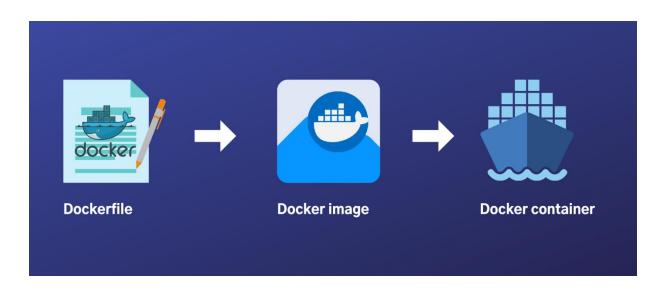
Date	15 NOVEMBER 2022
Team ID	PNT2022TMID17124
Project Name	Personal Expense Tracker Application



flask-docker

app.py
Dockerfile
requirements.txt
venv

How to modify app.py

```
from flask import Flask
app = Flask(__name__)

@app.route('/')
def hello_geek():
    return '<h1>Hello from Flask & Docker</h2>'

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

Now, if we run **python app.py** on the command line to test our Flask app, we should get results similar to the ones shown below:

```
* Serving Flask app 'app' (lazy loading)

* Environment: production

WARNING: This is a development server. Do not use it in a production deployment.

Use a production WSGI server instead.

* Debug mode: on

* Running on http://127.0.0.1:5000/ (Press CTRL+C to quit)

* Restarting with stat

* Debugger is active!

* Debugger PIN: 316-584-348
```

How to modify the Dockerfile:

```
# syntax=docker/dockerfile:1
FROM python:3.8-slim-buster

WORKDIR /python-docker

COPY requirements.txt requirements.txt
RUN pip3 install -r requirements.txt

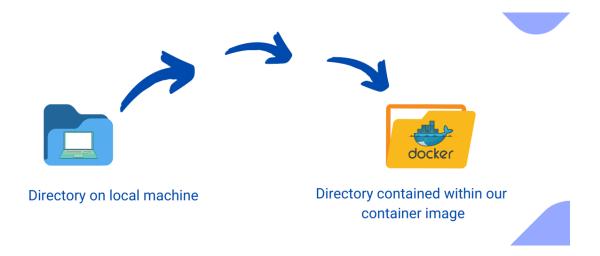
COPY . .

CMD [ "python3", "-m" , "flask", "run", "--host=0.0.0.0"]
```

syntax=docker/dockerfile:1

FROM python:3.8-slim-buster
WORKDIR /python-docker
COPY requirements.txt requirements.txt
RUN pip3 install -r requirements.txt

COPY..



```
CMD [ "python3", "-m" , "flask", "run", "--host=0.0.0.0"]

if __name__ == "__main__":

app.run(debug=True)

docker build --tag python-docker .

docker images
```

REPOSITORY	TAG	IMAGE ID	CREATED	SIZE
python-docker	latest	cd52b70b361a	About an hour ago	912MB
headless-cms	latest	e8b253e230ee	43 hours ago	937MB
scrappy	latest	3e7ac0d44890	7 weeks ago	904MB
python	3.9.2	587b1bc803b3	7 months ago	885MB

docker run

docker run -d -p 5000:5000 python-docker

This time, we'll see the following output if we run it in detached mode and visit localhost at port 5000:



Hello from Flask & Docker

docker ps

The output is

```
CONTAINER ID IMAGE COMMAND CREATED STATUS a173935297cd python-docker "python3 -m flask ru..." 5 minutes ago Up 5 minut
```

To stop the currently running container, we execute this command:

```
docker stop <container-name>

docker container prune
```

It removes unused resources, freeing up space and keeping your system clean.

And that's it!