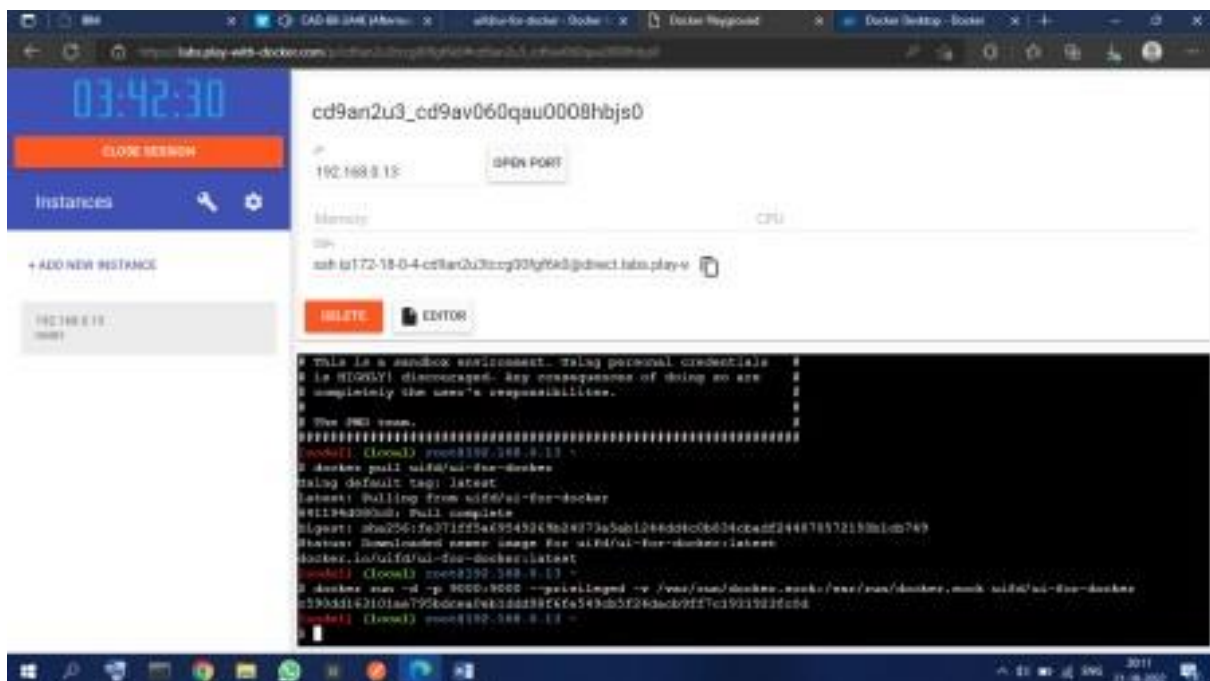
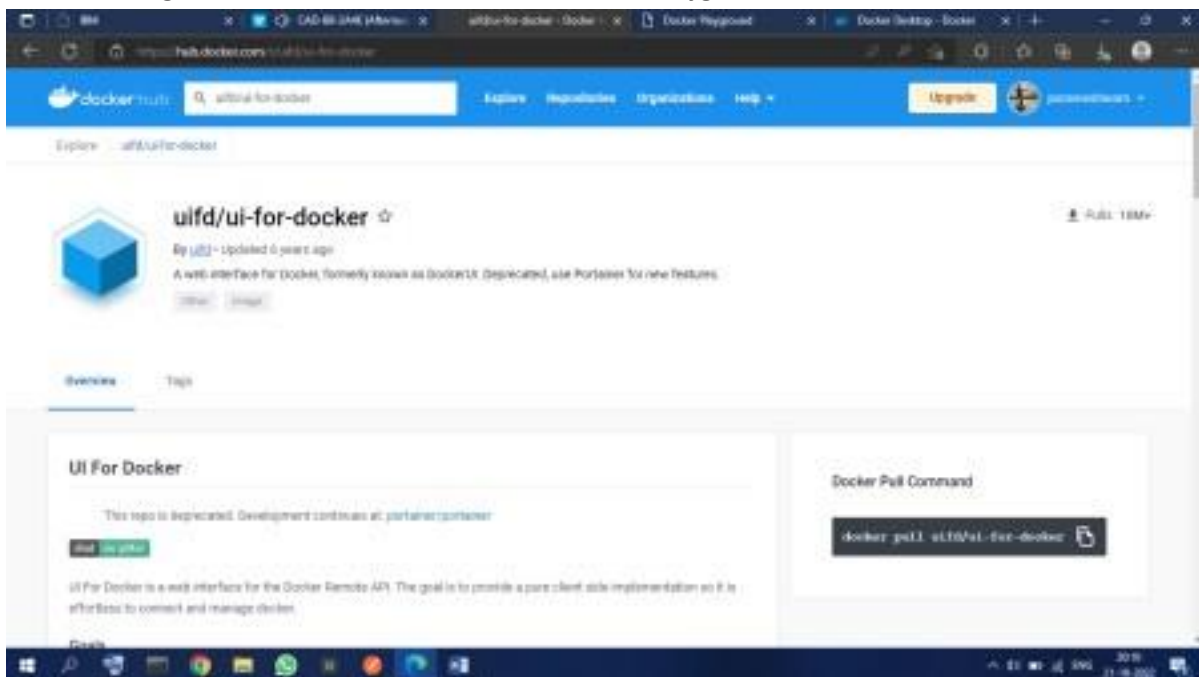


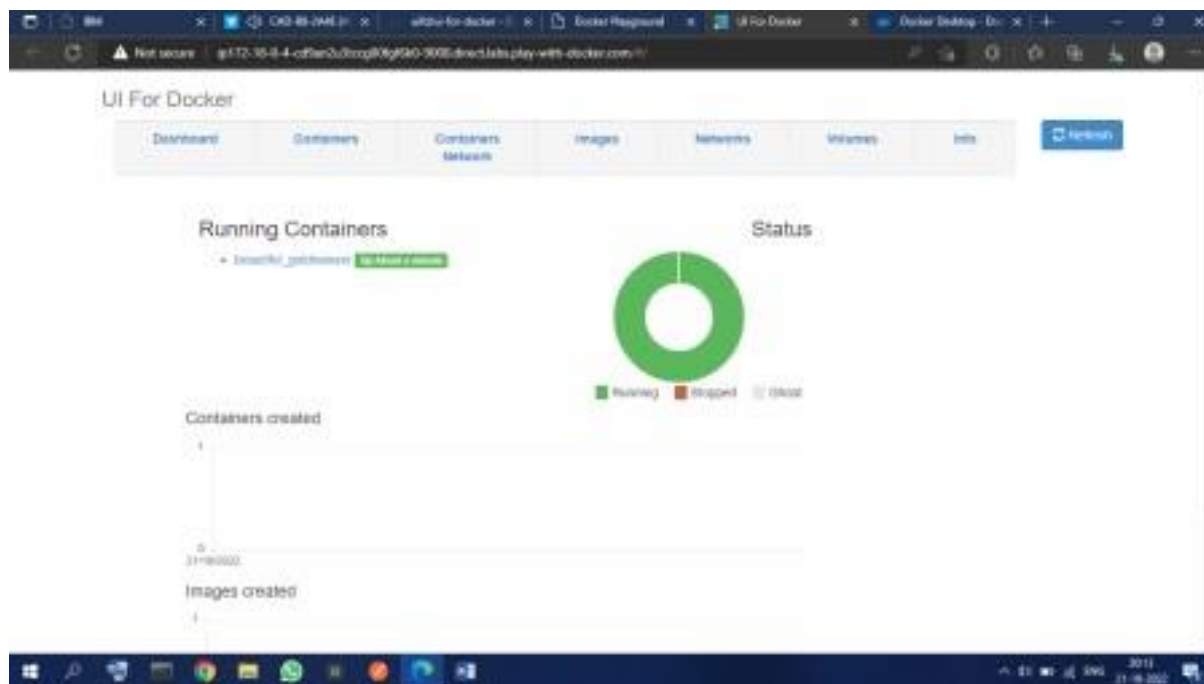
## Assignment-4

### Docker and Kubernetes

Assignment Date	9 November 2022
Team ID	PNT2022TMIDB8-2A4E
Project Name	Project – Skill/ Job recommender
Maximum Marks	2 Marks

#### 1. Pull an image from docker hub and run it in docker Playground



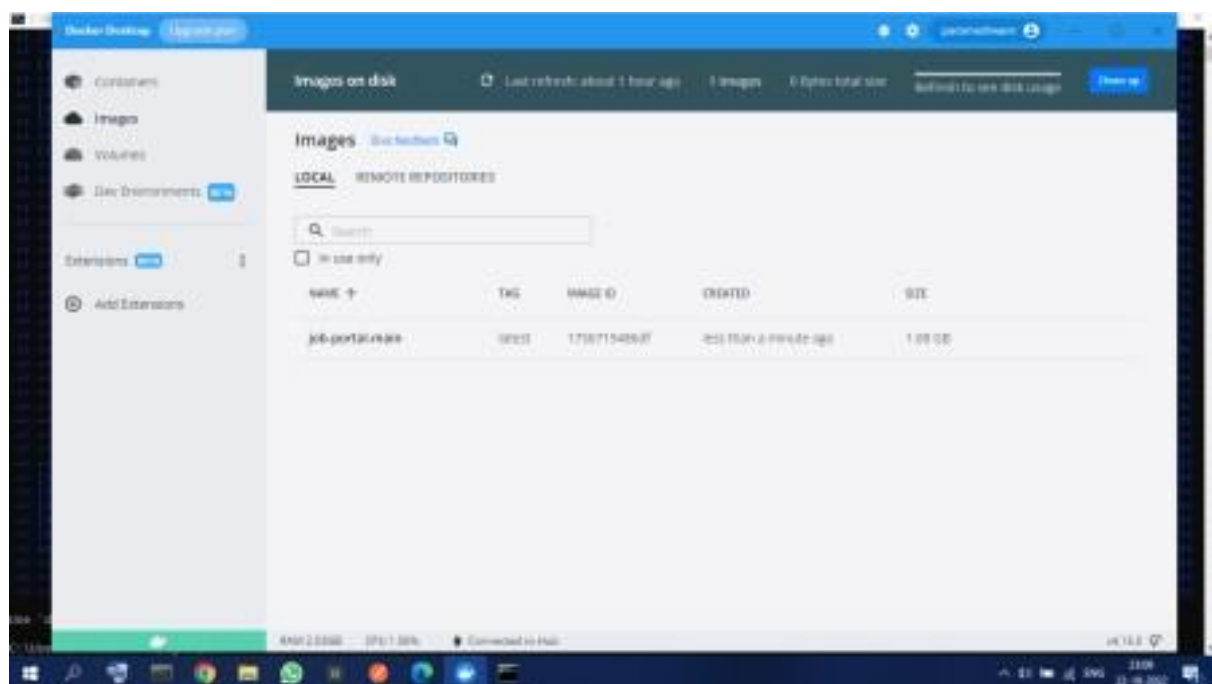


## 2. Create a docker file for the job portal application and deploy it in Docker desktop application

```
FROM ubuntu:20.04
MAINTAINER jaydeep@jaydeep.com
WORKDIR /app
COPY . /app
RUN apt-get update && apt-get install -y python3 python3-pip python3-dev
RUN pip3 install --no-cache-dir -r requirements.txt
EXPOSE 8080
CMD ["python3", "main.py"]
```

See 'docker info' to see key facts against images to find vulnerabilities and learn how to fix them

C:\Users\UAK\Desktop>job-portal-main



## Create a Flask

```
from unicodedata import name
from flask import Flask
import pymongo

app = Flask(__name__)

myclient = pymongo.MongoClient("mongodb+srv://root:asd123@testcluster.sv35uk2.mo
db = myclient["API"]
my_collection = db["book"]

class Book(db.Document):
    book_id = db.IntField()
    name = db

@app.route('/api/db_populate', methods=['POST'])
def db_populate():
    book1 = Book(book_id=1, name="Book 1", author="AAAA")
    book2 = Book(book_id=2, name="Book 2", author="BBBB")
    book1.save()
    book2.save()

if __name__ == "__main__":
    app.run()
```

http://127.0.0.1:5000/api/get\_books

Save

GET http://127.0.0.1:5000/api/get\_books

Send

Params Authorization Headers (6) Body Pre-request Script Tests Settings Cookies

Query Params

	KEY	VALUE	DESCRIPTION	...	Bulk Edit
	Key	Value	Description		

Body Cookies Headers (5) Test Results

200 OK 21 ms 241 B Save Response

Pretty Raw Preview Visualize

JSON

```
1  {
2    "author": "Paulo Coelo",
3    "book_id": "1",
4    "title": "the Alchemist"
5  }
```