## **ASSIGNMENT-4**

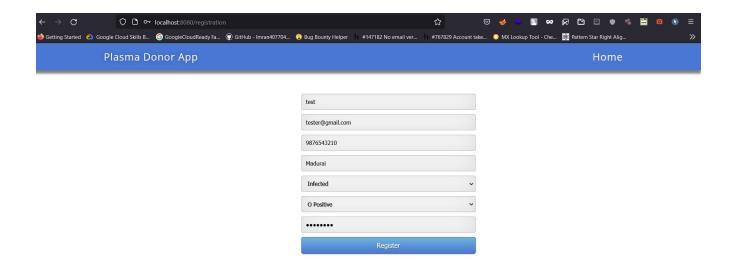
Date	21 October 2022
Team ID	PNT2022TMID07290
Student Name	Raajesh.G
Roll number	711519BCS042

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

Pulled raajesh/plasmadonation and running in docker:

```
C:\Users\acer>docker pull raajesh/plasmadonation:first-image
first-image: Pulling from raajesh/plasmadonation
Digest: sha256:c9f885b3416945f2e612971e4410c75d22b4f68ef5b22c86a9c6aa4e83874aae
Status: Image is up to date for raajesh/plasmadonation:first-image
docker.io/raajesh/plasmadonation:first-image
C:\Users\acer>
```

```
Select Command Prompt - docker run -p 8080:8080 raajesh/plasmadonation:first-image
C:\Users\acer>docker images
REPOSITORY
                        TAG
                                       IMAGE ID
                                                     CREATED
                                                                     SIZE
plasmadonation
                        latest
                                      8ffd4a2c3b3a 19 hours ago
                                                                     1.24GB
raajesh/plasmadonation first-image 8ffd4a2c3b3a 19 hours ago
                                                                     1.24GB
                                      cb90f98fd791
                                                                     28.8MB
docker/getting-started latest
                                                      7 months ago
C:\Users\acer>docker run -p 8080:8080 raajesh/plasmadonation:first-image
 * 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://172.17.0.2:8080/ (Press CTRL+C to quit)
```



## 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

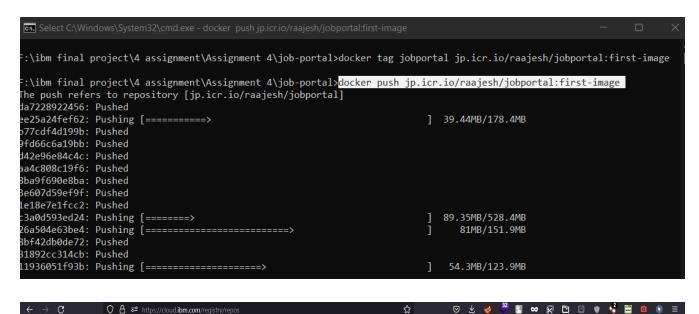
RUN python3 -m pip install -r requirements.txt

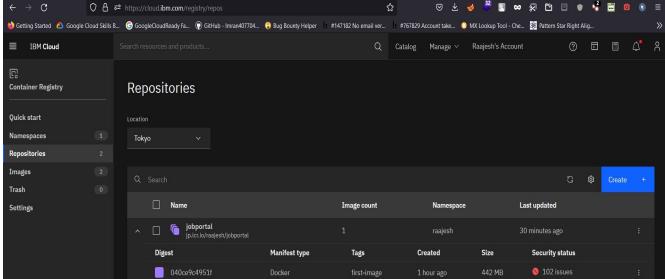
RUN python3 -m pip install ibm db

EXPOSE 5000

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

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.

F:\ibm final project\4 assignment\Assignment 4\job-portal>kubectl expose deployment jobportal --type=NodePort --name=jot portal service/jobportal exposed