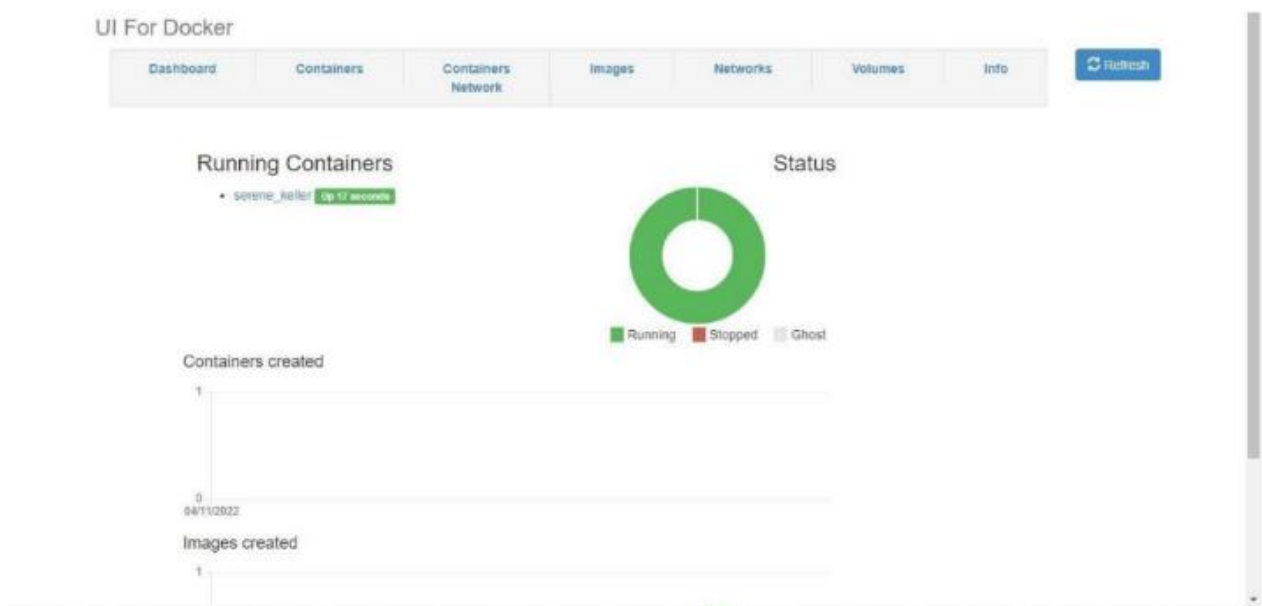


# ASSIGNMENT -4

Question 1: Pull an image from docker hub and run it on docker playground. docker pull registry

```
:\\Users\\HP\\OneDrive\\Desktop\\helloworld>docker pull registry
sing default tag: latest
atest: Pulling from library/registry
a7dd9ec2225: Pull complete
41ae7ad2b39: Pull complete
ed0fc8a6161: Pull complete
1df229223d2: Pull complete
26897ccab21: Pull complete
igest: sha256:ce14a6258f37702ff3cd92232a6f5b81ace542d9f1631966999e9f7c1ee6ddba
tatus: Downloaded newer image for registry:latest
ocker.io/library/registry:latest

:\\Users\\HP\\OneDrive\\Desktop\\helloworld>
```



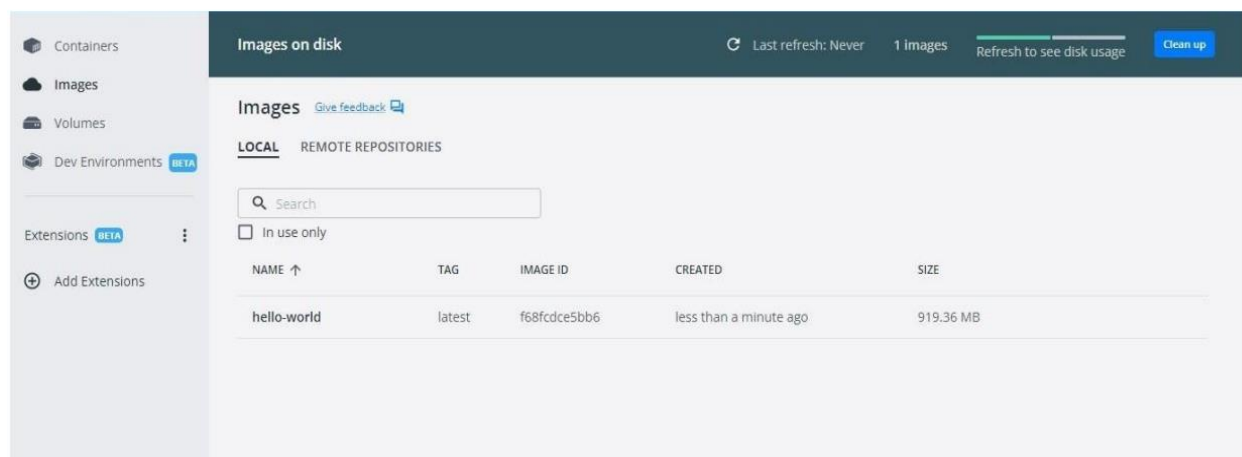
2. Create a docker file for the job portal app or hello world app and deploy it in docker desktop app.



The screenshot shows the Visual Studio Code interface with a Dockerfile open in the editor. The Dockerfile contains the following instructions:

```
1 FROM python:3.10.6
2 COPY requirements.txt ./app/requirements.txt
3 WORKDIR /app
4 RUN pip install -r requirements.txt
5 COPY . .
6 EXPOSE 5000
7 CMD ["python", "-u", "/app.py"]
8
```

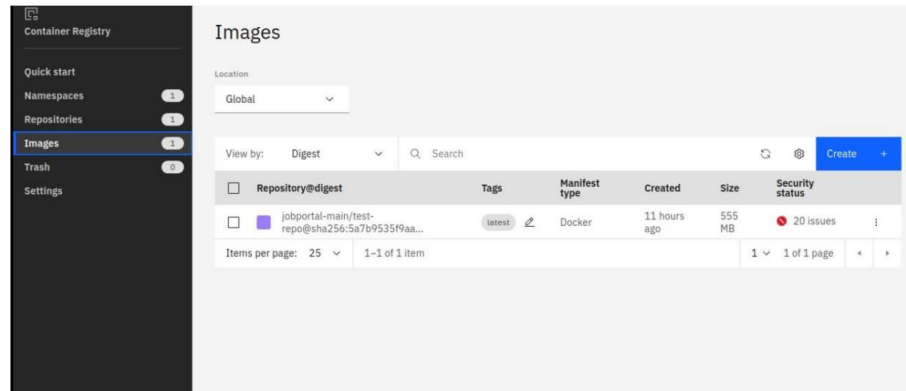
The Explorer sidebar on the left shows the file structure of the 'Job Portal Application' project, including files like 'requirements.txt', 'Dockerfile', 'app.py', and 'templates'.



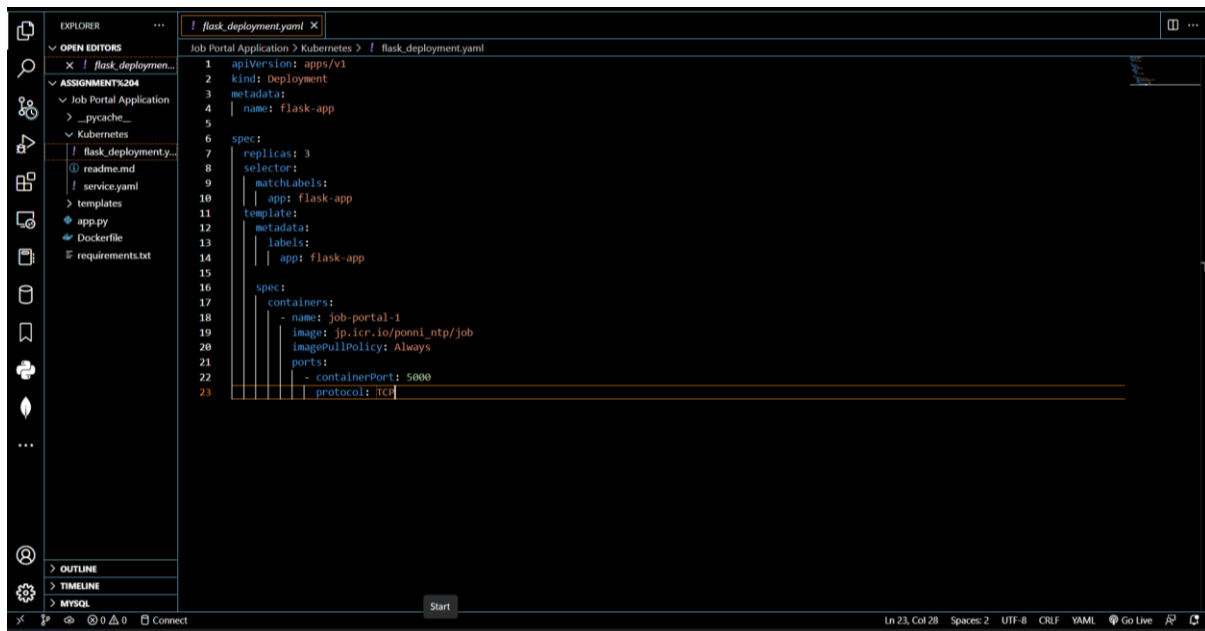
3. Create an IBM container registry and deploy helloworld app or job portalapp.


### Question 3:

Create an IBM container registry and deploy helloworld app or job portalapp.




4. Create a kubernetes cluster in IBM cloud and deploy helloworld image or job portal image and also expose the same app to run in node port.






 **kubernetes**

default

 Search

Workloads > Pods > hello-world-deployment-6c75b9c898-p4ntv > Logs

Workloads   
Cron Jobs  
Daemon Sets  
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Replica Sets  
Replication Controllers  
Stateful Sets  
  
Service  
Ingresses   
Ingress Classes  
Services 

Logs from hello-world in hello-world-dep...

```
* Serving Flask app 'app'
* Debug mode: off
WARNING: This is a development server. Do not use it in a production deployment. Use a production WSGI server instead.
* Running on all addresses (0.0.0.0)
* Running on http://127.0.0.1:5000
* Running on http://172.30.82.142:5000
Press CTRL+C to quit
```