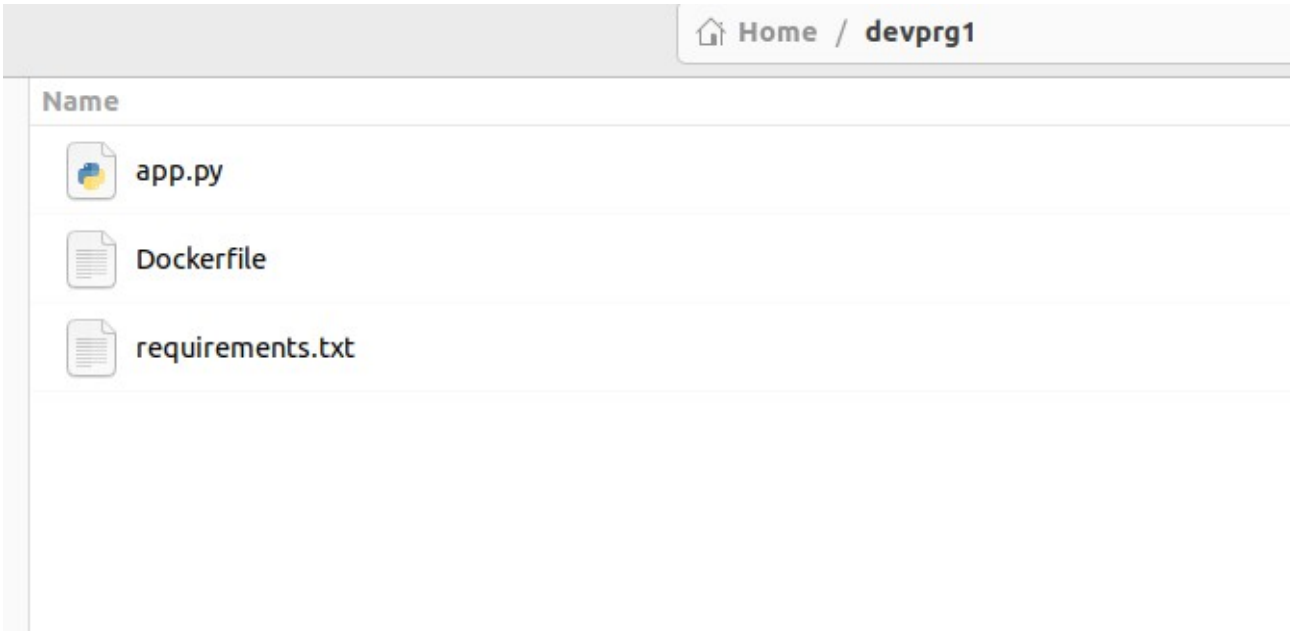
Devops Lab Program 1 : Build a Docker Container from a custom docker file

Folder Structure :



Python file (app.py) :

```
1RV24MC108_SWASTHIK_DEVADIGA@swasthik-Inspiron-15-3515:~/devprg1$ cat app.py
from flask import Flask
app=Flask(__name__)

@app.route("/")
def hello():
        return "Hello Docker"

if __name__=="__main__":
        app.run(host='0.0.0.0',port=5000)

1RV24MC108_SWASTHIK_DEVADIGA@swasthik-Inspiron-15-3515:~/devprg1$
```

create app.py and write code python and save it.

Dockerfile

Create Dockerfile and write these code

Next Step : build the image and run the container

To build the image run this command :

docker build -t lab1 .

To create and run the container :

docker run -it p 5000:5000 lab1

```
1RV24MC108_SWASTHIK_DEVADIGA@swasthik-Inspiron-15-3515:~/devprg1$ docker build -t lab1 .
[+] Building 2.3s (10/10) FINISHED
 => [internal] load build definition from Dockerfile
 => => transferring dockerfile: 386B
 => [internal] load metadata for docker.io/library/python:3.9-slim
 => [internal] load .dockerignore
 => => transferring context: 2B
 => [1/5] FROM docker.io/library/python:3.9-slim@sha256:545badebace9a958b98d3e272f0f0d46c0a1a389ac77e24c33f2e7b548ce1b6b
 => [internal] load build context
 => => transferring context: 447B
 => CACHED [2/5] WORKDIR /app
 => CACHED [3/5] COPY requirements.txt ./
 => CACHED [4/5] RUN pip install -r requirements.txt
 => CACHED [5/5] COPY . .
 => exporting to image
 => => exporting layers
 => => writing image sha256:94ce1ac06ea5a638bb139cab681d5d9ba98f402ad3c68bd3c3f442afb026f86f
 => => naming to docker.io/library/lab1
1RV24MC108_SWASTHIK_DEVADIGA@swasthik-Inspiron-15-3515:~/devprg1$ docker run -it -p 5000:5000 lab1
 * Serving Flask app 'app.py'
 * Debug mode: off
WARNING: This is a development server. Do not use it in a production deployment. Use a production WSGI server instead.
 * Running on all addresses (0.0.0.0)
 * Running on http://127.0.0.1:5000
 * Running on http://172.18.0.2:5000
Press CTRL+C to quit
```