# Assignment Kubernetes / Docker

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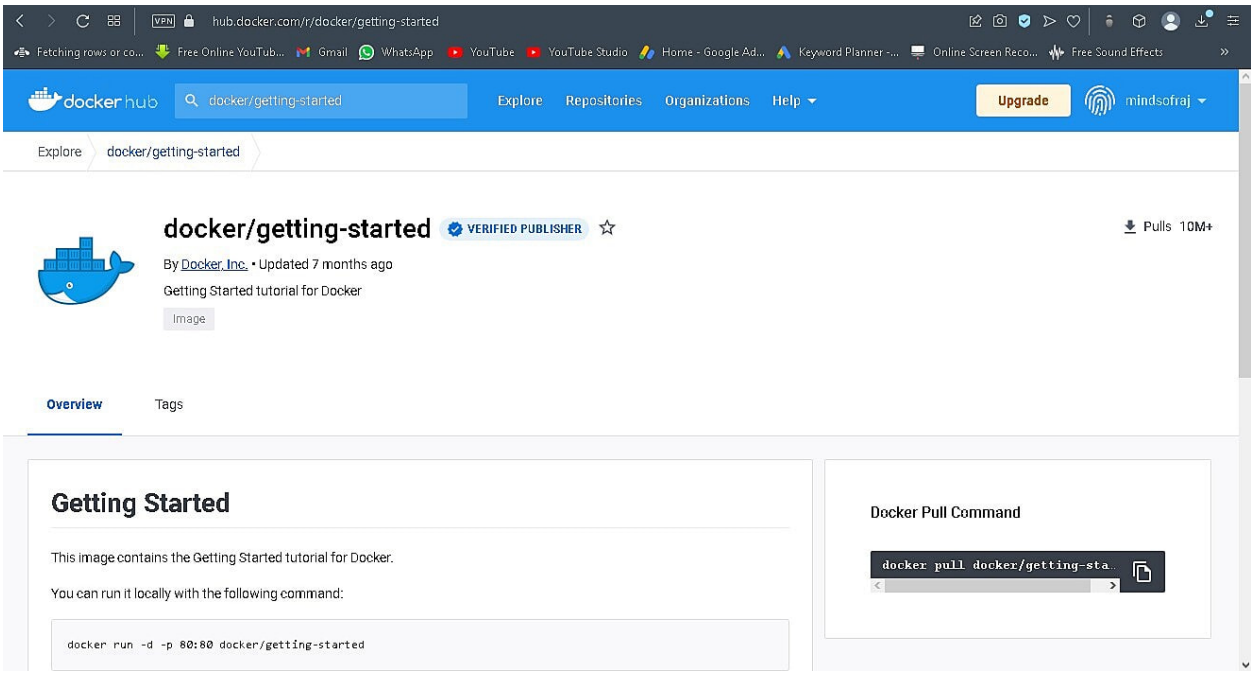
| Team ID | PNT2022TMID40334 |
| Project Name | Project - Skill/Job Recommender Application |

## **Prerequisites** :

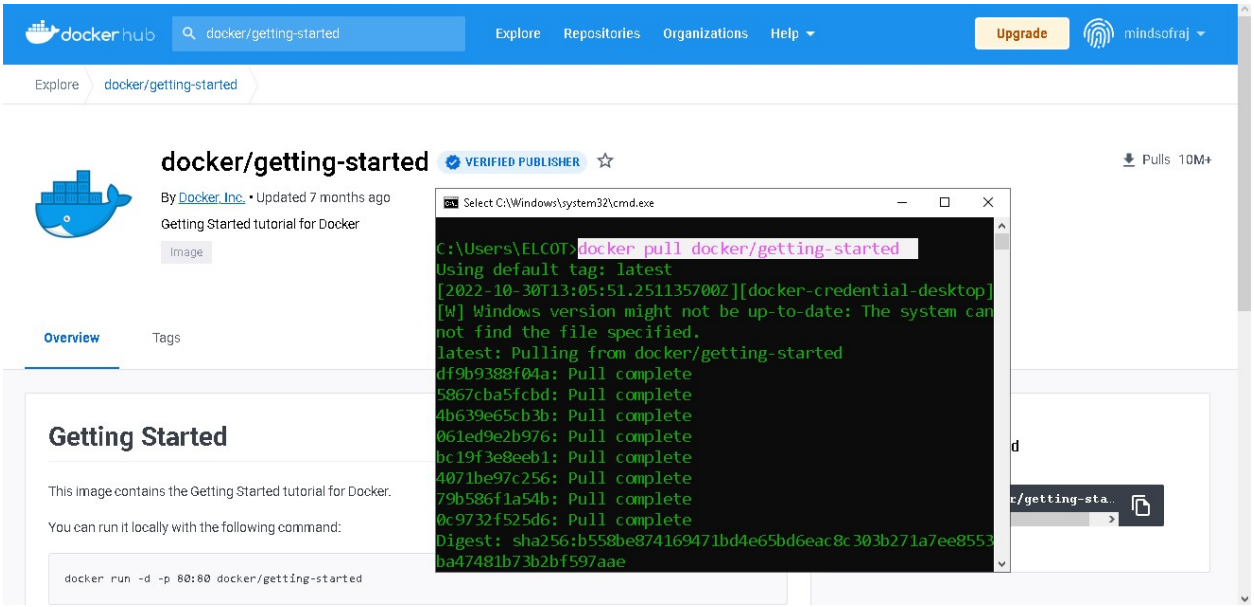
- Download and Install the Docker Desktop for windows
- Login to the Docker Desktop

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

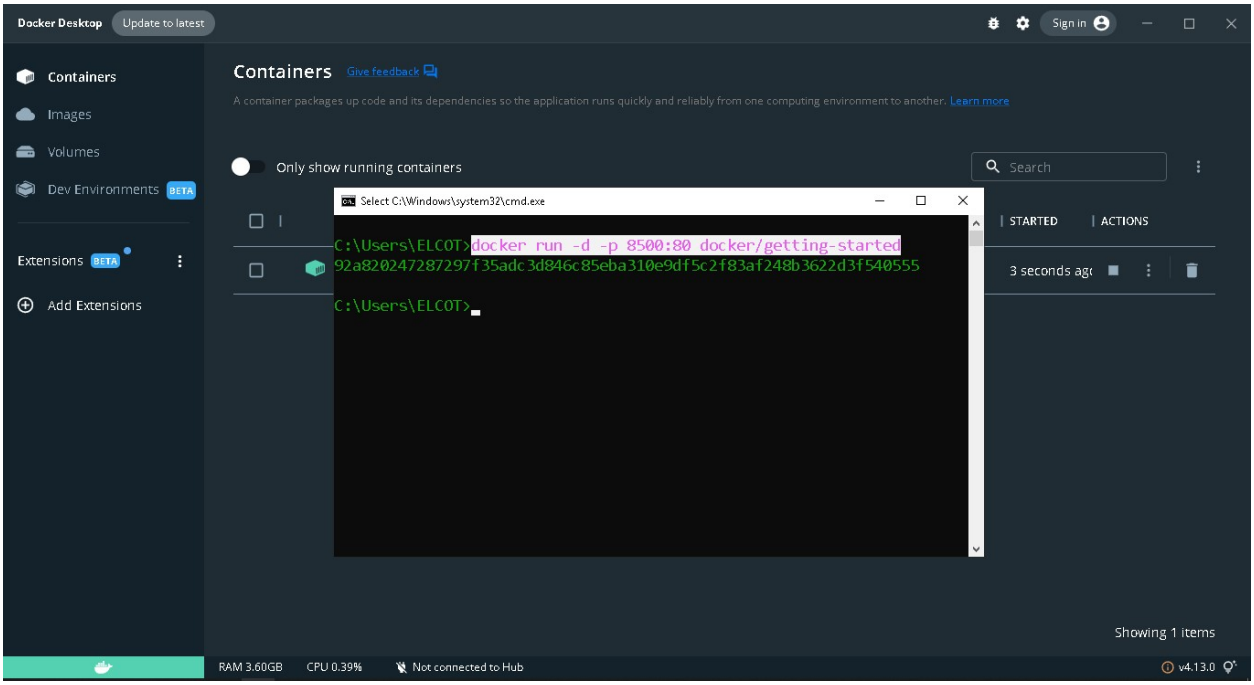
1.1. First We have to signup to the Docker Hub (https://hub.docker.com)
1.2. Search for the docker images



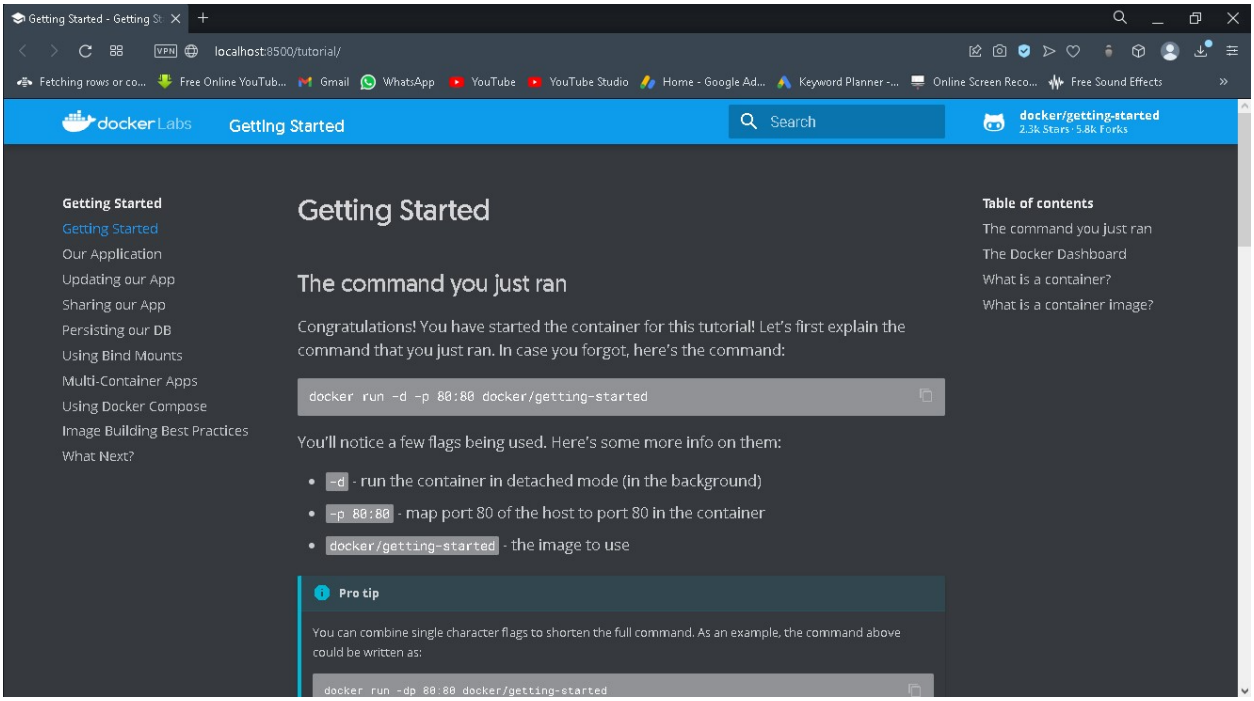
1.3. Run the pull command in command prompt




1.4. After Successfully downloading the docker image run it using the command prompt in a desired port.

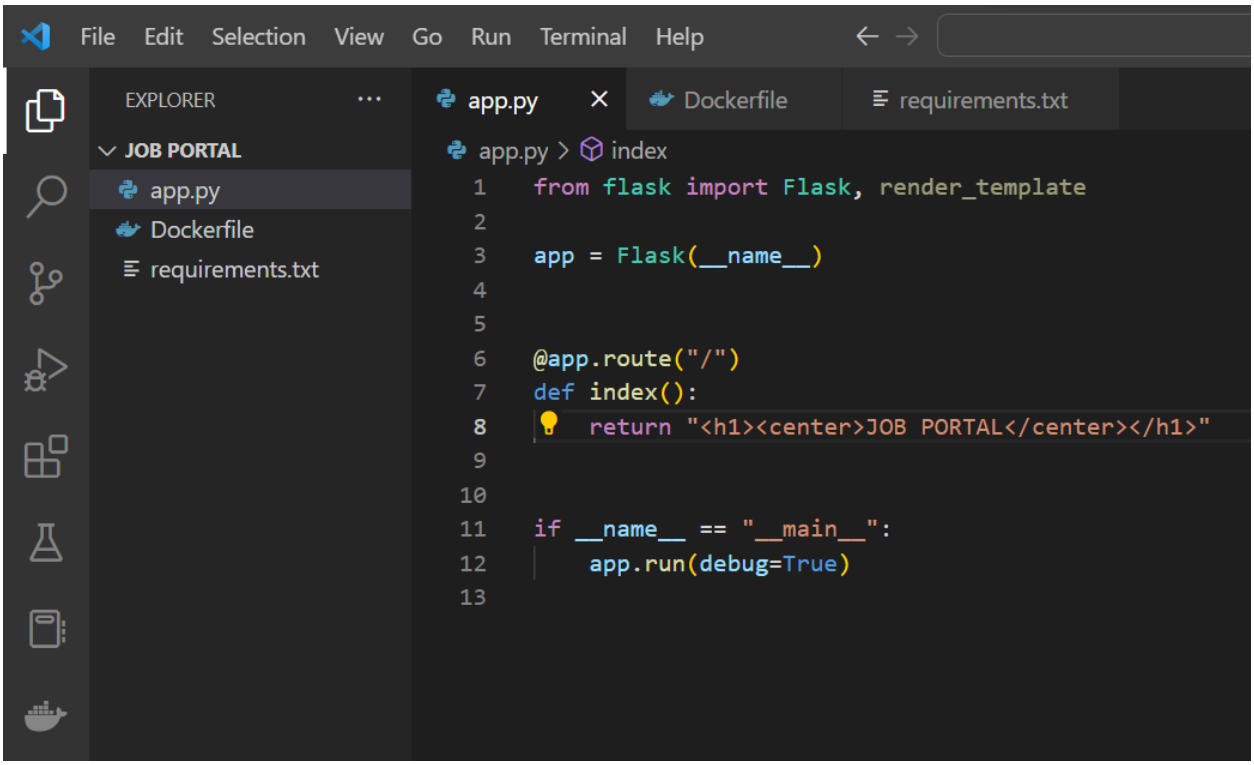


1.5. Then open the localhost inside the browser on the given port
*https://localhost:8500/*

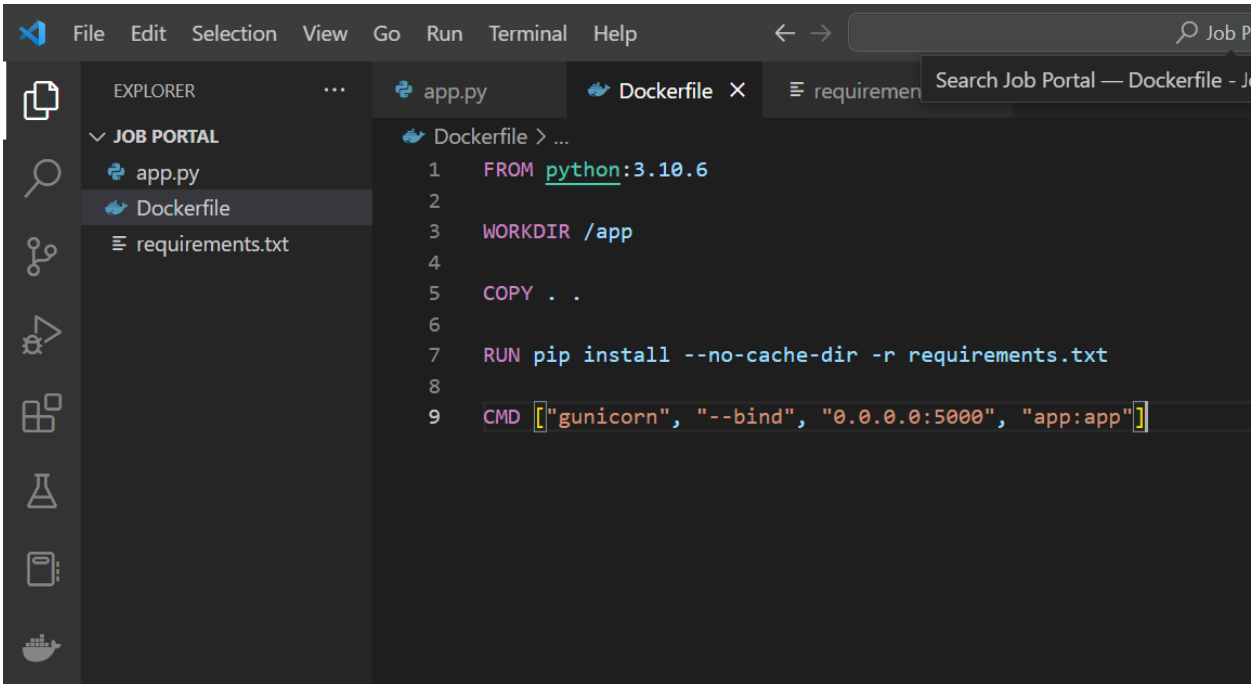


## 2.Create a docker file for the jobportal application and deploy it in Docker desktop application.

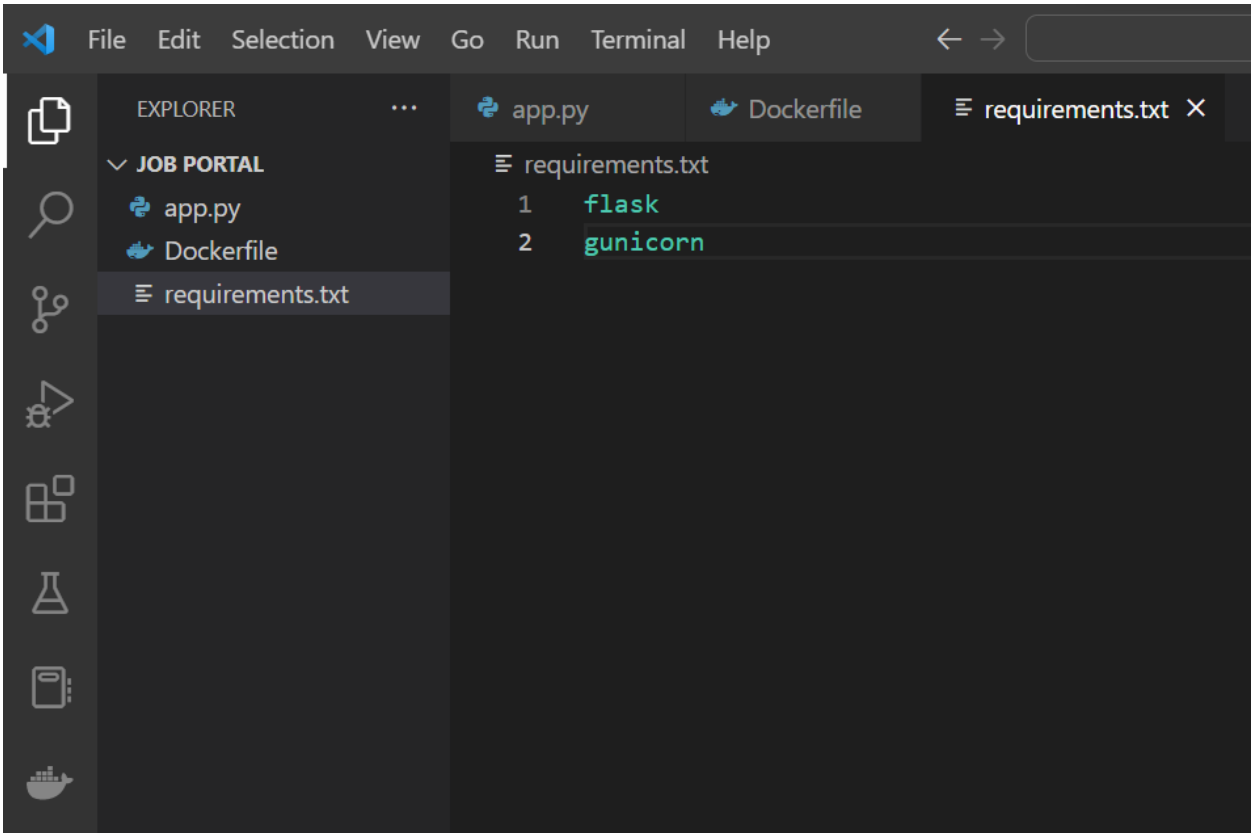
2.1. Create Job Portal Flask Application



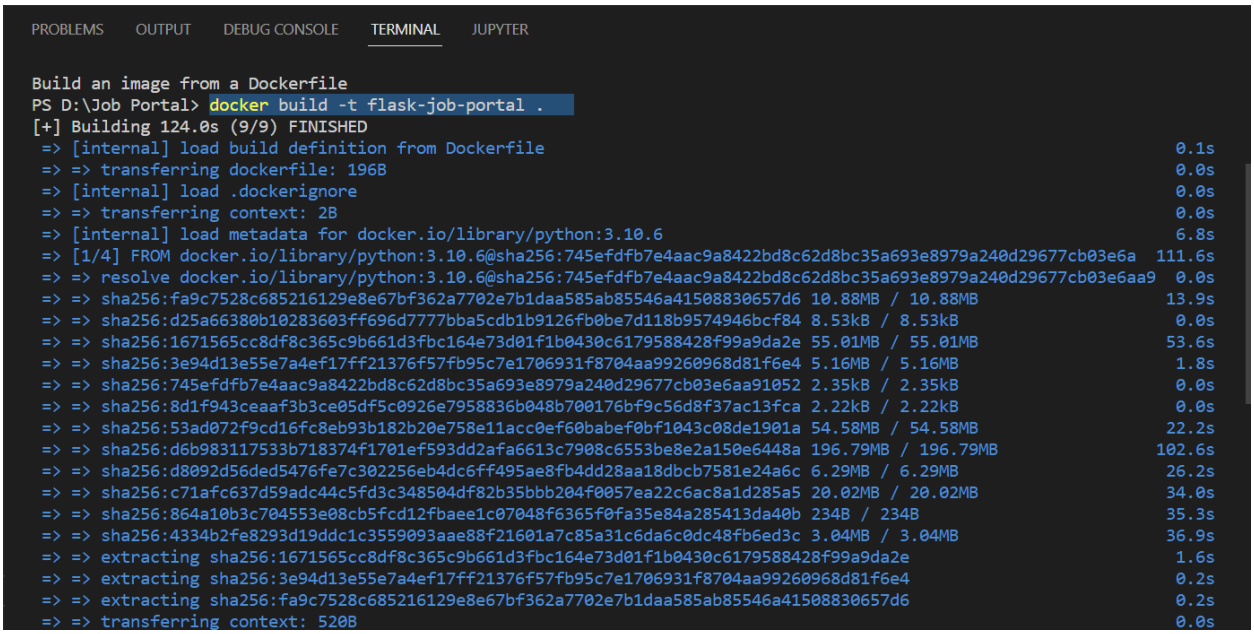

2.2. Create a Dockerfile



2.3. Create Requirements.txt File




2.4. Build the Docker Image Using the Docker
*docker build -t flask-job-portal .*



2.5. Run the Docker Image using Docker Command

docker run -d -p 5000:5000 flask-job-portal

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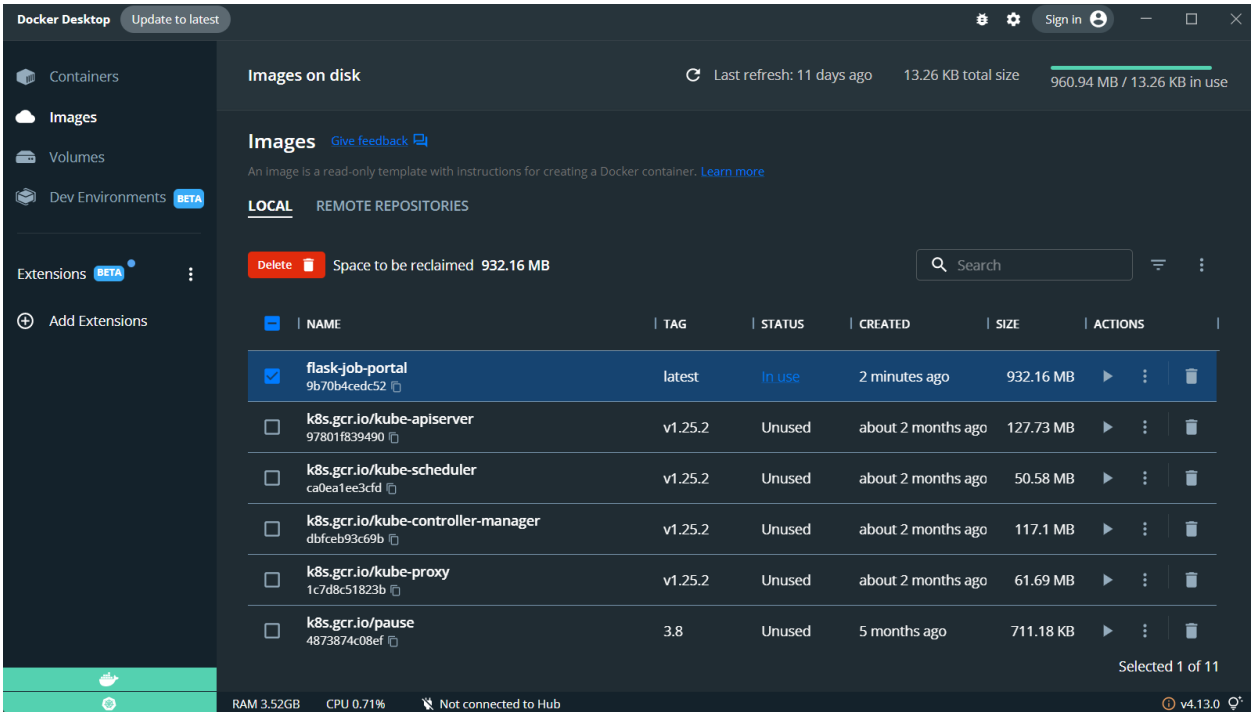
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  JUPYTER

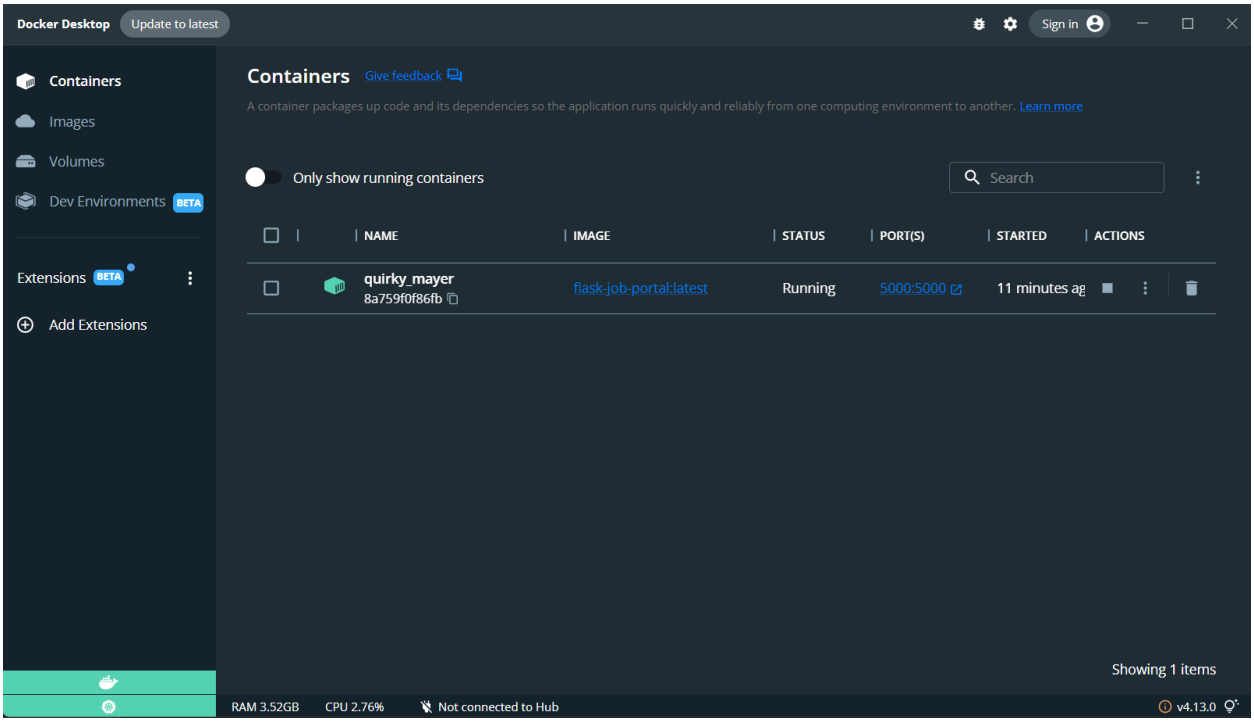
 => => transferring context: 520B                                                0.0s
 => [2/4] WORKDIR /app                                                           0.3s
 => [3/4] COPY . .                                                               0.0s
 => [4/4] RUN pip install --no-cache-dir -r requirements.txt                     5.1s
 => exporting to image                                                           0.1s
 => => exporting layers                                                          0.1s
 => => writing image sha256:9b70b4cedc527190e3ef430d3fbe1ab08316395b38f2b573a5b6e71bceaba47d  0.0s
 => => naming to docker.io/library/flask-job-portal                              0.0s

Use 'docker scan' to run Snyk tests against images to find vulnerabilities and learn how to fix them
PS D:\Job Portal> docker run -d -p 5000:5000 flask-job-portal
8a759f0f86fb24897300a09a2e694bc74e97352d606d7825f7736ab0816131e9
PS D:\Job Portal>
```

2.6. An image is Created in the Docker desktop



2.7. A Container is created on the port 5000




2.8. Our app is running in the browser on the localhost
http://127.0.0.1:5000/