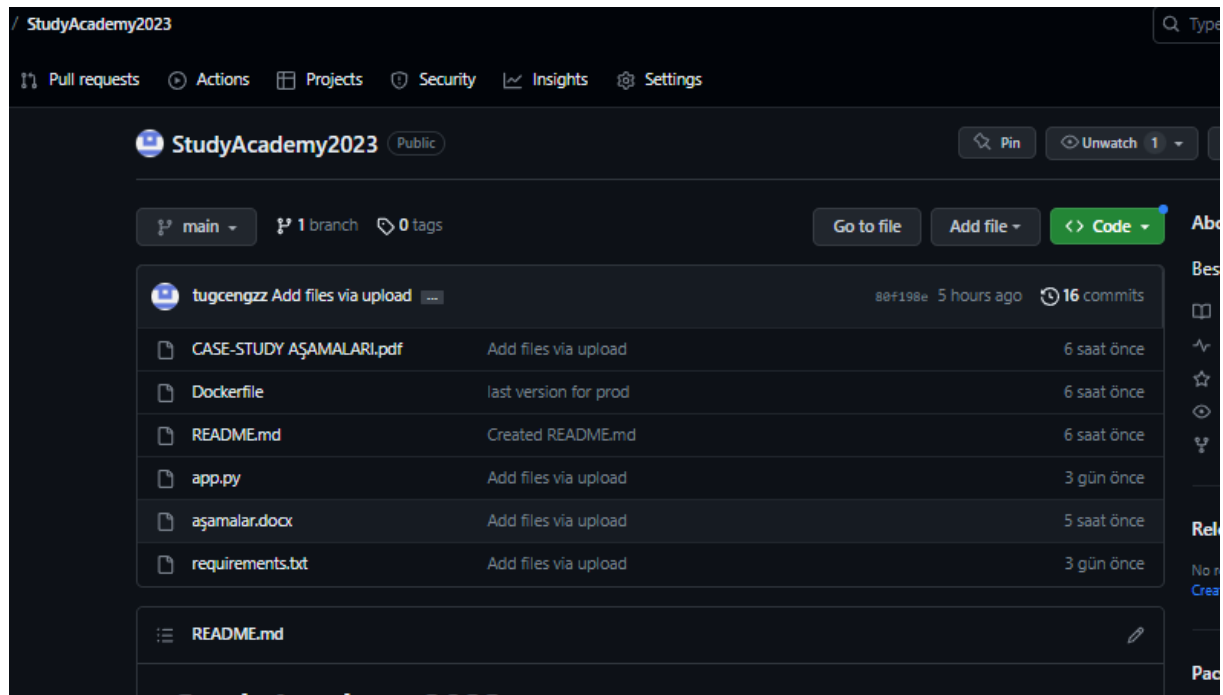


First, I created a repo called StudyCase2023 on Github and uploaded the application code and requirements to this repo.



Then I created a dockerfile first so that the app can run on Docker

```
> Users > ttugc > OneDrive > Desktop > BCFM > Dockerfile > ...  
1  
2  
3 # Base image belirleme  
4 FROM python:3.9  
5  
6 # Uygulama dosyalarını çalışma dizinine kopyalama  
7 COPY . /app  
8  
9 # Uygulama dizinine geçiş yapma  
10 WORKDIR /app  
11  
12 # Gerekli paketleri yükleme  
13 RUN pip install -r requirements.txt  
14  
15 RUN pip install gunicorn  
16  
17 # Uygulamayı çalıştırma  
18 CMD ["gunicorn", "--bind", "0.0.0.0:5000", "app:app"]
```

Then I uploaded the Dockerfile I prepared to the Git repo with the Docker push `tuğçe cengiz/my-page-repo:latest` command.

```

Administrator: Komut İstemi - cmd
=> [auth] library/python:pull token for registry-1.docker.io 0.0s
=> [internal] load build context 0.0s
=> => transferring context: 140B 0.0s
=> [1/5] FROM docker.io/library/python:3.9@sha256:ba10a2af9d6c3bd0d20c46ecbf866dabcbad4e6a3dd7b82e2dfb1a9b6d479d 0.0s
=> CACHED [2/5] COPY . /app 0.0s
=> CACHED [3/5] WORKDIR /app 0.0s
=> CACHED [4/5] RUN pip install -r requirements.txt 0.0s
=> CACHED [5/5] RUN pip install gunicorn 0.0s
=> exporting to image 0.0s
=> => exporting layers 0.0s
=> => writing image sha256:f387e5afd4394cdc8c711bf7ff472f885785a76e6cc0b2e32b35c940c52446cd 0.0s
=> => naming to docker.io/tugceengiz/my-image-repo:latest 0.0s

What's Next?
View summary of image vulnerabilities and recommendations → docker scout quickview

C:\Users\ttugc\OneDrive\Desktop\BCFM>
C:\Users\ttugc\OneDrive\Desktop\BCFM>docker push tugceengiz/my-image-repo:latest
The push refers to repository [docker.io/tugceengiz/my-image-repo]
b47a4b71d216: Pushed
74903b469b72: Pushed
5f70bf18a086: Pushed
58726f8345ce: Pushed
40b826ecd0e2: Pushed
97f54b85ff57: Pushed
52c358a45793: Pushed
f1acaab90728: Pushed
28218ecd8008: Pushed
2f66f3254105: Pushed
a72216901005: Pushed
61581d479298: Pushed
latest: digest: sha256:f28ee3e2f699a32f5beb6e79b2cbd6bf927b20d5a1beebad4b185fc46b64e9f1 size: 2842

```

Then I opened an image repository on Docker Hub, created a docker image with dockerfile and uploaded it to the Docker Hub Repo I opened.

I used the command 'docker build -t tugceengiz/my-image-repo:latest'.

```

Seç Administrator: Komut İstemi - cmd
C:\WINDOWS\system32>cmd
Microsoft Windows [Version 10.0.22000.2176]
(c) Microsoft Corporation. Tüm hakları saklıdır.

C:\WINDOWS\system32>C:

C:\WINDOWS\system32>cd\Users\ttugc\OneDrive\Desktop\BCFM

C:\Users\ttugc\OneDrive\Desktop\BCFM>dir
Volume in drive C has no label.
Volume Serial Number is C23D-511E

Directory of C:\Users\ttugc\OneDrive\Desktop\BCFM

16.07.2023  14:43    <DIR>          .
16.07.2023  14:31    <DIR>          ..
16.07.2023  14:16             216 app.py
16.07.2023  14:43             350 Dockerfile
16.07.2023  14:17           2,344 import requests, random.txt
06.07.2023  09:17             13 requirements.txt
               4 File(s)          2,923 bytes
               2 Dir(s)      30.801.326.080 bytes free

C:\Users\ttugc\OneDrive\Desktop\BCFM>docker build -t tugceengiz/my-image-repo:latest .
[+] Building 2.3s (11/11) FINISHED                                docker:default
=> [internal] load .dockerignore 0.0s
=> => transferring context: 2B 0.0s
=> [internal] load build definition from Dockerfile 0.1s
=> => transferring dockerfile: 389B 0.0s
=> [internal] load metadata for docker.io/library/python:3.9 2.1s
=> [auth] library/python:pull token for registry-1.docker.io 0.0s
=> [internal] load build context 0.0s
=> => transferring context: 140B 0.0s
=> [1/5] FROM docker.io/library/python:3.9@sha256:ba10a2af9d6c3bd0d20c46ecbf866dabcbad4e6a3dd7b82e2dfb1a9b6d479d 0.0s
=> CACHED [2/5] COPY . /app 0.0s
=> CACHED [3/5] WORKDIR /app 0.0s
=> CACHED [4/5] RUN pip install -r requirements.txt 0.0s
=> CACHED [5/5] RUN pip install gunicorn 0.0s
=> exporting to image 0.0s
=> => exporting layers 0.0s
=> => writing image sha256:f387e5afd4394cdc8c711bf7ff472f885785a76e6cc0b2e32b35c940c52446cd 0.0s
=> => naming to docker.io/tugceengiz/my-image-repo:latest 0.0s

```

I ran my app as a Docker container using the command ' docker run -d -p 5000:5000 '

```
6cdcede3079fe): Bind for 0.0.0.0:8080 failed: port is already allocated.  
C:\Users\ttugc\OneDrive\Desktop\BCFM>docker run -d -p 5000:5000 tugceengiz/my-image-repo:latest  
23d66dfca1ea73eab64330a23a207186a750a796788fa8f14c5151aad8d33116
```

I went to <http://localhost:5000> in the browser and saw the app was running.

