#### **Assignment 4**

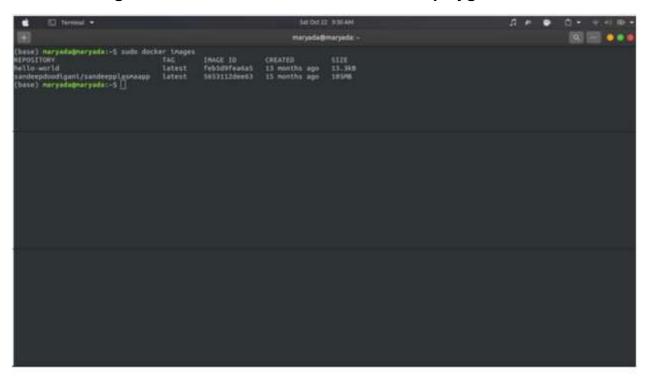
#### **Kubernetes / Docker**

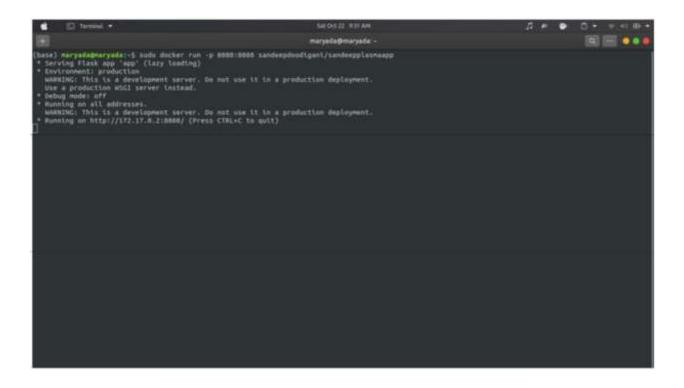
### **Inventory Management Application:**

**Team ID: PNT2022TMID05629** 

Name: Nalayathiran

1.Pull an Image from docker hub and run it in docker playground.









## 2.Create a docker file for the jobportal application and deploy it in Docker desktop application.

#### Dockerfile:

FROM python:3.6

WORKDIR /app

ADD . /app

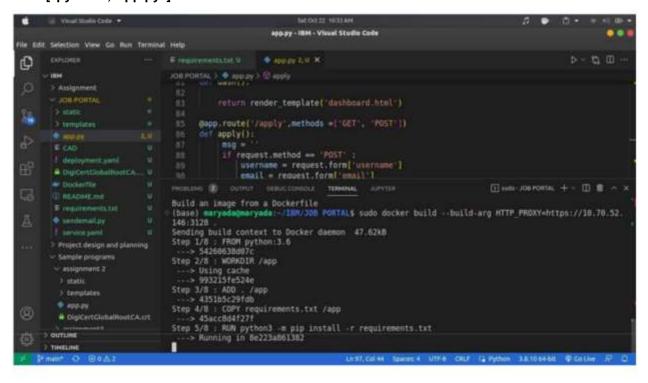
COPY requirements.txt /app

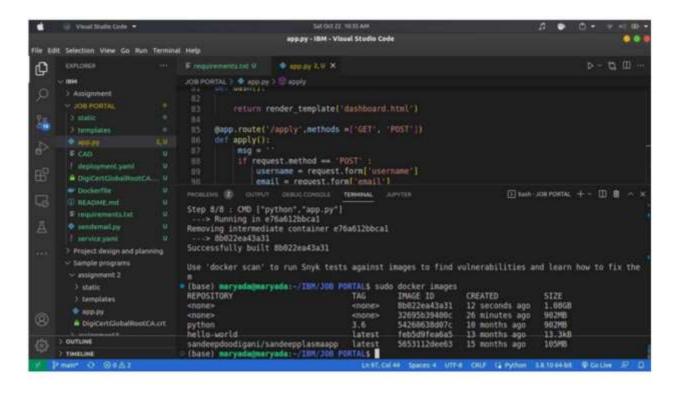
RUN python3 -m pip install -r requirements.txt

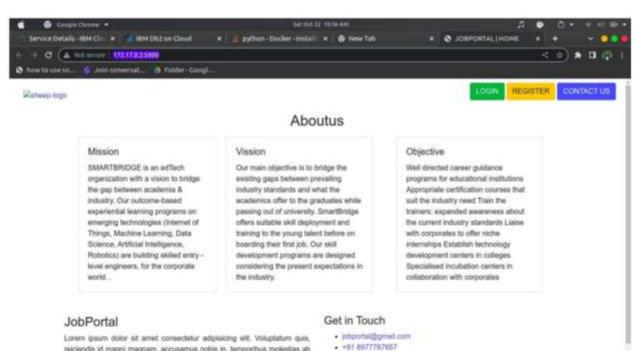
RUN python3 -m pip install ibm\_db

**EXPOSE 5000** 

CMD ["python","app.py"]







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app.py - IBM - Visual Studio Code
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File Edit Selection View Go Run Terminal Hely
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 Ф
                                                                            JOH PORTAL > • app.py > © apply
                                                                                                  return render template('dashboard.html')
                                                                                         (app.route('/apply'.methods =['GET', 'PGST'])
def apply():
                                                                                                      msg =
                                                                                                         username = request.form["username"]
email = request.form["mail"]
                W Dockerfile

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(Dase) maryada@maryada:-/ISN/JOS PORTALS *C

(Dase) maryada@maryada:-/ISN/JOS PORTALS sudo docker run -p 8680:8980 8b022ea43a31

(Dase) maryada@maryada:-/ISN/JOS PORTALS sudo docker run -p 8680:8980 8b022ea43a31
                                                                                                                                                                                                                                               D sets -Jos rontal + - □ $ ^ ×
                                                                            * Environment; production
WARNING: This is a development server. Do not use it in a production deployment.
Use a production WSGI server instead.

* Debug mode: off
                                                                            * Debug mode: off

* Running on all addresses.

MARNING: This is a development server. Do not use it in a production deployment.

* Running on http://172.17.0.2:3000/ (Press CTRL+C to quit)

172.17.0.1 - [22/Oct/2022 05:06:38] "GET / HTTP/1.1" 200 -

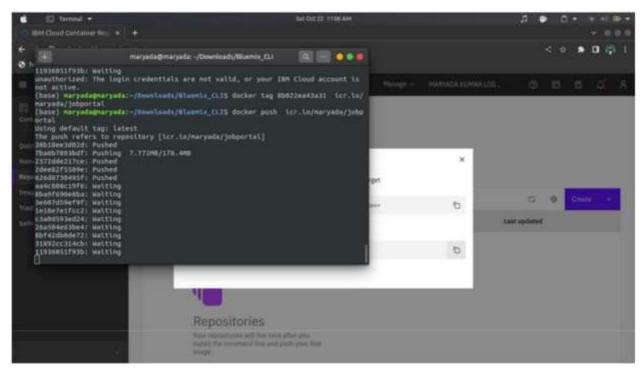
172.17.0.1 - [22/Oct/2022 05:06:38] "GET / HTTP/1.1" 404 -

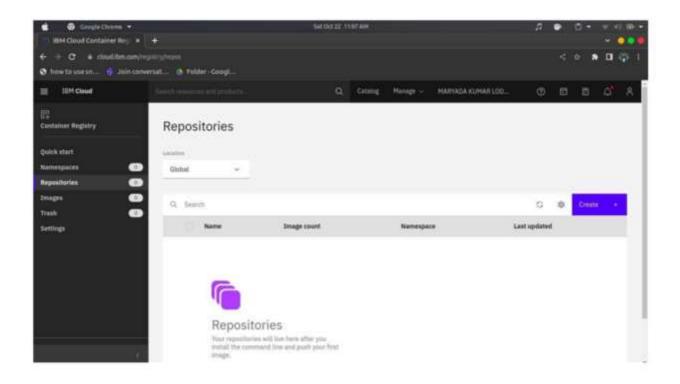
172.17.0.1 - [22/Oct/2022 05:06:38] "GET /static/img/smartinternz.png HTTP/1.1" 404 -

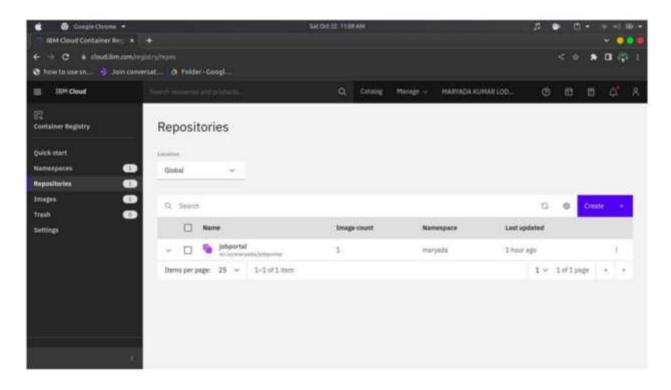
172.17.0.1 - [22/Oct/2022 05:06:38] "GET /assets/img/favicon-32x32.png HTTP/1.1" 404 -

172.17.0.1 - [22/Oct/2022 05:06:38] "GET /assets/img/favicon-32x32.png HTTP/1.1" 404
                    3 templates
            OUTLINE
```

# 3.Create a IBM container registry and deploy helloworld app or jobportalapp.







## 4.Create a Kubernetes cluster in IBM cloud and deploy helloworld image or jobportal image and also expose the same app to run in nodeport.

