Assignment 4

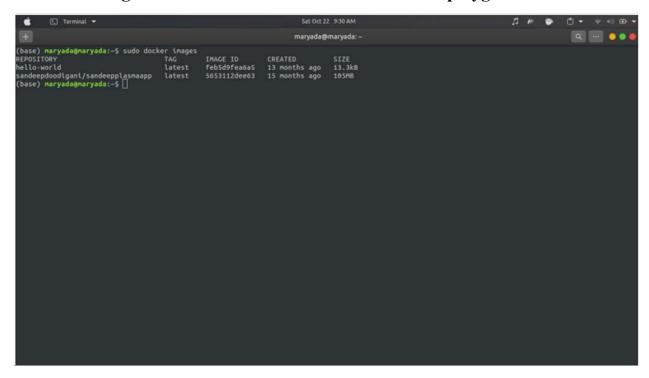
Kubernetes / Docker

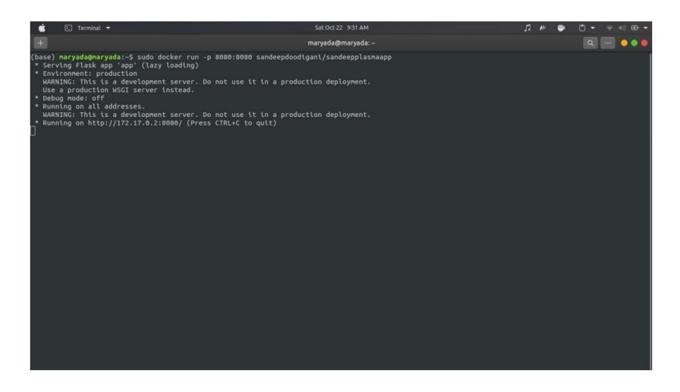
Plasma doner Application:

Team ID: PNT2022TMID05643

Name: Kishore V V

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

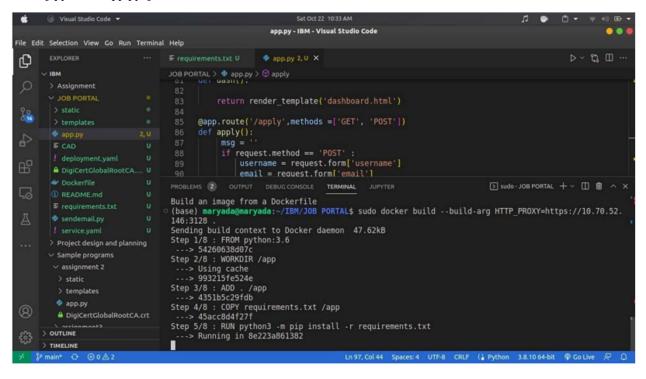
COPY requirements.txt /app

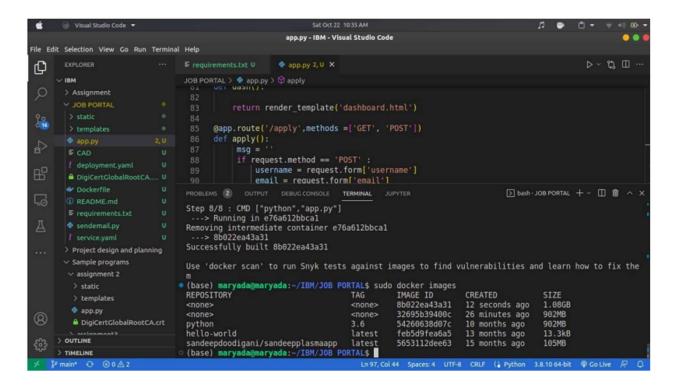
RUN python3 -m pip install -r requirements.txt

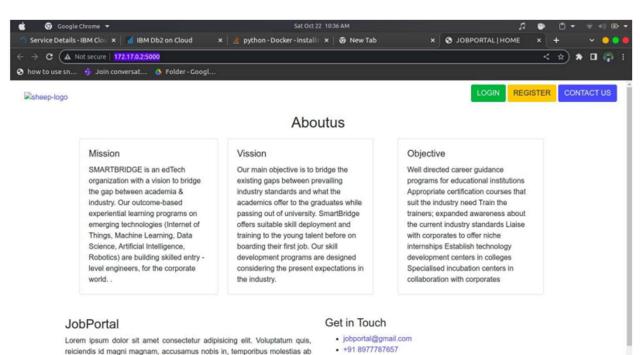
RUN python3 -m pip install ibm_db

EXPOSE 5000

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







placeat rerum aperiam illum perspiciatis ducimus non! Fugiat, odit ducimus.

```
    ∀isual Studio Code ▼

                                                                                                          Sat Oct 22 10:36 AM
                                                                                               app.py - IBM - Visual Studio Code
                                                                                                                                                                                                                                 . .
                                                                                                                                                                                                                   D ~ th □ ...
Ф
        ∨ IBM
                                                         JOB PORTAL > app.py > apply
                                                                          return render_template('dashboard.html')
                                                                  @app.route('/apply',methods =['GET', 'POST'])

    ♣ app.py
    2, U
    ■ CAD
    U
    ! deployment.yaml
    U

                                                                   def apply():
                                                                            msq =
                                                                            if request.method == 'POST' :
                                                                              username = request.form['username']
email = request.form['email']
           Dockerfile
                                                       PROBLEMS 2 OUTPUT DEBUG CONSOLE TERMINAL JUPYTER
                                                                                                                                                                                   Sudo - JOB PORTAL + V III 1 A X
           © README.md U (base) maryada@maryada:~/IBM/JOB PORTAL$ ^C (base) maryada@maryada:~/IBM/JOB PORTAL$ $\frac{1}{2}$ (base) maryada@maryada:~/IBM/JOB PORTAL$ sudo docker run -p 8080:8080 8b022ea43a31
                                                          * Serving Flask app 'app' (lazy loading)
* Environment: production
          > Project design and planning
                                                          WARNING: This is a development server. Do not use it in a production deployment.

∨ Sample programs

                                                          Use a production WSGI server instead.
* Debug mode: off

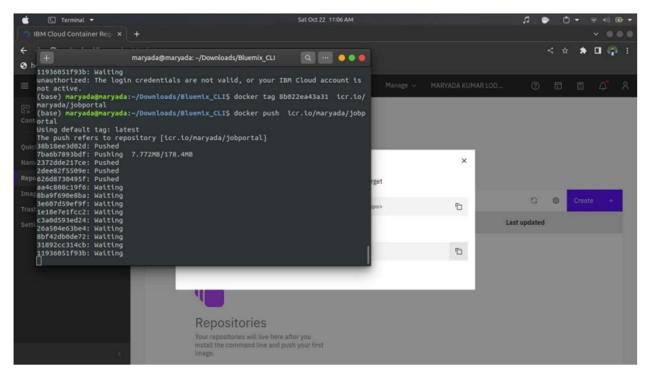
√ assignment 2

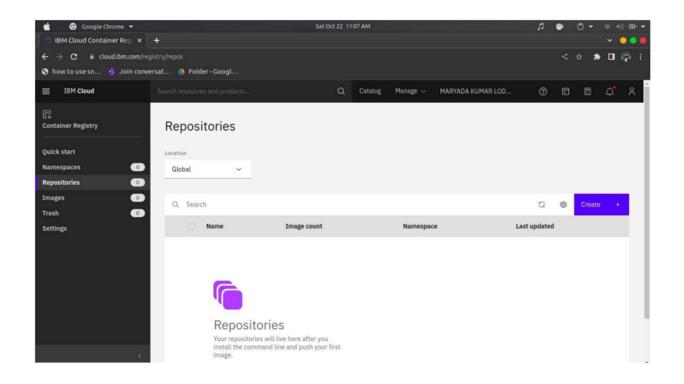
                                                         * Debug mode: off

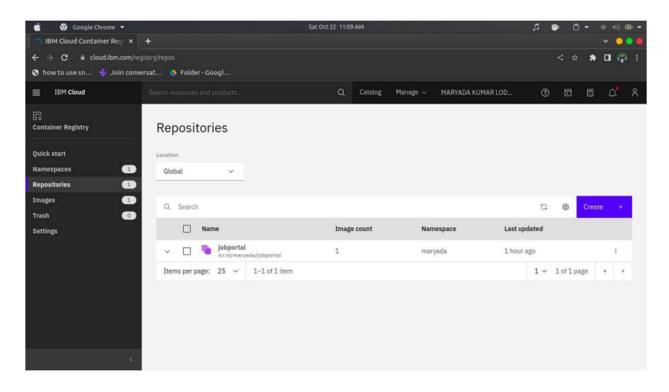
* Running on all addresses.
WARNING: This is a development server. Do not use it in a production deployment.

* Running on http://172.17.0.2:5000/ (Press CTRL+C to quit)
172.17.0.1 - - [22/0ct/2022 05:06:38] "GET / HTTP/1.1" 200 -
172.17.0.1 - - [22/0ct/2022 05:06:38] "GET /css/style.css HTTP/1.1" 404 -
172.17.0.1 - - [22/0ct/2022 05:06:38] "GET /static/img/smartinternz.png HTTP/1.1" 404 -
172.17.0.1 - - [22/0ct/2022 05:06:38] "GET /assets/img/favicon-32x32.png HTTP/1.1" 404
              > templates
              ■ DigiCertGlobalRootCA.crt
        > OUTLINE
        > TIMELINE
```

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.

