

## ASSIGNMENT - 4

|              |                  |
|--------------|------------------|
| Date         | 19 November 2022 |
| Team ID      | PNT2022TMID07290 |
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| Roll Number  | 711519BCS056     |

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

Pulled srikanan/plasma and running in docker:

```
C:\Users\Srikanan>docker images
REPOSITORY    TAG       IMAGE ID       CREATED        SIZE
job           latest    1de6264e05a7   43 minutes ago 1.08GB
plasma        latest    d6d564d3a89b   About an hour ago 1.24GB

C:\Users\Srikanan>

C:\Users\Srikanan>docker run -p 8080:8080 plasma
Microsoft Windows [Version 10.0.22621.674]
(c) Microsoft Corporation. All rights reserved.

C:\Users\Srikanan>docker run -p 8080:8080 plasma
* 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://172.17.0.3:8080/ (Press CTRL+C to quit)
172.17.0.1 - - [19/Nov/2022 15:53:37] "GET / HTTP/1.1" 200 -
172.17.0.1 - - [19/Nov/2022 15:53:37] "GET /static/style1.css HTTP/1.1" 200 -
172.17.0.1 - - [19/Nov/2022 15:53:38] "GET /favicon.ico HTTP/1.1" 404 -
```

The screenshot shows a web browser window with the address bar displaying 'localhost:8080/registration'. The page has a blue header with 'Plasma Donor App' on the left and 'Home' on the right. The main content area contains a registration form with the following fields: a text input for 'Srikan', an email input for 'Srikarann@gmail.com', a text input for '7010333333', a text input for 'Neyveli', a dropdown menu for 'Infected', a dropdown menu for 'O Positive', a password input field with masked characters, and a blue 'Register' button at the bottom.

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

Dockerfile:

```
FROM python:3.6
```

```
WORKDIR /app
```

```
ADD . /app
```

```
COPY requirements.txt /app
```

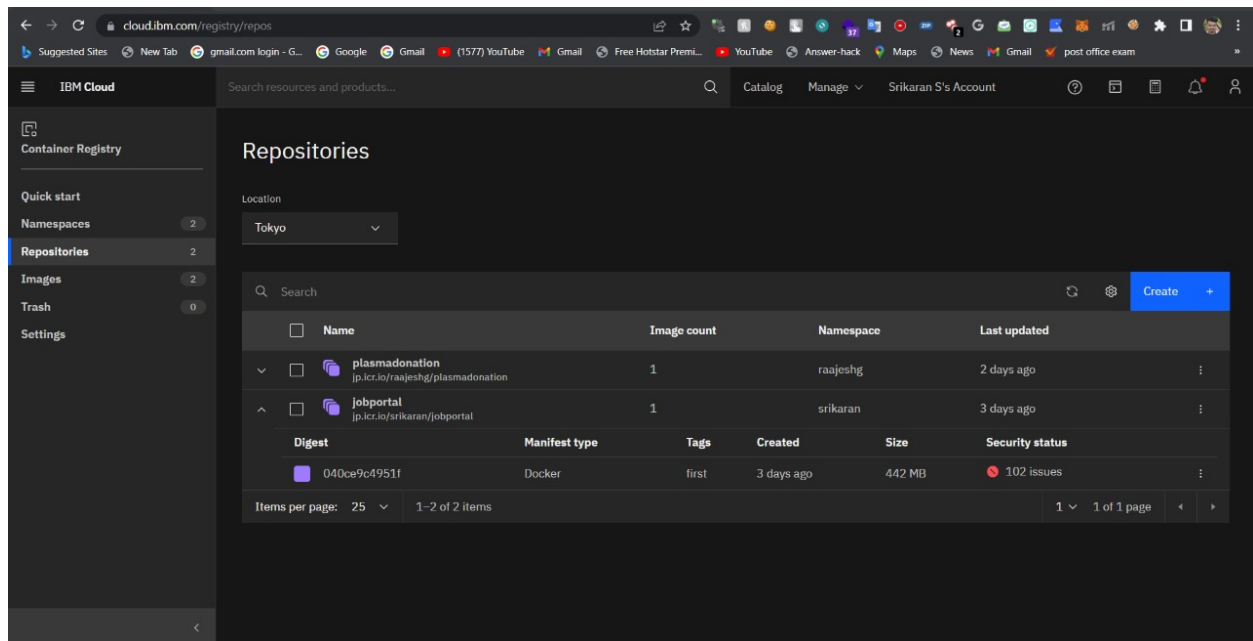
```
RUN python3 -m pip install -r requirements.txt
```

```
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.



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