit(send_request, "What is your name?")
 futures.append(future)
 time.sleep(1) # Wait for a second before firing the next batch of requests

 results = [future.result() for future in futures]

 success_responses = [result for result in results if result == 200]
 print(f"Total requests: {len(results)}")
 print(f"Successful responses: {len(success_responses)}")
 print(f"Success rate: {len(success_responses) / len(results) * 100:.2f}%")

Example usage:
requests_per_second = 5 # Adjust this to test different load levels
fire_requests(requests_per_second)
```

```
ubuntu@faasd:~$ python3 chatbot_parallel.py
Total requests: 50
Successful responses: 50
Success rate: 100.00%
```

Extra Credit

# Webhook URLs for Your Workspace

To dispatch messages with your webhook URL, send your [message](#) in JSON as the body of an `application/json` POST request.

Add this webhook to your workspace below to activate this curl example.

Sample curl request to post to a channel:

```
curl -X POST -H 'Content-type: application/json' --data '{"text":"Hello, World!"}'
https://hooks.slack.com/services/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
```

Copy

| Webhook URL                                         | Channel           | Added By                                                                      |
|-----------------------------------------------------|-------------------|-------------------------------------------------------------------------------|
| <div>https://hooks.slack.com/</div> <div>Copy</div> | #incoming-webhook | <div>Nityanand Rajendrakumar Pujari</div> <div>Feb 23, 2024</div> <div></div> |

Add New Webhook to Workspace

api.slack.com/apps/A06LT3TKCKT/slash-commands?

Watch Movies...Thor: Ragnar...Developing An...Watch Hindi M...Financial Engi...Mobiles Buyin...Sign In for Tes...Synnefo AdminHDFC - Buy For...BFLIX | Watch...

Create New Command

Command/coen241

Request URLhttp://10.101.54.43:8080/function/...

Short DescriptionExtra Credit - Nityanand Pujari

Usage Hint[which rocket to launch]  
Optionally list any parameters that can be passed.

Escape channels, users, and links sent to your app  
Unescaped: @user #general

Preview of Autocomplete Entry  
Commands matching "coen241"  
OpeenFaas-Integration  
/coen241Extra Credit - Nityanand Pu...  
+/coen241

CancelSave

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Channels

- # general
- # grad-engr-fall-22-admits
- # housing
- # incoming-webhook
- # Introductions
- + Add channels

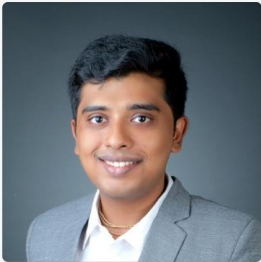
Direct messages








- Nityanand Rajendrakumar Pujari you
- + Add coworkers

Apps







- + Add apps

# incoming-webhook

- + Add a bookmark
- Nityanand Pujari  
The Awesome world of Cloud Computing! COEN 241 (1.6 kB) +  
Amazing Level  
100  
  
About COEN 241  
COEN 241 is the most awesome class ever!.  
Would you recommend COEN 241 to your friends?  
Of Course! Most Definitely!

B I       

Message #incoming-webhook

Slack needs your permission to enable desktop notifications.

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Channels

# general

# grad-engr-fall-22-admits

# housing

# incoming-webhook

# introductions

Add channels

Direct messages

Nityanand Rajendrakumar Pujari you

Add coworkers

Apps

Add apps

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# incoming-webhook

Today


Only visible to you

Ahh yeah! Great choice, COEN 241 is absolutely amazing!

COEN 241

Head over to COEN 241

Slack Apps built on OpenFaaS · Nov 29th, 1973 (16 kB)



Message #incoming-webhook

Slack needs your permission to enable desktop notifications.

```
ngrok (Ctrl+C to quit)

Try the new Traffic Inspector dev preview: https://ngrok.com/r/ti

Session Status online
Account Nityanand Pujari (Plan: Free)
Version 3.6.0
Region United States (California) (us-cal-1)
Latency 19ms
Web Interface http://127.0.0.1:4040
Forwarding https://9af1-24-23-244-181.ngrok-free.app -> http://localhost:8080

Connections
 ttl opn rt1 rt5 p50 p90
 4 0 0.01 0.01 60.05 60.05

HTTP Requests

POST /function/slack-interactive 200 OK
POST /function/slack-request 200 OK
POST /function/slack-interactive 200 OK
POST /function/slack-request 200 OK
```