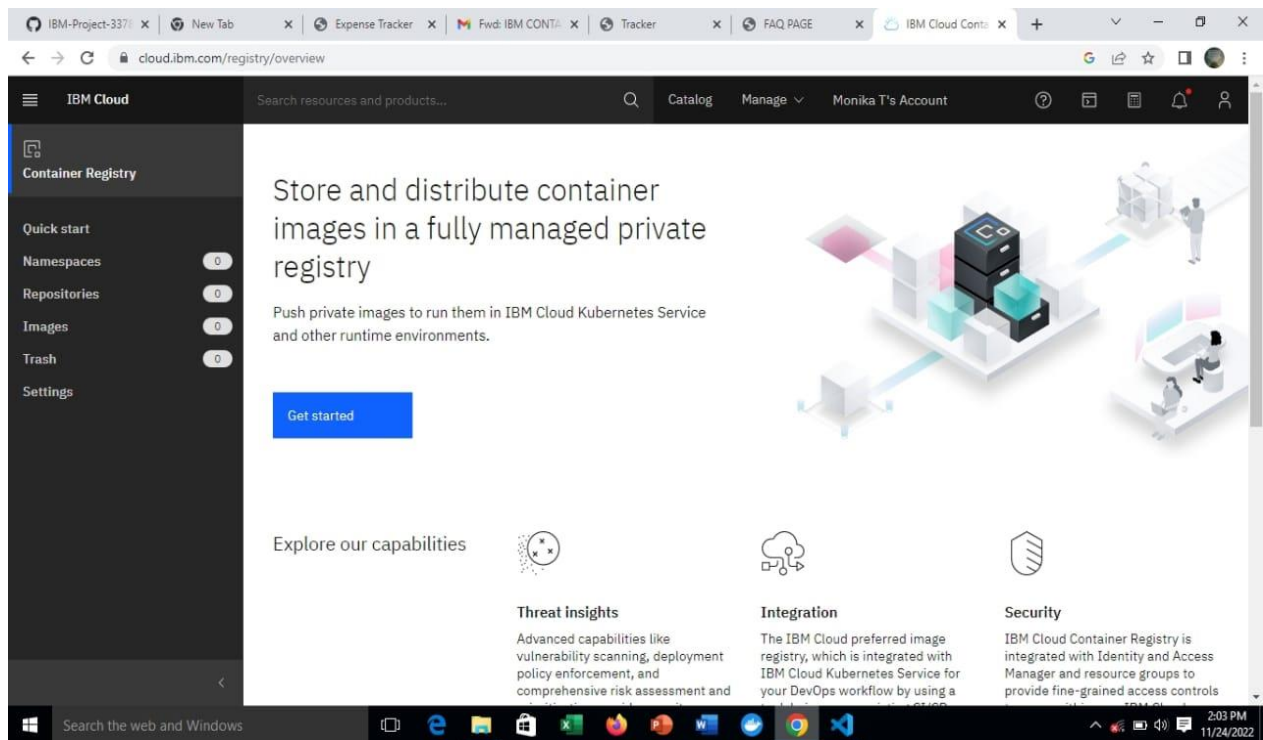


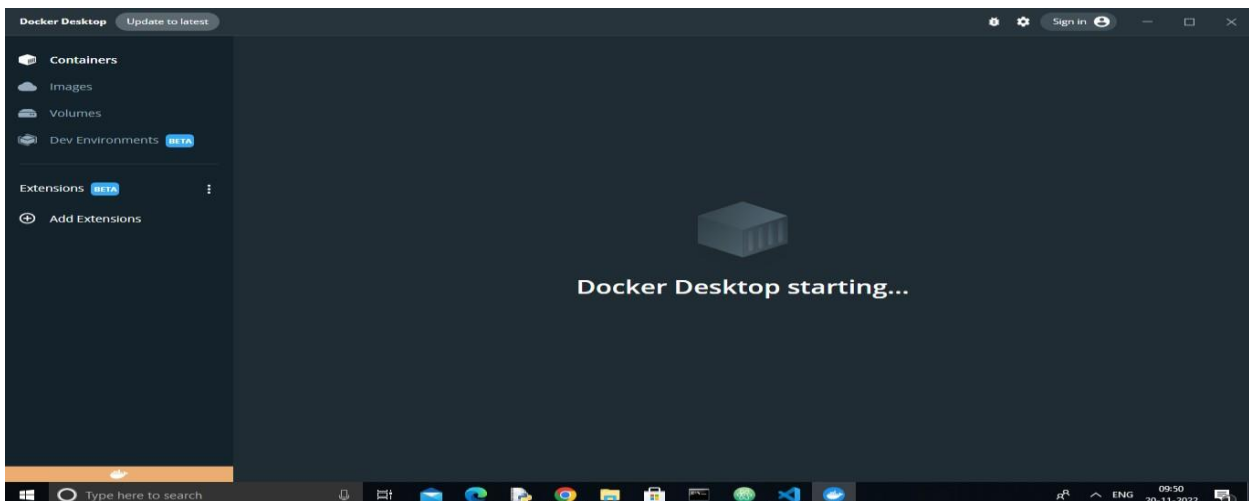
## UPLOAD IMAGE TO IBM CONTAINER REGISTRY

Date	24/11/2022
Team ID	PNT2022TMID46374
Project Name	Personal Expense Tracker Application

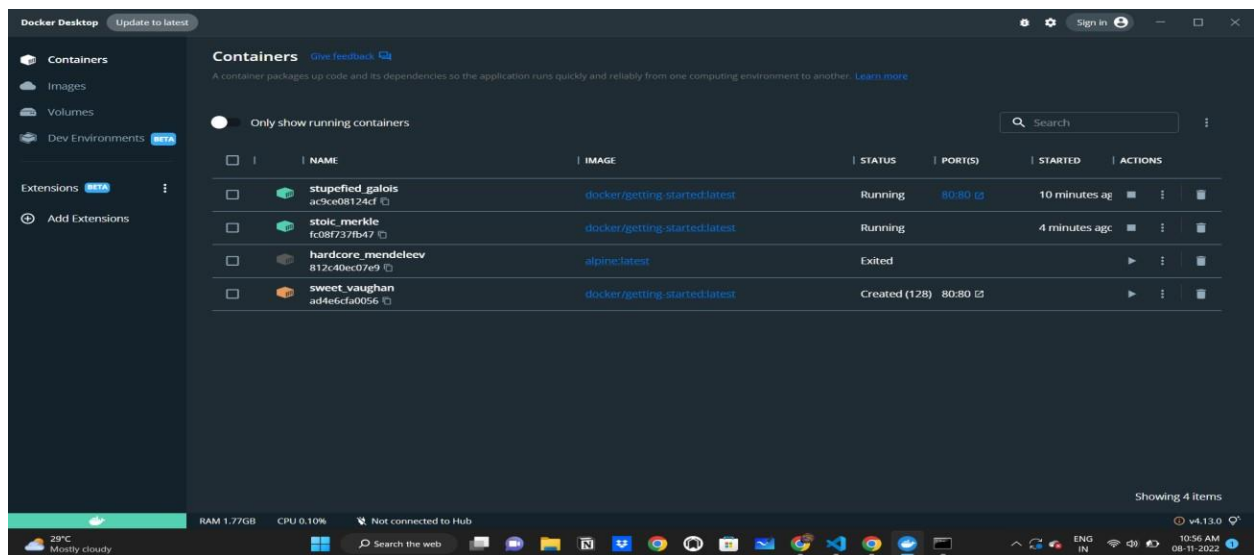
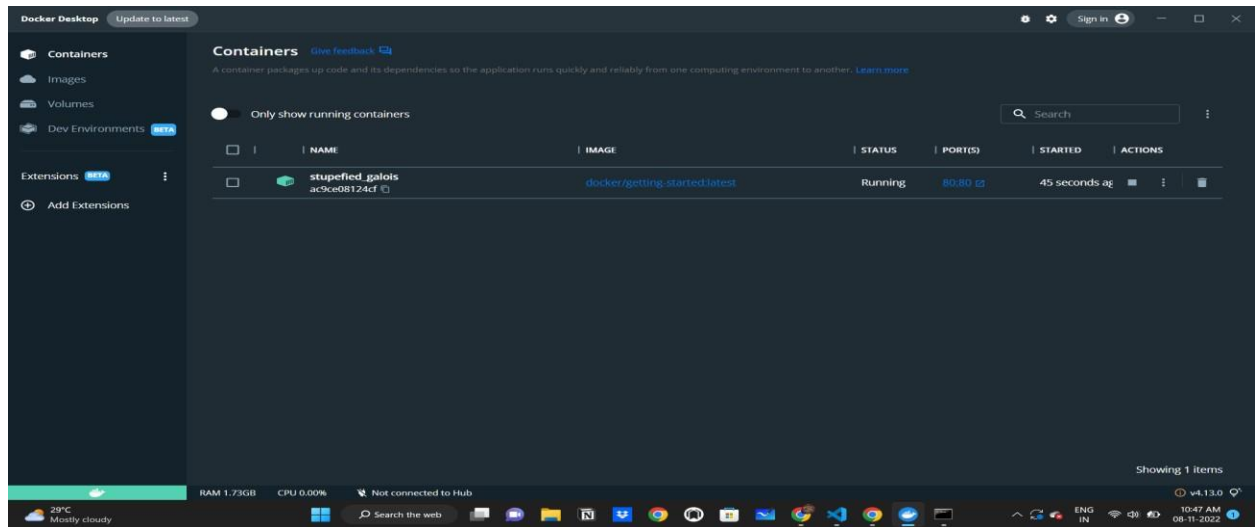
### IBM Container Registry :



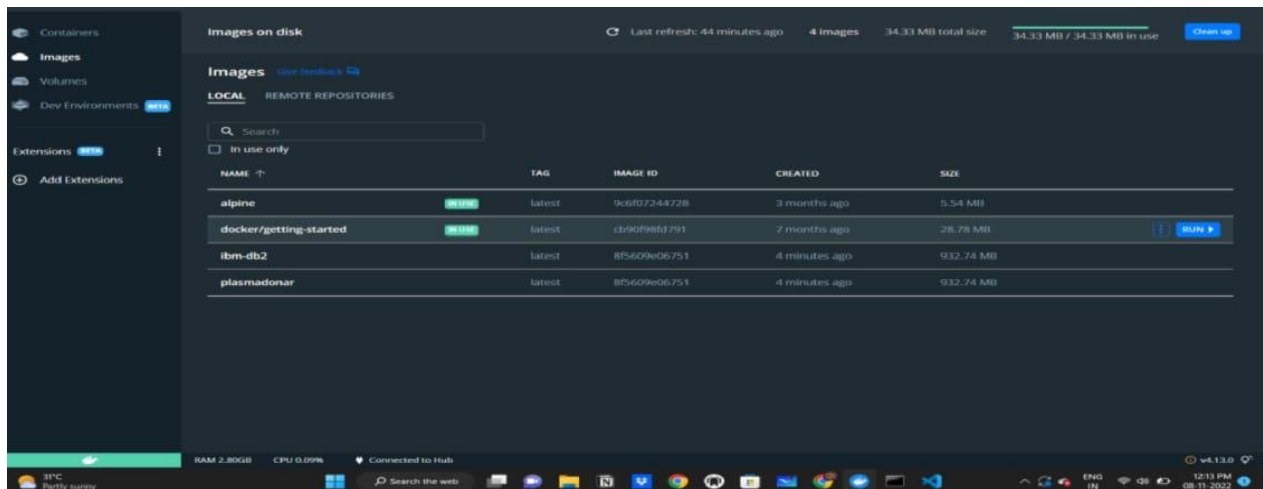
### Docker Running :



## Container Registry :



## Upload images :



## Running on terminal to push the images :

```
Command Prompt - docker build -t plasmadonar

C:\Users\parva\Downloads\plasmadonar\plasmadonar>docker run -p 5000:5000 plasmadonar
Unable to find image 'plasmadonar:latest' locally
docker: Error response from daemon: pull access denied for plasmadonar, repository does not exist or may require 'docker login': denied: requested access to the resource is denied.
See 'docker run --help'.

C:\Users\parva\Downloads\plasmadonar\plasmadonar>docker run -p 5000:5000 plasmadonar
Unable to find image 'plasmadonar:latest' locally
docker: Error response from daemon: pull access denied for plasmadonar, repository does not exist or may require 'docker login': denied: requested access to the resource is denied.
See 'docker run --help'.

C:\Users\parva\Downloads\plasmadonar\plasmadonar>docker run -p 5000:5000
'docker run' requires at least 1 argument.
See 'docker run --help'.

Usage: docker run [OPTIONS] IMAGE [COMMAND] [ARG...]

Run a command in a new container

C:\Users\parva\Downloads\plasmadonar\plasmadonar>docker build -t plasmadonar .
[+] Building 382.5s (4/9)
=> [internal] load build definition from Dockerfile
=> [internal] load dockerfile: 190s
=> [internal] load .dockerignore
=> [internal] load metadata for docker.io/library/python:3.10.6
=> [1/5] FROM docker.io/library/python:3.10.6@sha256:745efdfb7e4aac9a8422bd8c62d8bc35a693e8979a248d29677cb03e6aa91052
=> sha256:3a1f945caaf7b1c0bdf5c0926c7904b0001700f9c50d8f370c13fca 2.25kB / 2.25kB
=> sha256:3a0a213e5e7ade177f2177474f595c7e2700511f970a40920000d0d1e6e8 5.14kB / 5.14kB
=> sha256:fab7226c0072101250e07f15027703c7b1a408a045580a110051005700 18.89kB / 18.89kB
=> sha256:745efdfb7e4aac9a8422bd8c62d8bc35a693e8979a248d29677cb03e6aa91052 2.35kB / 2.35kB
=> sha256:225e0c0010280074f000777f0a0c0b10412f00077410075700400c104 4.01kB / 4.01kB
=> sha256:1071505c00f0c305c000104f0c00f7001f1000500c107000520f000000 55.01kB / 55.01kB
=> sha256:3100011753b710374f1701ef593d2af6613c7908c6553b0e2a150c440a 106.95kB / 106.95kB
=> sha256:d0b9311753b710374f1701ef593d2af6613c7908c6553b0e2a150c440a 106.95kB / 106.95kB
=> sha256:000000000000000000000000000000000000000000000000000000000000 0.00kB / 0.00kB
=> extracting sha256:1071505c00f0c305c000104f0c00f7001f1000500c107000520f000000 3.6kB
=> extracting sha256:3a0a213e5e7ade177f2177474f595c7e2700511f970a40920000d0d1e6e8 8.42kB / 8.42kB
=> extracting sha256:fab7226c0072101250e07f15027703c7b1a408a045580a110051005700 18.89kB / 18.89kB
=> extracting sha256:745efdfb7e4aac9a8422bd8c62d8bc35a693e8979a248d29677cb03e6aa91052 2.35kB / 2.35kB
=> extracting sha256:225e0c0010280074f000777f0a0c0b10412f00077410075700400c104 4.01kB / 4.01kB
=> sha256:1071505c00f0c305c000104f0c00f7001f1000500c107000520f000000 55.01kB / 55.01kB
=> sha256:3100011753b710374f1701ef593d2af6613c7908c6553b0e2a150c440a 106.95kB / 106.95kB
=> sha256:d0b9311753b710374f1701ef593d2af6613c7908c6553b0e2a150c440a 106.95kB / 106.95kB
=> [internal] load build context
=> transferring context: 331.05kB
```

```
Select Command Prompt - docker build -t plasmadonar .

Usage: docker run [OPTIONS] IMAGE [COMMAND] [ARG...]

Run a command in a new container

C:\Users\parva\Downloads\plasmadonar>docker build -t plasmadonar .
[+] Building 573.2s (8/9)
=> [internal] load build definition from Dockerfile 0.15s
=> transferring Dockerfile: 179B 0.0s
=> [internal] load dockerignore 0.1s
=> transferring context: 2B 0.0s
=> [internal] load metadata for docker.io/library/python:3.10.6 0.28s
=> [1/5] FROM docker.io/library/python:3.10.6@sha256:743ef4b7e4aac9a8422bd8c62d8bc75a697e0979a28bd29677cbb1e6a91052 553.7s
=> resolve docker.io/library/python:3.10.6@sha256:743ef4b7e4aac9a8422bd8c62d8bc75a697e0979a28bd29677cbb1e6a91052 0.0s
=> sha256:8d1f943e0a7f3b3e0d5f5c0f3a695836b040700170b19c56d8f37ac13fca 2.22kB / 2.22kB 0.0s
=> sha256:3a0ad13e59eade17f21217d7f7105c7c1700211870a09920e0ad011ead 5.45kB / 5.45kB 17.5s
=> sha256-fa0c752b6485210129e0e67bf362a7702e7b16a595ab85546a4150883065706 10.00kB / 10.00kB 20.9s
=> sha256-743ef4b7e4aac9a8422bd8c62d8bc75a697e0979a28bd29677cbb1e6a91052 2.35kB / 2.35kB 0.0s
=> sha256-d250010010281007f1f06d27770bdcdb10912d1f08072d1180957404de-f04 2.53kB / 2.53kB 0.0s
=> sha256-1671965c-b0f6-365c9a6c1d3fbc16d673d01f1b04386c17958842a9f9a9ad2e 55.01kB / 55.01kB 192.0s
=> sha256-53ad072f0cd16fc8b03b102b20675b01acc0ef50b0b0f0b1043c0bde1001a 54.50kB / 54.50kB 267.2s
=> sha256-d0808117513b718174f1701ef503d02afad13c790bc055b0e6a110e6a48a 196.70kB / 196.70kB 537.7s
=> sha256-d0808117513b718174f1701ef503d02afad13c790bc055b0e6a110e6a48a 201.7s
=> extracting sha256-1671965c-b0f6-365c9a6c1d3fbc16d673d01f1b04386c17958842a9f9a9ad2e 3.6s
=> extracting sha256-3a0ad13e59eade17f21217d7f7105c7c1700211870a09920e0ad011ead 0.4s
=> extracting sha256-fa0c752b6485210129e0e67bf362a7702e7b16a595ab85546a4150883065706 0.3s
=> sha256-743ef4b7e4aac9a8422bd8c62d8bc75a697e0979a28bd29677cbb1e6a91052 301.4s
=> extracting sha256-53ad072f0cd16fc8b03b102b20675b01acc0ef50b0b0f0b1043c0bde1001a 2.7s
=> sha256-b04a10b3c784553a08c5fcd12f0a0c1c90404f6305f0a35e8a205413ad00 23kB / 23kB 250.4s
=> sha256-d19657a2833f9a01c3559095aa08f21091a7c85a315d6de90c48f10edc 3.00kB / 3.00kB 275.0s
=> extracting sha256-d0808117513b718174f1701ef503d02afad13c790bc055b0e6a110e6a48a 12.0s
=> extracting sha256-d0808117513b718174f1701ef503d02afad13c790bc055b0e6a110e6a48a 0.0s
=> extracting sha256-b04a10b3c784553a08c5fcd12f0a0c1c90404f6305f0a35e8a205413ad00 0.9s
=> extracting sha256-b04a10b3c784553a08c5fcd12f0a0c1c90404f6305f0a35e8a205413ad00 0.0s
=> extracting sha256-413482f40293d10dd1c3559095aa08f21091a7c85a315d6de90c48f10edc 0.4s
=> [internal] load build context 0.1s
=> transferring context: 311.05kB 0.0s
=> [2/5] WORKDIR /app 0.3s
=> [3/5] COPY requirements.txt ./ 0.1s
=> [4/5] pip install -r requirements.txt 12.5s
=> [5/5] COPY . . 0.25s
```

```
Microsoft Windows [Version 10.0.22000.1098]
(c) Microsoft Corporation. All rights reserved.

C:\Users\parva>docker run -d -p 80:80 docker/getting-started
Unable to find image 'docker/getting-started:latest' locally
latest: Pulling from docker/getting-started
0ff98938ff0da: Pull complete
0b62cb5fcd0: Pull complete
4b639e65cb3b: Pull complete
0d1ed0b0976: Pull complete
bc19f3e8ee01: Pull complete
4071be97c256: Pull complete
79b306f1a5b: Pull complete
0c9732f525d6: Pull complete
Digest: sha256:b558be874169471bd4e69bdeac83b3b271a7ee8553ba47481b73b2b597aae
Status: Downloaded newer image for docker/getting-started:latest
ac9ce08124cf2d8e43bb14de75cc479902b99ad5c4d6806c90513741b65f26b

C:\Users\parva>docker container run alpine echo "Hello world"
Unable to find image 'alpine:latest' locally
docker: Error response from daemon: pull access denied for alpine, repository does not exist or may require 'docker login': requested access to the resource is denied.
See 'docker run --help'.

C:\Users\parva>docker container run alpine echo "Hello world"
Unable to find image 'alpine:latest' locally
latest: Pulling from library/alpine
21ec9ae27d: Pull complete
Digest: sha256:bc41182d7ef5ffc53a40b04de725193bc10142a1243f395ee852a8d9730fc2ad
Status: Downloaded newer image for alpine:latest
Hello world

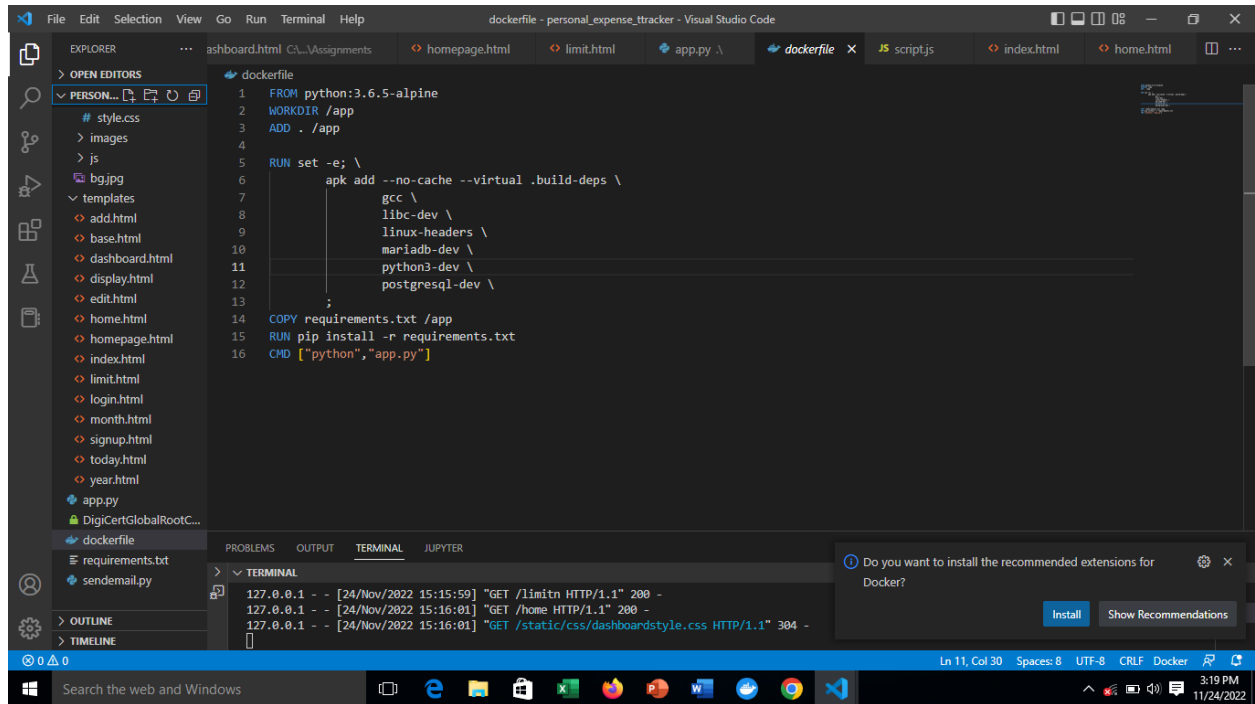
C:\Users\parva>cd..

C:\Users>docker run -d -p 80:80 docker/getting-started
0fdeeef006dc8376e708b721c1fcd0de1f7c3b5c8c02a5fab383B4ec
docker: Error response from daemon: driver failed programming external connectivity on endpoint sweet_vanah (c2fee54ddc66e45a890e8f1189f789c70ac1edde5f1da6a0c42c373487ae2dba1): Bind for 0.0.0.0:80 failed: port is already allocated.

C:\Users>docker container run alpine echo "Hello world"
Unable to find image 'alpine:latest' locally
docker: Error response from daemon: pull access denied for alpine, repository does not exist or may require 'docker login': denied: requested access to the resource is denied.
See 'docker run --help'.

C:\Users>
```

## Coding :



The screenshot shows the Visual Studio Code interface with a Dockerfile open in the editor. The Dockerfile is for a Python application named 'personal\_expense\_tracker'. The file explorer on the left shows the project structure, including a 'templates' directory with various HTML files and a 'requirements.txt' file. The terminal at the bottom shows the output of the Docker build process, including the installation of dependencies and the execution of the application.

```
1 FROM python:3.6.5-alpine
2 WORKDIR /app
3 ADD . /app
4
5 RUN set -e; \
6     apk add --no-cache --virtual .build-deps \
7         gcc \
8         libc-dev \
9         linux-headers \
10        mariadb-dev \
11        python3-dev \
12        postgresql-dev \
13        ;
14 COPY requirements.txt /app
15 RUN pip install -r requirements.txt
16 CMD ["python", "app.py"]
```

The terminal output shows the following commands and their results:

```
127.0.0.1 - - [24/Nov/2022 15:15:59] "GET /limitn HTTP/1.1" 200 -
127.0.0.1 - - [24/Nov/2022 15:16:01] "GET /home HTTP/1.1" 200 -
127.0.0.1 - - [24/Nov/2022 15:16:01] "GET /static/css/dashboardstyle.css HTTP/1.1" 304 -
```

A notification at the bottom right asks: "Do you want to install the recommended extensions for Docker?" with buttons for "Install" and "Show Recommendations".