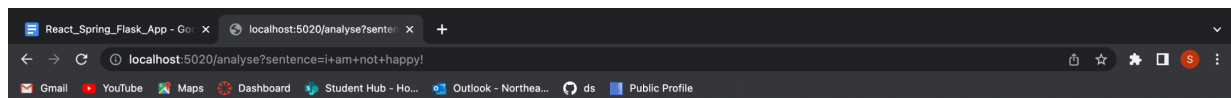


Python Microservice serving on Flask on port 5020

```
~/Desktop/DevOps/Lecture3/Lab/PythonProject/hello_flask/sa-logic/sa -- Python sentiment_analysis.py
sriha@MacBook-Air sa % python3 sentiment_analysis.py
* Serving Flask app 'sentiment_analysis'
* Debug mode: off
WARNING: This is a development server. Do not use it in a production deployment. Use a production WSGI server instead.
* Running on all addresses (0.0.0.0)
* Running on http://127.0.0.1:5020
* Running on http://10.0.0.98:5020
Press CTRL+C to quit
127.0.0.1 - - [03/Oct/2022 12:08:37] "GET /analyse?sentence=i+am+not+happy! HTTP/1.1" 200 -
127.0.0.1 - - [03/Oct/2022 12:08:37] "GET /favicon.ico HTTP/1.1" 404 -
```

Response of Python Microservice serving on Flask on port 5020



-0.5

Spring Boot Microservice serving on port 3068

The screenshot displays an IDE with the following components:

- Package Explorer:** Shows the project structure for 'sentiment-analysis-web (boot)', including 'src/main/java' and 'src/test/java'.
- Code Editor:** Displays the 'SentimentController.java' file with the following code:

```
1 package edu.sa.web;
2
3 import edu.sa.web.dto.SentenceDto;
4
5 @CrossOrigin(origins = "*")
6 @RestController
7 @RequestMapping("/api")
8 public class SentimentController {
9     private String saLogicApiUrl;
10
11     @PostMapping("/sentiment")
12     public SentimentDto sentimentAnalysis(@RequestBody SentenceDto sentenceDto) {
13         RestTemplate restTemplate = new RestTemplate();
14         return restTemplate.postForEntity(saLogicApiUrl + "/analyse/sentiment", sentenceDto, SentimentDto.class).getBody();
15     }
16
17     @GetMapping("/testHealth")
18     public String testHealth() {
19         return "hello world!";
20     }
21 }
```
- Outline:** Lists the classes in the package: 'SentimentController', 'saLogicApiUrl', 'sentimentAnalysis(@RequestBody Sent', and 'testHealth() : String'.
- Console:** Shows the Spring Boot startup logs, including the version (v2.7.4) and the application starting on port 3068.
- Terminal:** Displays the command 'demo - SentimentAnalysisWebApp (Spring Boot App) (Library/Java/JavaVirtualMachines/jdk-17.0.2.jdk/Contents/Home/bin/java (Oct 3, 2022, 12:13:21 PM) (pid: 50798))' and the output of the application starting.

Response of Spring Boot Microservice serving on port 3068

The screenshot shows the Postman interface with a POST request to 'http://localhost:3068/sentiment'. The request body is a JSON object:

```
{
  "sentence": "It is so much not working!"
}
```

The response is a 200 OK status with a JSON body:

```
{
  "sentence": "It is so much not working!",
  "polarity": 0.25
}
```

The interface also shows the 'Headers' tab with 8 headers and the 'Test Results' tab.

nginx.conf

```
~/Lab/PythonProject/hello_flask/ea-logic/ea -- Python sentiment_analysis.py  -- zsh  /opt/homebrew/etc/nginx -- zsh +
sriha@MacBook-Air nginx % cat nginx.conf
#user nobody;
worker_processes 1;

#error_log logs/error.log;
#error_log logs/error.log notice;
#error_log logs/error.log info;

#pid logs/nginx.pid;

events {
    worker_connections 1024;
}

http {
    include mime.types;
    default_type application/octet-stream;

    #log_format main '$remote_addr - $remote_user [$time_local] "$request" '
    # '$status $body_bytes_sent "$http_referer" '
    # '"$http_user_agent" "$http_x_forwarded_for"';

    #access_log logs/access.log main;

    sendfile on;
    #tcp_nopush on;

    #keepalive_timeout 0;
    keepalive_timeout 65;

    #gzip on;

    server {
        listen 3769;
        server_name localhost;

        #charset koi8-r;

        #access_log logs/host.access.log main;

        location / {
            root html;
            index index.html index.htm;
        }

        #error_page 404 /404.html;

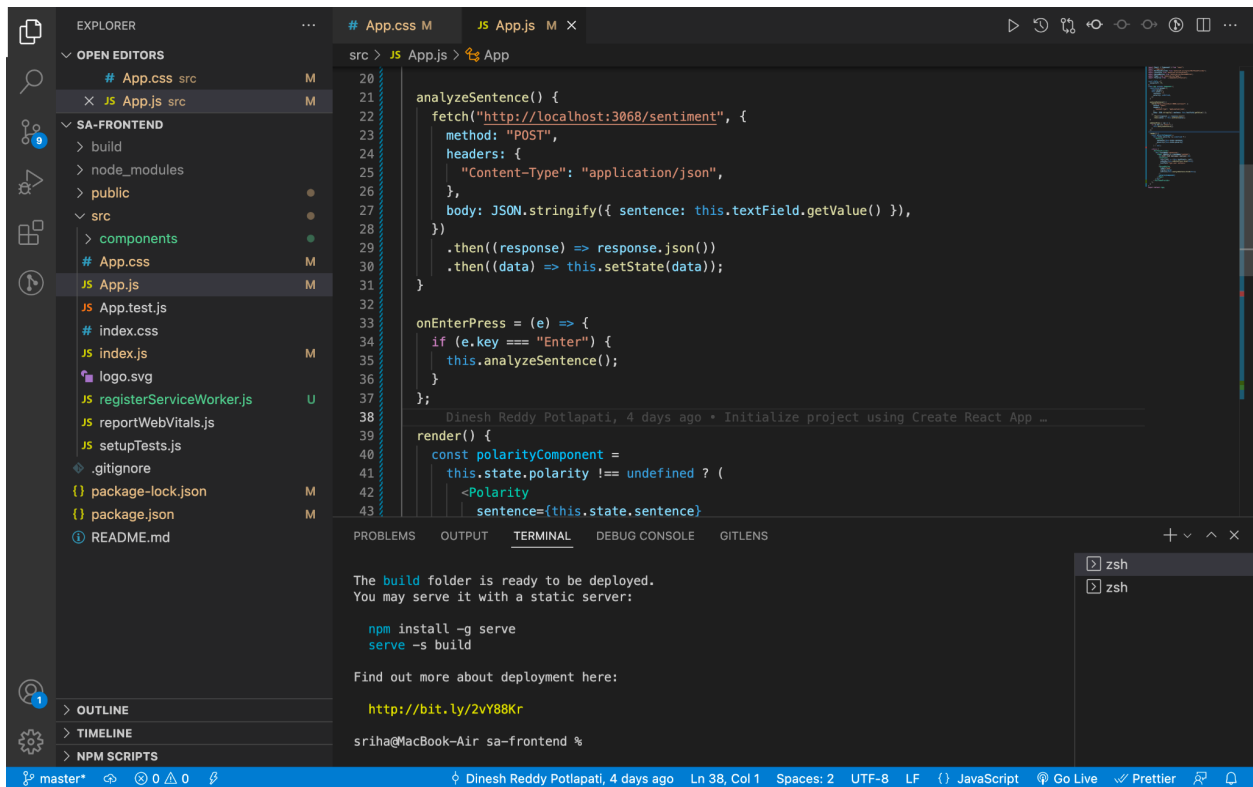
        # redirect server error pages to the static page /50x.html
        error_page 500 502 503 504 /50x.html;
        location = /50x.html {
            root html;
        }

        # proxy the PHP scripts to Apache listening on 127.0.0.1:80
        #
        #location ~ \.php$ {
        #    proxy_pass http://127.0.0.1;
    }
```

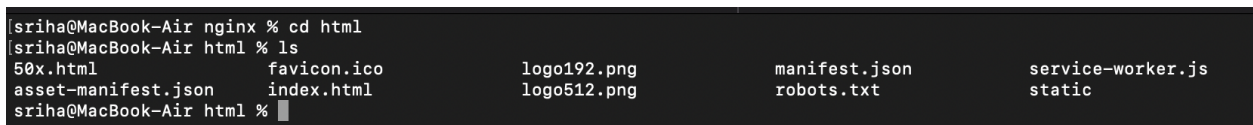
Nginx server running on port 3769

```
[sriha@MacBook-Air ~ % nginx
sriha@MacBook-Air ~ %
```

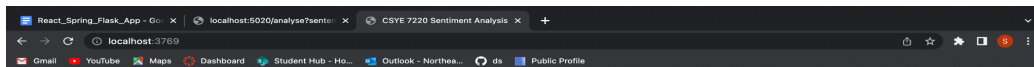
React App successful build



Adding React App Build folder contents to nginx server html folder



Serving React -> SpringBoot -> Flask Microservice App on Nginx server port 3769



CSYE 7220 Sentiment Analyser

DevOps is amazing

SEND

"DevOps is amazing" has polarity of 0.6