

# Homework #3 Proof that it works (Late)

Here I show how I set up the docker image for the **hw3large**:

```
metens@cloudshell:~/CS530/cloud-metens-metens/hw3 (cloud-metens)$ ls
Dockerfile.large Dockerfile.small hw2 screenshots.pdf
metens@cloudshell:~/CS530/cloud-metens-metens/hw3 (cloud-metens)$ ls
Dockerfile.large Dockerfile.small hw2 screenshots.pdf
metens@cloudshell:~/CS530/cloud-metens-metens/hw3 (cloud-metens)$ docker build -f Dockerfile.large -t nmetens/hw3large .
[+] Building 4.1s (11/11) FINISHED
--> [internal] load build definition from Dockerfile.large
--> transferring dockerfile: 486B
--> [internal] load metadata for docker.io/library/ubuntu:20.04
--> [internal] load .dockerignore
--> transferring context: 2B
--> [internal] load build context
--> transferring files: 1.50KB
--> [1/5] FROM docker.io/library/ubuntu:20.04@sha256:8e5c4f0285ecbb4ead070431d29b576a530d3166df73ec44affclcd27555141b
--> CACHED [2/6] RUN apt-get update -y
--> CACHED [3/6] RUN apt-get install -y python3-pip curl
--> CACHED [4/6] WORKDIR /app
--> [5/6] COPY ./hw2 /app
--> [6/6] RUN pip install -r requirements.txt
--> exporting to image
--> exporting layers
--> writing image sha256:032a7cc0c4ed78a4ffdbe0367f5d7795a7e7a3a5c3d9b4825da43be6612a949f
--> naming to docker.io/nmetens/hw3large
metens@cloudshell:~/CS530/cloud-metens-metens/hw3 (cloud-metens)$ docker images
REPOSITORY          TAG      IMAGE ID            CREATED             SIZE
nmetens/hw3large    latest   6efffd0d3c8b    11 seconds ago   458MB
<none>              <none>   6efffd0d3c8b    5 minutes ago   458MB
<none>              <none>   blbb6942aldo   14 minutes ago   458MB
metens@cloudshell:~/CS530/cloud-metens-metens/hw3 (cloud-metens)$ docker ps
CONTAINER ID        IMAGE               COMMAND             CREATED            STATUS              PORTS               NAMES
metens@cloudshell:~/CS530/cloud-metens-metens/hw3 (cloud-metens)$ docker ps -a
CONTAINER ID        IMAGE               COMMAND             CREATED            STATUS              PORTS               NAMES
4cafbecd05d0        6efffd0d3c8b   "python3 app.py"   2 minutes ago     Exited (0) About a minute ago           serene_kepler

metens@cloudshell:~/CS530/cloud-metens-metens/hw3 (cloud-metens)$ docker run -it -p 8000:8000 nmetens/hw3large
* Serving Flask app 'app'
* Debug mode: on
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://127.0.0.1:8000
* Running on http://172.17.0.2:8000
Press CTRL+C to quit
* Restarting with stat
* Debugger is active!
* Debugger PIN: 772-906-157
172.17.0.1 - - [13/Nov/2024 04:30:27] "GET / HTTP/1.1" 200 -
```

Next, I opened a new terminal and performed curl and wget:

```
metens@cloudshell:~/CS530/cloud-metens-metens/hw3 (cloud-metens)$ ls
Dockerfile.large Dockerfile.small file_for_curl file_for_wget hw2 index.html screenshots.pdf
metens@cloudshell:~/CS530/cloud-metens-metens/hw3 (cloud-metens)$ wget http://localhost:8000
--2024-11-13 04:36:11-- http://localhost:8000/
Resolving localhost (localhost)... 127.0.0.1, ::1
Connecting to localhost (localhost)|127.0.0.1:8000... connected.
HTTP request sent, awaiting response... 200 OK
Length: 659 [text/html]
Saving to: 'index.html.1'

index.html.1                                              [  0%]  659 --.-KB/s  in 0s
2024-11-13 04:36:11 (65.5 MB/s) - 'index.html.1' saved [659/659]

metens@cloudshell:~/CS530/cloud-metens-metens/hw3 (cloud-metens)$ curl http://localhost:8000
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Song Submission Form</title>
  <link rel="stylesheet" type="text/css" href="/static/styles.css">
</head>
<body>
  <div>

    <h1>Songs in the database</h1>
    <!-- Redirect to the sign.html page: -->
    <a href="/sign"><h3>Enter a new song</h3></a>
    <!-- Redirect to the update.html page: -->
    <a href="/update"><h3>Remove a song</h3></a>

    <!-- For every song in the songs database (passed in by the
    songs dictionary list in index.py), display all the song
    information: -->
    <h2>Songs:</h2>

  </div>
</body>
</html>metens@cloudshell:~/CS530/cloud-metens-metens/hw3 (cloud-metens)$
```

Both of the outputs are saved in files '**file\_for\_curl**' and '**file\_for\_wget**' respectively. You can view both with a `cat file_for_<curl or wget>`.

Here is the setup for the **hw3small**: