

# COEN 241 HW 2

## Serverless Infrastructure

### Justin Li

1. Command to invoke slack-request function:
  - a. `curl localhost:8080/function/slack-request -d "I'm COEN 241"`
  - b. `sudo faas-cli list`  
`echo "I'm COEN 241" | faas-cli invoke slack-request`

2. Received request: I'm COEN 241

```
{
  "text": "Serverless Message",
  "attachments": [
    {
      "fields": [
        {
          "short": true,
          "value": "100",
          "title": "Amazing Level"
        }
      ],
      "author_icon": "https://avatars.githubusercontent.com/justinwli",
      "image_url": "https://i.ytimg.com/vi/AzFbpNqYsio/maxresdefault.jpg",
      "author_name": "Justin Li",
      "title": "The Awesome world of Cloud Computing! COEN 241",
      "text": "COEN 241 is the most awesome class ever!.",
      "title": "About COEN 241",
      "text": "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. Command to invoke slack-interactive function:
  - a. `curl localhost:8080/function/slack-interactive -d "I'm COEN 241"`
  - b. `sudo faas-cli list`  
`echo "I'm COEN 241" | faas-cli invoke slack-request`

4. Received request: I'm COEN 241

```
justinwli@justinserver:~/functions$ curl localhost:8080/function/slack-interactive -d "I'm COEN 241"
{"attachments": [{"footer": "Slack Apps built on OpenFaas", "author_link": "https://github.com/JJCuh/Cloud-Computing", "color": "#36a64f", "text": "Head over to COEN 241", "title": "COEN 241", "ts": 123456789, "author_name": "Justin Li", "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-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/department-of-computer-engineering/graduate/course-descriptions/", "author_icon": "https://avatars.githubusercontent.com/justinwli"}]}
```

5. Currently, you can simply input a string and it will recognize the argument and run the function. Additionally, can try using other input formats, such as a json format (eg "attribute": "value", "attribute": "value", ...), adding multiple attributes and values in quotes separated by a colon and space, and you can add as many as you desire separated by commas.

6. In the slack-interactive.yml file, under environment, we currently have content\_type set as application/json, so it currently accepts a json format eg "attribute": "value", "attribute": "value", ...), but if we wanted to react to different inputs, we could add more formats to be recognized for the input.