#### **Docker Installation**

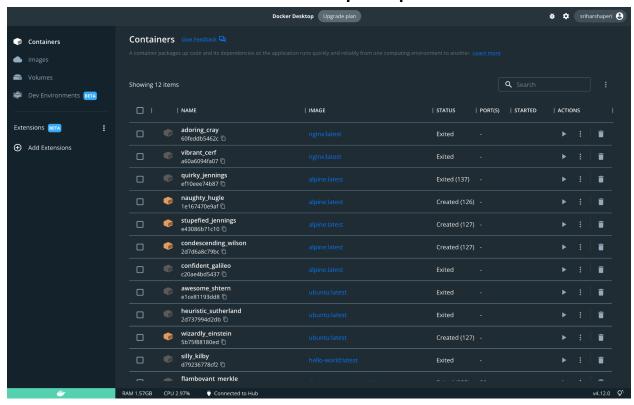
[sriha@MacBook-Air ~ % docker --version
Docker version 20.10.17, build 100c701
sriha@MacBook-Air ~ %

#### **Docker Login**

Isriha@MacBook-Air ~ % docker login
Authenticating with existing credentials...
Login Succeeded

Logging in with your password grants your terminal complete access to your account.
For better security, log in with a limited-privilege personal access token. Learn more at https://docs.docker.com/go/access-tokens/sriha@MacBook-Air ~ %

### **Docker Desktop Setup**



#### Docker run Ubuntu

[sriha@MacBook-Air ~ % docker run -i -t ubuntu
[root@2d77cd015bfb:/# ls
bin boot dev etc home lib media mnt opt proc root run sbin srv sys tmp usr var

#### **Docker run Alpine**

[sriha@MacBook-Air ~ % docker run -i -t alpine [/ # ls bin dev etc home lib media mnt opt proc root run sbin srv sys tmp usr var

### **Docker Build React-App**

```
[sriha@MacBook-Air sa-frontend % docker build -f Dockerfile -t sriharshaperi/sentiment-analysis-frontend .
[+] Building 0.2s (7/7) FINISHED

=> [internal] load build definition from Dockerfile
=> => transferring dockerfile: 85B
=> [internal] load .dockerignore
=> => transferring context: 63B
=> [internal] load metadata for docker.io/library/nginx:latest
=> [internal] load build context
=> => transferring context: 1.88MB
=> [1/2] FROM docker.io/library/nginx
=> [2/2] COPY build /usr/share/nginx/html
=> exporting to image
=> => exporting layers
=> => writing image sha256:7e3fc68d13629809e67362422130e252781e328bb5b1b6bdf19693e95e99f98a
=> => naming to docker.io/sriharshaperi/sentiment-analysis-frontend
```

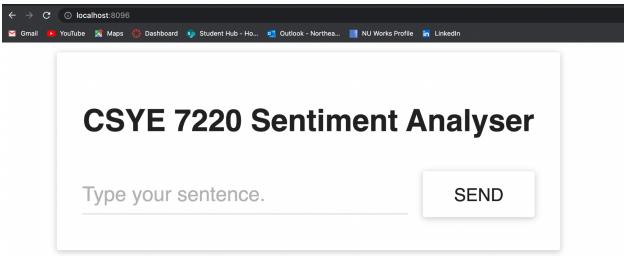
### **Docker Push React-App**

```
[sriha@MacBook-Air sa-frontend % docker push sriharshaperi/sentiment-analysis-frontend
Using default tag: latest
The push refers to repository [docker.io/sriharshaperi/sentiment-analysis-frontend]
66b8a078f8c9: Pushed
59cd114add79: Mounted from library/nginx
060241690833: Mounted from library/nginx
7a89740679a7: Mounted from library/nginx
caf1f2684a98: Mounted from library/nginx
d416aac930f7: Mounted from library/nginx
c75eaa0eefd3: Mounted from library/nginx
latest: digest: sha256:5f08184b87c626375d5dd91fb41ec674ffc1c4c3a2a65e527c1a8027313e5a89 size: 1780
sriha@MacBook-Air sa-frontend % ■
```

### **Docker Run React-App**

[sriha@MacBook-Air sa-frontend % docker run -d -p 8096:80 sriharshaperi/sentiment-analysis-frontend 0b4c63b14cb01f7dd519259cde587c8159098ad571661d219f89c23a1c9ce49b sriha@MacBook-Air sa-frontend %

## React App running on Port 8096 on docker image



### **Docker Build Python Flask App**

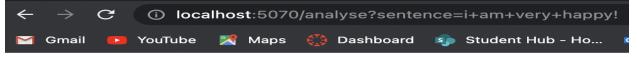
### **Docker push Python Flask App**

```
[sriha@MacBook-Air sa-logic % docker push sriharshaperi/sentiment-analysis-logic
Using default tag: latest
The push refers to repository [docker.io/sriharshaperi/sentiment-analysis-logic]
feb93180903e: Pushed
5f70bf18a086: Layer already exists
8eff40da8ebd: Pushed
acb0741ebfed: Mounted from library/python
66bf7e1351e9: Mounted from library/python
db8d85528ba0: Mounted from library/python
3b937c2aa23f: Mounted from library/python
c75eaa0eefd3: Mounted from sriharshaperi/sentiment-analysis-frontend
latest: digest: sha256:80a6bbafe04035a314992097b73cb2a416793d49645ebd039c26b85993121c2e size: 1994
sriha@MacBook-Air sa-logic %
```

# **Docker Run Python Flask App**

[sriha@MacBook-Air sa-logic % docker run -d -p 5070:5020 sriharshaperi/sentiment-analysis-logic e3c7915133ca44f91020871ed3acc54d4b3e51e5668a7267227aba24f4336ffa sriha@MacBook-Air sa-logic %

# Running Python Flask App on port 5070 on docker image



### **Docker Build Spring Boot App**

```
[sriha@MacBook-Air sentiment-analysis-webapp % docker build -f Docker -t sriharshaperi/sa-springboot-webapp .
[+] Building 1.4s (8/8) FINISHED

=> [internal] load build definition from Docker

=> > transferring dockerfile: 527B

=> [internal] load .dockerignore

=> > transferring context: 2B

=> [internal] load metadata for docker.io/library/openjdk:17

=> [auth] library/openjdk:pull token for registry-1.docker.io

=> [internal] load build context

=> > transferring context: 27.70MB

=> [1/2] FROM docker.io/library/openjdk:17@sha256:528707081fdb9562eb819128a9f85ae7fe000e2fbaeaf9f87662e7b3f38cb7d8

=> CACHED [2/2] ADD target/sentiment-analysis-api-0.0.1-SNAPSHOT.jar /

=> exporting to image

=> => exporting layers

=> > writing image sha256:774e6643dbf5935821a357a9d7c2ba43473926bc07d294b0339a69d0458bd92f

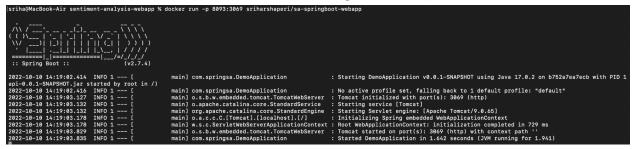
=> > naming to docker.io/sriharshaperi/sa-springboot-webapp

sriha@MacBook-Air sentiment-analysis-webapp %
```

### **Docker Push Spring Boot App**

```
[sriha@MacBook-Air sentiment-analysis-webapp % pwd
/Users/sriha/Documents/workspace-spring-tool-suite-4-4.16.0.RELEASE/sentiment-analysis-webapp
[sriha@MacBook-Air sentiment-analysis-webapp % docker push sriharshaperi/sa-springboot-webapp
Using default tag: latest
The push refers to repository [docker.io/sriharshaperi/sa-springboot-webapp]
e9189e187390: Mounted from sriharshaperi/web-app
e017d39c755a: Layer already exists
03ee828ef0e4: Layer already exists
b0d4c4485e7e: Layer already exists
latest: digest: sha256:461bee1d9eb24a0431686b1b3adb179fd5154f13499f21767bee701aa8c4fe10 size: 1166
sriha@MacBook-Air sentiment-analysis-webapp %
```

### **Docker Run Spring Boot App**



# Spring Boot App running on Port 8097 on docker image

