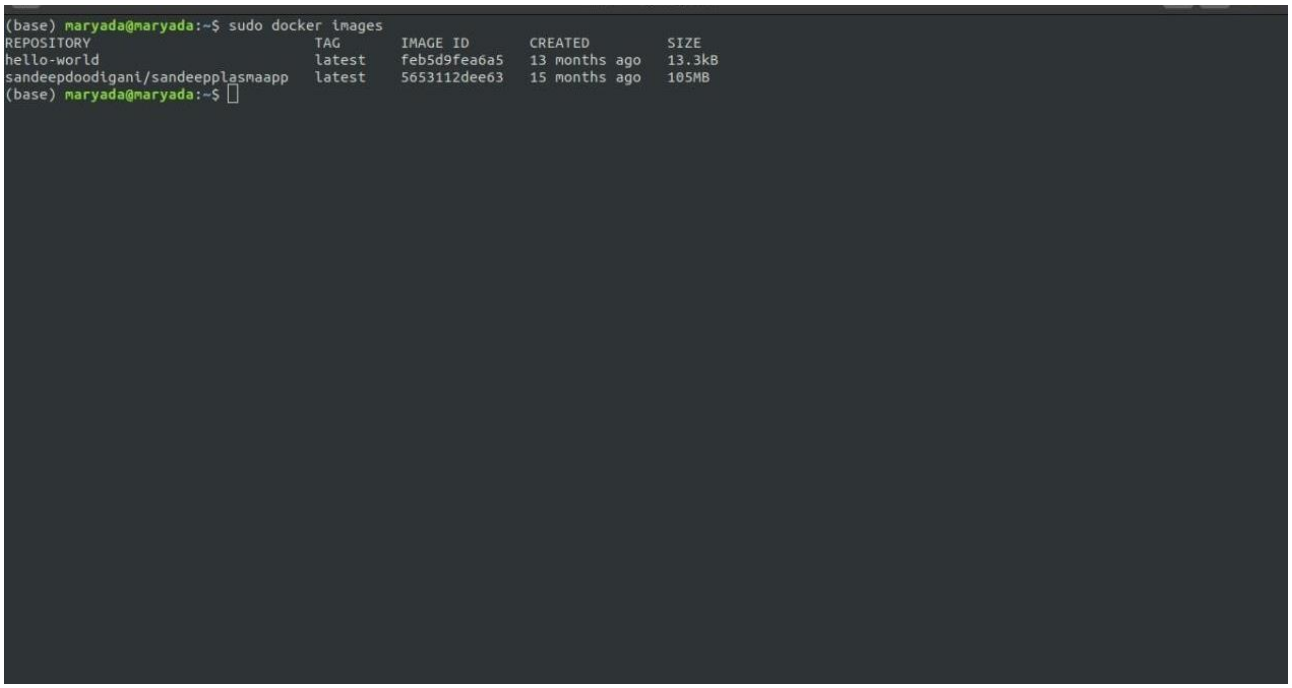
Assignment-4

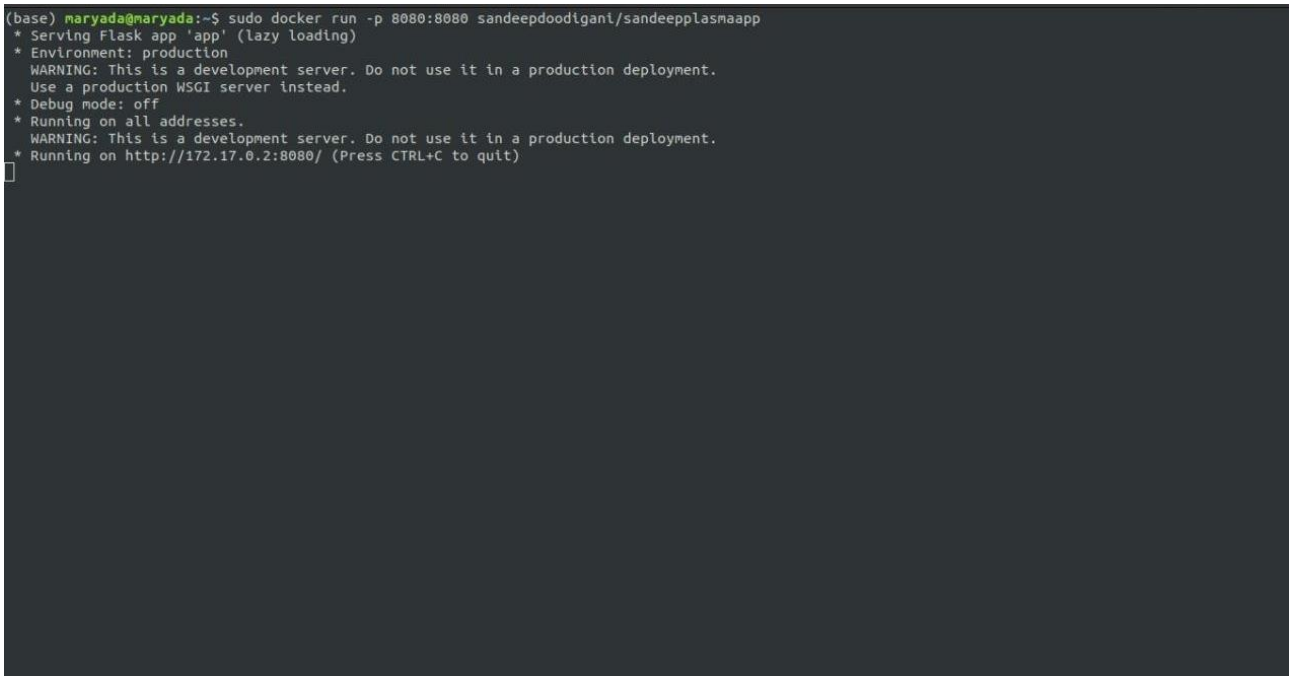
PLASMA DONOR APPLICATION **TEAM ID:PNT2022TMID40310**

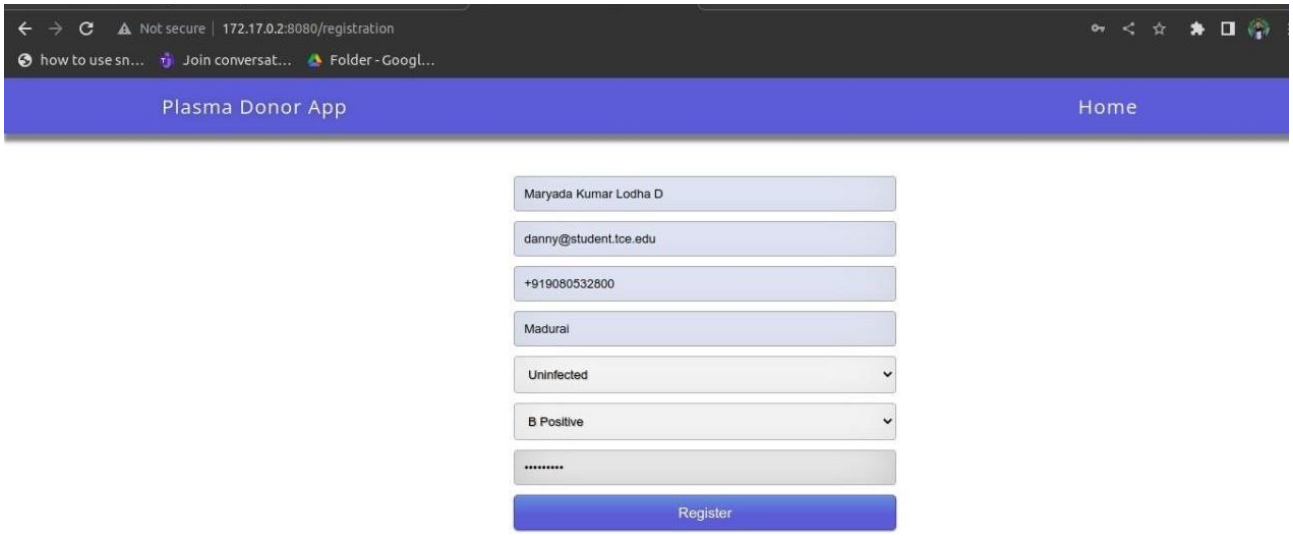
Questions:

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
3. Create a docker file for the jobportal application and deploy it in Docker desktop application.
4. Create a Kubernetes cluster in IBM cloud and deploy hello world image or job portal imageand also expose the same app to run in node port.

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

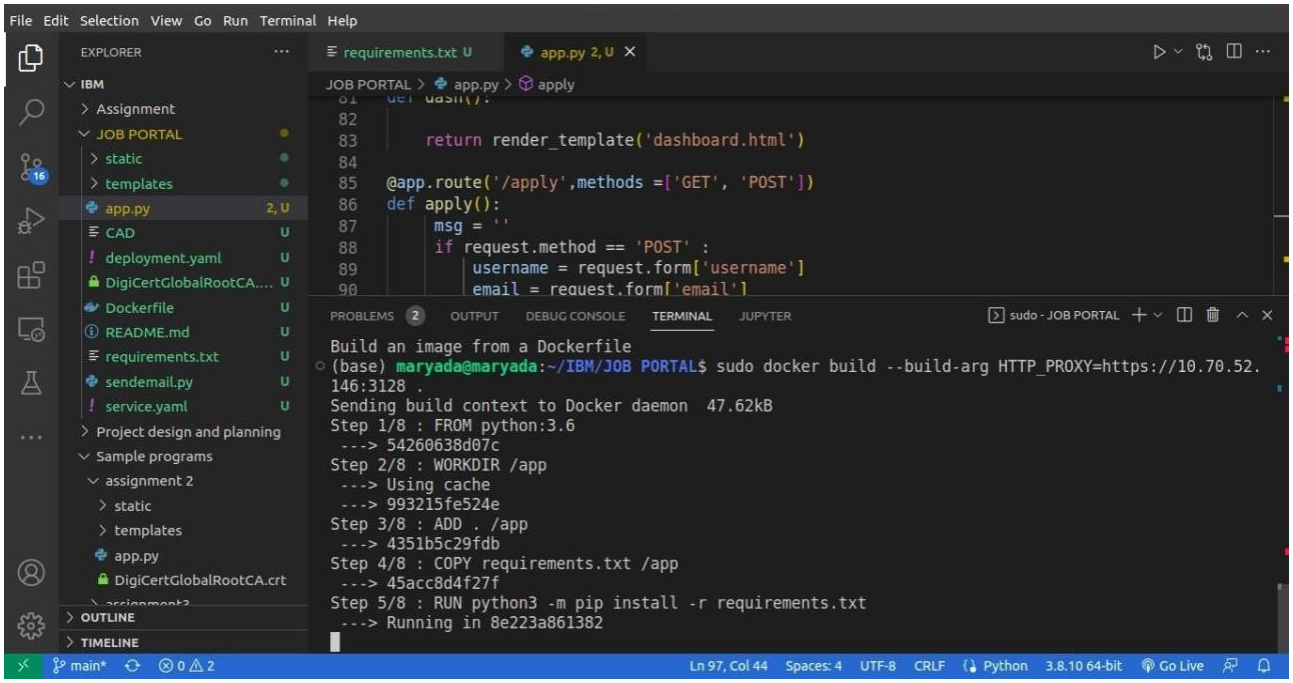


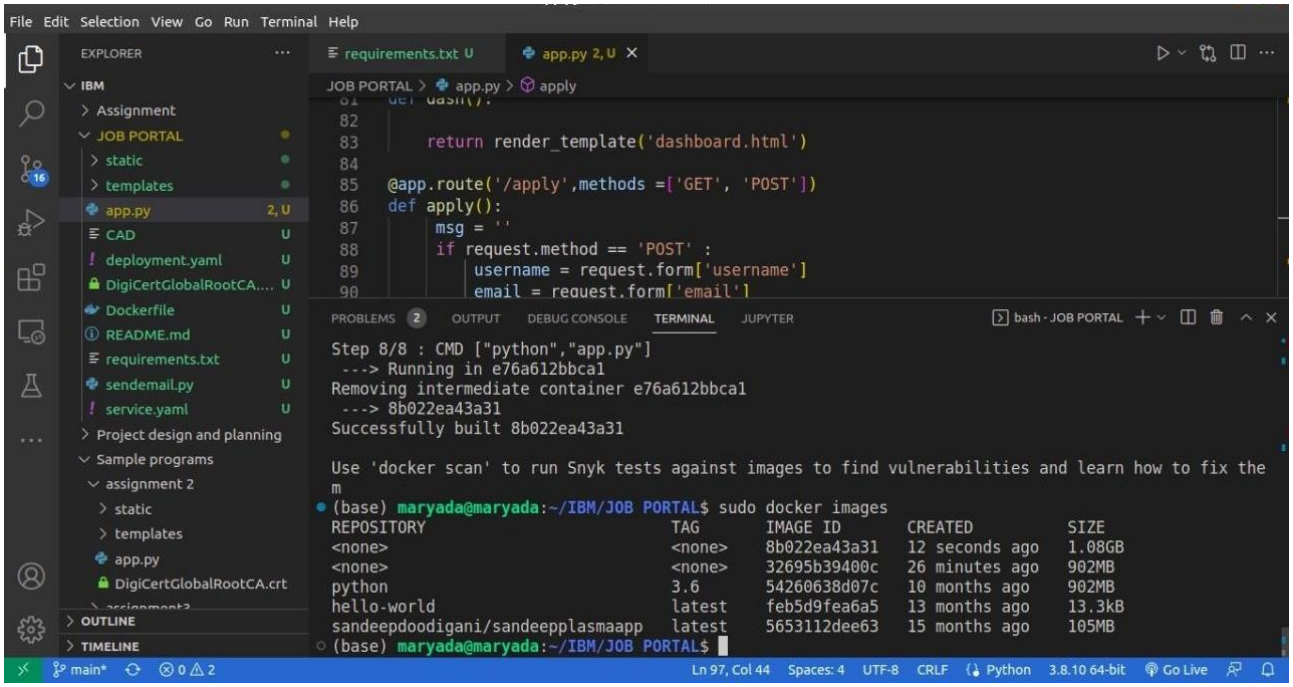




2.Create a docker file for the jobportal application and deploy it in Docker desktop application.

Dockerfile:
FROM
python:3.6WORK
DIR /appADD.
/app
COPYrequirements.txt/app
RUN python3 -m pip install -r
requirements.txtRUNpython3
–m pip install libm-db
EXPOSE5000
CMD["python","app.py"]


File Edit Selection View Go Run Terminal Help
EXPLORER
requirements.txt U
app.py 2, U
JOB PORTAL > app.py > apply
return render_template('dashboard.html')
@app.route('/apply',methods =['GET', 'POST'])
def apply():
msg = ''
if request.method == 'POST' :
username = request.form['username']
email = request.form['email']
PROBLEMS 2 OUTPUT DEBUG CONSOLE TERMINAL JUPYTER
sudo - JOB PORTAL
Build an image from a Dockerfile
(base) maryada@maryada:~/IBM/JOB PORTAL$ sudo docker build --build-arg HTTP_PROXY=https://10.70.52.146:3128 .
Sending build context to Docker daemon 47.62kB
Step 1/8 : FROM python:3.6
---> 54260638d07c
Step 2/8 : WORKDIR /app
---> Using cache
---> 993215fe524e
Step 3/8 : ADD . /app
---> 4351b5c29fdb
Step 4/8 : COPY requirements.txt /app
---> 45acc8d4f27f
Step 5/8 : RUN python3 -m pip install -r requirements.txt
---> Running in 8e223a861382
main* 0 2 Ln 97, Col 44 Spaces: 4 UTF-8 CRLF Python 3.8.10 64-bit Go Live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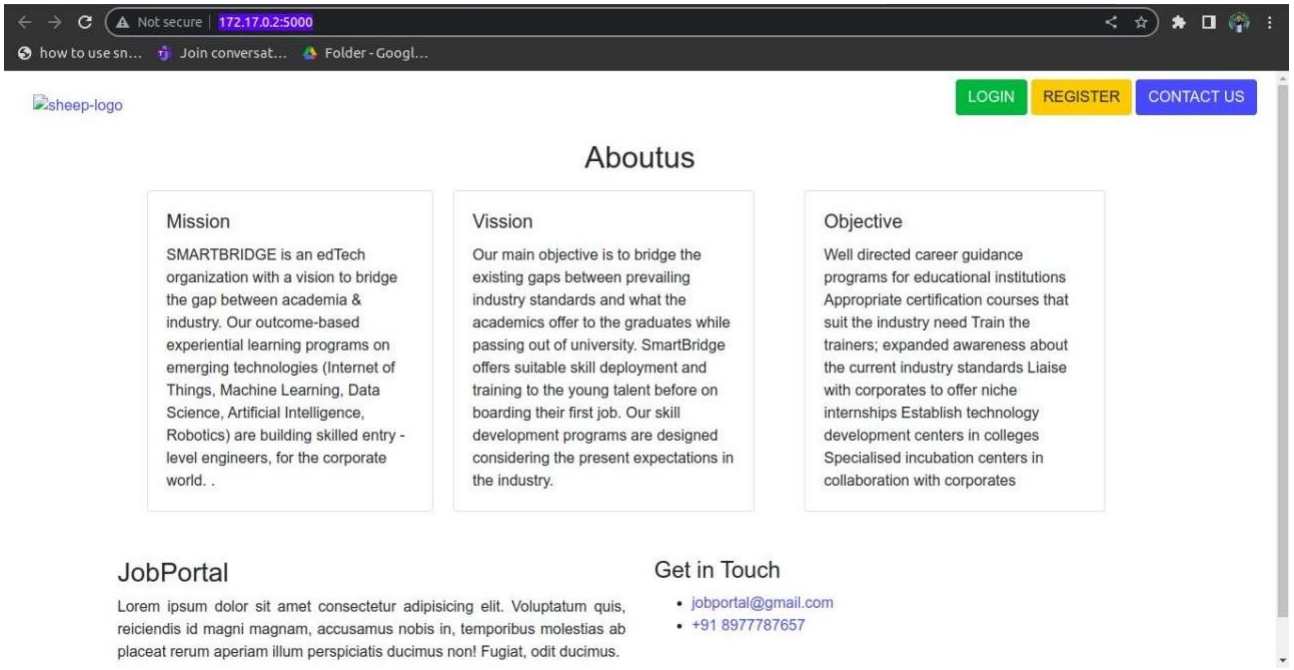
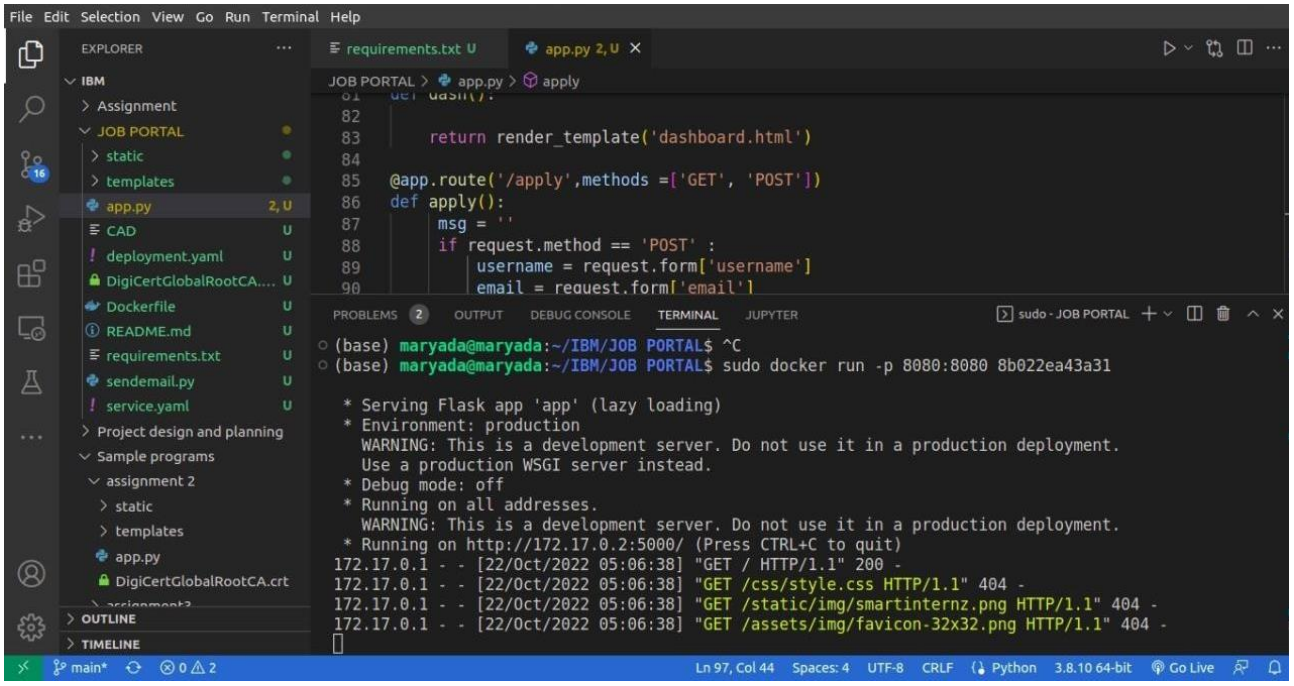
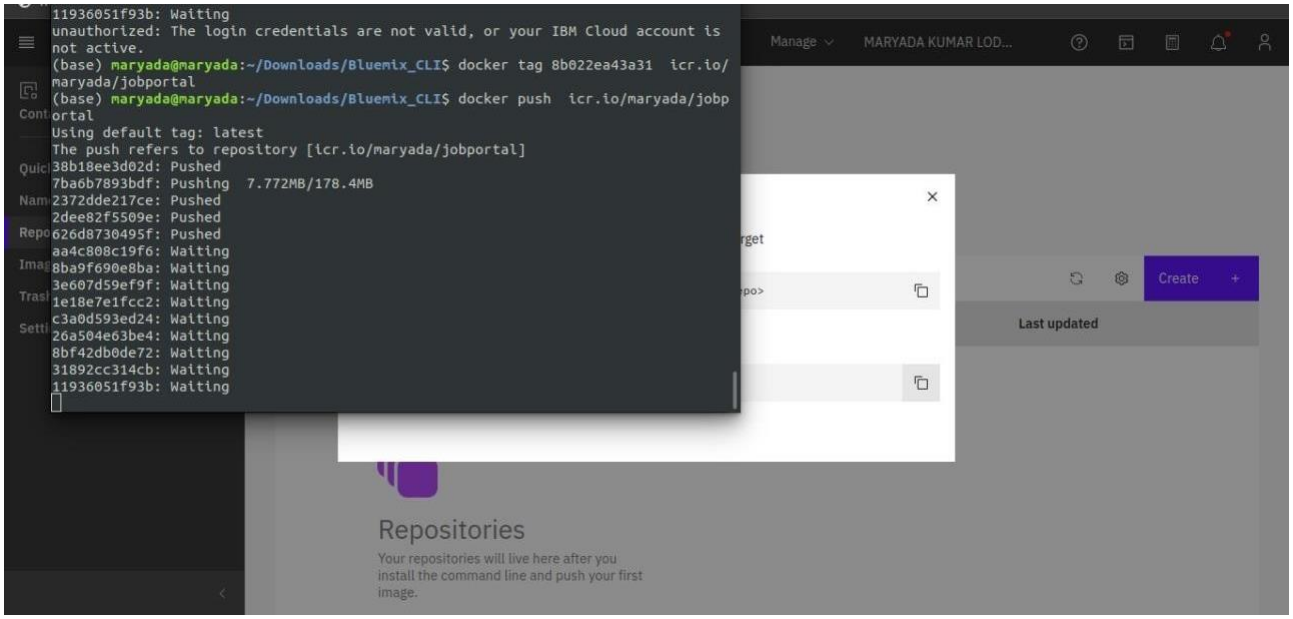
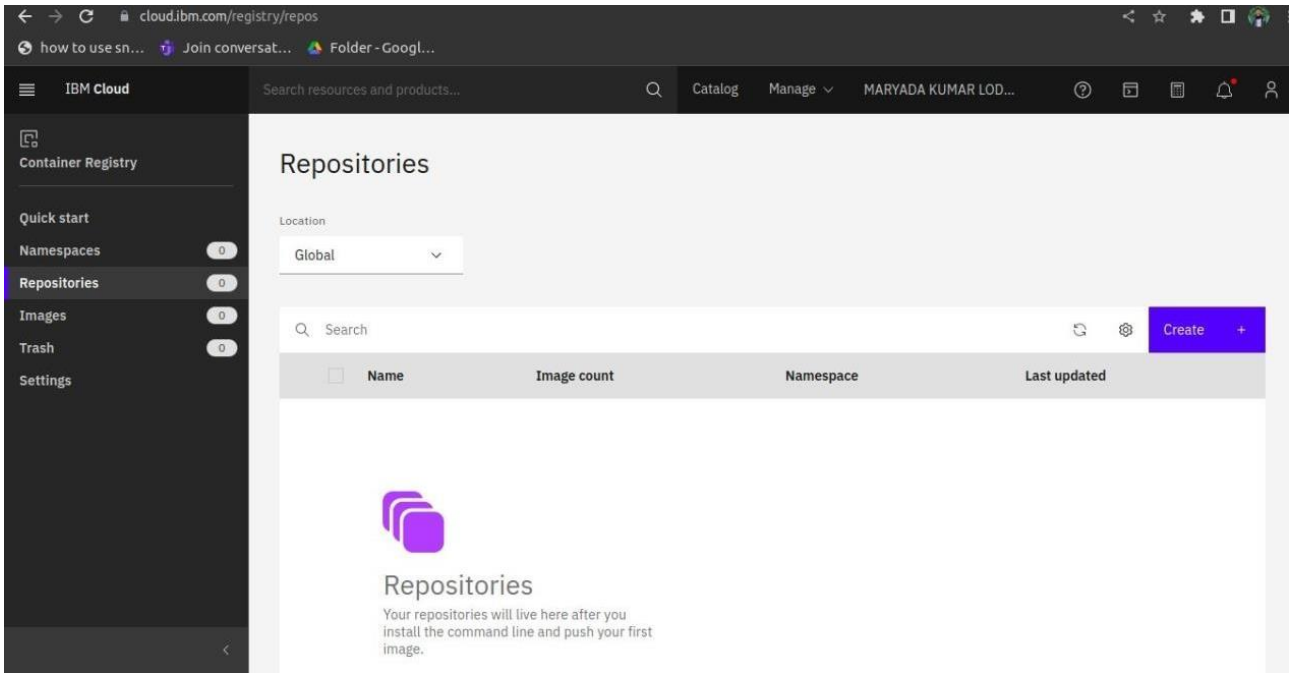
PROBLEMS 2 OUTPUT DEBUG CONSOLE TERMINAL JUPYTER
bash - JOB PORTAL
Step 8/8 : CMD ["python","app.py"]
---> Running in e76a612bbca1
Removing intermediate container e76a612bbca1
---> 8b022ea43a31
Successfully built 8b022ea43a31
Use 'docker scan' to run Snyk tests against images to find vulnerabilities and learn how to fix the m
(base) maryada@maryada:~/IBM/JOB PORTAL$ sudo docker images
REPOSITORY TAG IMAGE ID CREATED SIZE
<none> <none> 8b022ea43a31 12 seconds ago 1.08GB
<none> <none> 32695b39400c 26 minutes ago 902MB
python 3.6 54260638d07c 10 months ago 902MB
hello-world latest feb5d9fea6a5 13 months ago 13.3kB
sandeepdoodigani/sandeepplasmaapp latest 5653112dee63 15 months ago 105MB
(base) maryada@maryada:~/IBM/JOB PORTAL$
main* 0 2 Ln 97, Col 44 Spaces: 4 UTF-8 CRLF Python 3.8.10 64-bit Go Live

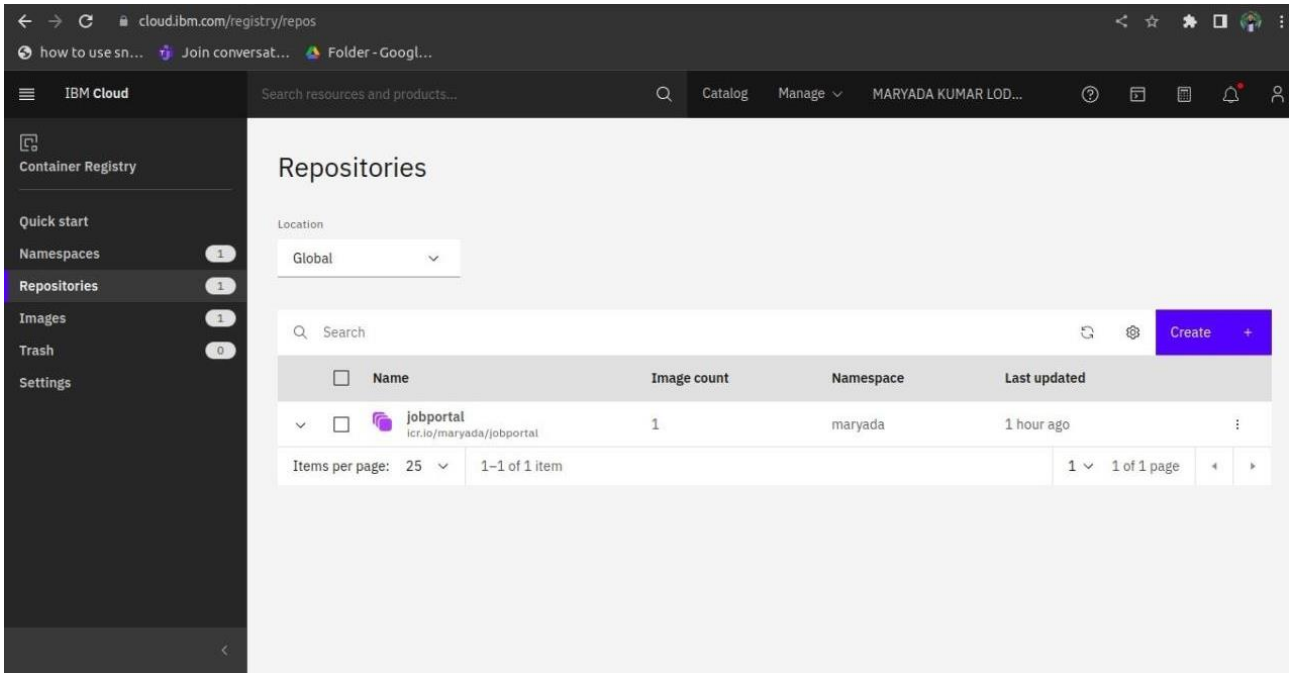

Not secure 172.17.0.2:5000
how to use sn... Join conversat... Folder - Googl...
sheep-logo
LOGIN
REGISTER
CONTACT US
Aboutus
Mission
SMARTBRIDGE is an edTech organization with a vision to bridge the gap between academia & industry. Our outcome-based experiential learning programs on emerging technologies (Internet of Things, Machine Learning, Data Science, Artificial Intelligence, Robotics) are building skilled entry - level engineers, for the corporate world. .
Vission
Our main objective is to bridge the existing gaps between prevailing industry standards and what the academics offer to the graduates while passing out of university. SmartBridge offers suitable skill deployment and training to the young talent before on boarding their first job. Our skill development programs are designed considering the present expectations in the industry.
Objective
Well directed career guidance programs for educational institutions Appropriate certification courses that suit the industry need Train the trainers; expanded awareness about the current industry standards Liaise with corporates to offer niche internships Establish technology development centers in colleges Specialised incubation centers in collaboration with corporates
JobPortal
Lorem ipsum dolor sit amet consectetur adipisicing elit. Voluptatum quis, reiciendis id magni magnam, accusamus nobis in, temporibus molestias ab placeat rerum aperiam illum perspiciatis ducimus non! Fugiat, odit ducimus.
Get in Touch
jobportal@gmail.com
+91 8977787657


File Edit Selection View Go Run Terminal Help
EXPLORER
IBM
Assignment
JOB PORTAL
static
templates
app.py 2, U
CAD U
deployment.yaml U
DigiCertGlobalRootCA.... U
Dockerfile U
README.md U
requirements.txt U
sendemail.py U
service.yaml U
Project design and planning
Sample programs
assignment 2
static
templates
app.py
DigiCertGlobalRootCA.crt
OUTLINE
TIMELINE
requirements.txt U
app.py 2, U
JOB PORTAL > app.py > apply
return render_template('dashboard.html')
@app.route('/apply',methods =['GET', 'POST'])
def apply():
msg = ''
if request.method == 'POST' :
username = request.form['username']
email = request.form['email']
PROBLEMS 2 OUTPUT DEBUG CONSOLE TERMINAL JUPYTER
sudo - JOB PORTAL
(base) maryada@maryada:~/IBM/JOB PORTAL$ ^C
(base) maryada@maryada:~/IBM/JOB PORTAL$ sudo docker run -p 8080:8080 8b022ea43a31
* Serving Flask app 'app' (lazy loading)
* 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
* Running on all addresses.
WARNING: This is a development server. Do not use it in a production deployment.
* Running on http://172.17.0.2:5000/ (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 /css/style.css 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 -
main* 0 2
Ln 97, Col 44 Spaces: 4 UTF-8 CRLF Python 3.8.10 64-bit Go Live

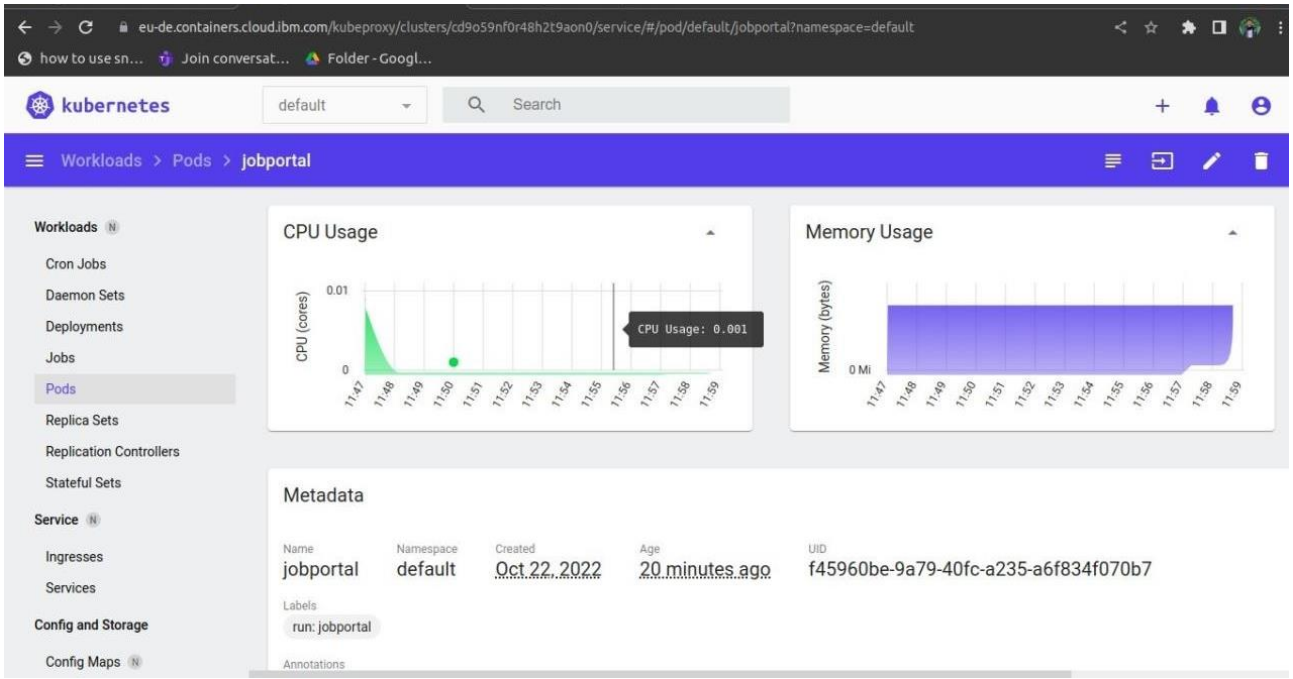
3.Create a IBM container registry and deploy hello world app or job portal app.

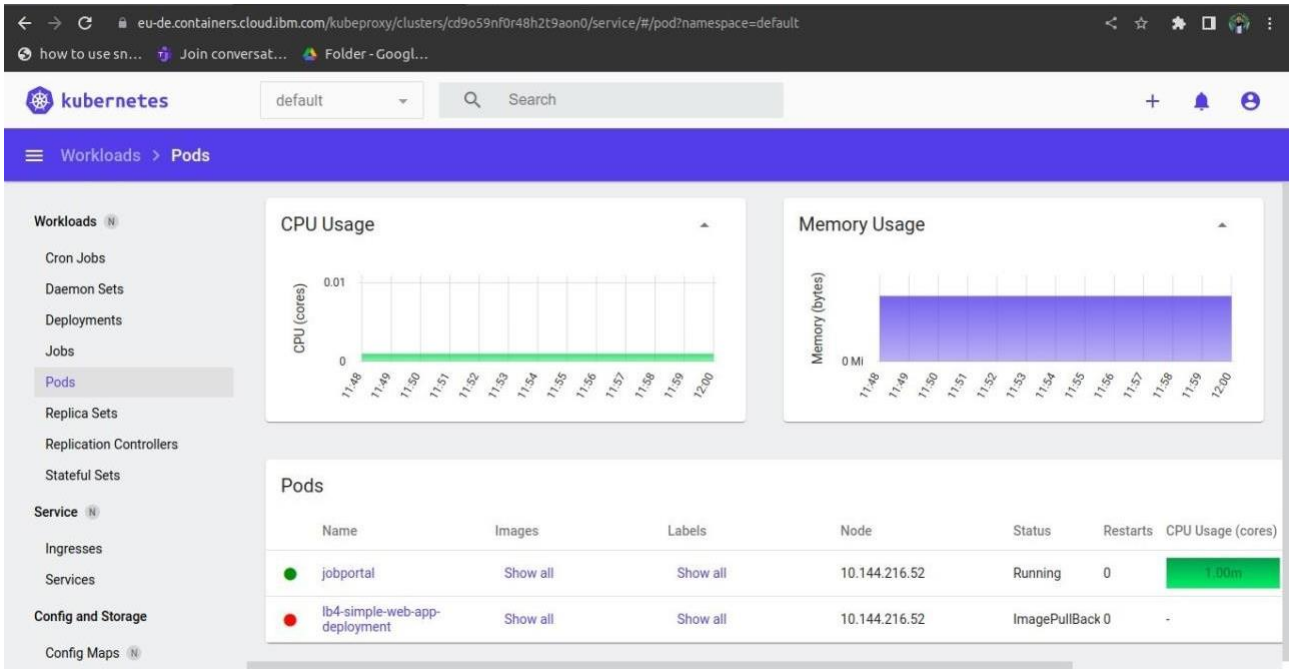






4.Create a Kubernetes cluster in IBM cloud and deploy hello world image or job portal imageand also expose the same app to run in node port.




eu-de.containers.cloud.ibm.com/kubeproxy/clusters/cd9o59nf0r48h2t9aon0/service/#/pod?namespace=default
how to use sn...
Join conversat...
Folder - Googl...
kubernetes
default
Search
Workloads > Pods
Workloads
Cron Jobs
Daemon Sets
Deployments
Jobs
Pods
Replica Sets
Replication Controllers
Stateful Sets
Service
Ingresses
Services
Config and Storage
Config Maps
CPU Usage
CPU (cores)
0.01
0
11:48 11:49 11:50 11:51 11:52 11:53 11:54 11:55 11:56 11:57 11:58 11:59 12:00
Memory Usage
Memory (bytes)
0 Mi
11:48 11:49 11:50 11:51 11:52 11:53 11:54 11:55 11:56 11:57 11:58 11:59 12:00
Pods
Name
Images
Labels
Node
Status
Restarts
CPU Usage (cores)
jobportal
Show all
Show all
10.144.216.52
Running
0
1.00m
lb4-simple-web-app-deployment
Show all
Show all
10.144.216.52
ImagePullBack
0
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