

Python flask app with cats

Dockerfile

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Dockerfile - Flask_Docker - Visual Studio Code

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EXPLORER
  FLASK...
    templates
      index.html
    app.py
    Dockerfile
    requirements.txt

Dockerfile
1  # our base image
2  FROM alpine:3.5
3  # Install python and pip
4  RUN apk add --update py2-pip
5  # upgrade pip
6  RUN pip install --upgrade pip
7  # install Python modules needed by the Python app
8  COPY requirements.txt /usr/src/app/
9  RUN pip install --no-cache-dir -r /usr/src/app/requirements.txt
10 # copy files required for the app to run
11 COPY app.py /usr/src/app/
12 COPY templates/index.html /usr/src/app/templates/
13 # tell the port number the container should expose
14 EXPOSE 5000
15 # run the application
16 CMD ["python", "/usr/src/app/app.py"]
```

app.py

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app.py - Flask_Docker - Visual Studio Code

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EXPLORER
  FLASK_DOCKER
    templates
      index.html
    app.py
    Dockerfile
    requirements.txt

app.py
1  from flask import Flask, render_template
2  import random
3
4  app = Flask(__name__)
5
6  # list of cat images
7  images = [
8      "https://images.saymedia-content.com/.image/c_limit%2Ccs_srgb%2Cq_auto:eco%2Cw_760/MT",
9      "https://i.pinimg.com/736x/54/f7/48/54f74884dca10f350ce2e445a5c454c8.jpg"
10 ]
11
12 @app.route('/')
13 def index():
14     url = random.choice(images)
15     return render_template('index.html', url=url)
16
17 if __name__ == "__main__":
18     app.run(host="0.0.0.0")
19
```

index.html

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index.html - Flask_Docker - Visual Studio Code

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EXPLORER
  FLASK...
    templates
      index.html
    app.py
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templates > index.html > html
1  <html>
2  <head>
3  <style type="text/css">
4  body {
5  background: black;
6  color: white;
7  }
8  div.container {
9  max-width: 500px;
10 margin: 100px auto;
11 border: 20px solid white;
12 padding: 10px;
13 text-align: center;
14 }
15 h4 {
16 text-transform: uppercase;
17 }
18 </style>
19 </head>
20 <body>
21 <div class="container">
22 <h4>Cat Gif of the day</h4>
23 
24 <p><small>Courtesy: <a href="http://www.buzzfeed.com/copyranter/the-best-cat-gif-post-in-
25 </div>
26 </body>
27 </html>
```

requirements.txt

Flask==0.10.1

docker build -t mycatapp:1.0 .

```
Flask_Docker : bash — Konsole
Файл  Правка  Вид  Закладки  Модули  Настройка  Справка
nazar@nazar-Modern-15:~/Docker/Flask_Docker$
nazar@nazar-Modern-15:~/Docker/Flask_Docker$
nazar@nazar-Modern-15:~/Docker/Flask_Docker$ sudo docker build -t mycatapp:1.0 .
[+] Building 1.4s (12/12) FINISHED                                docker:default
=> [internal] load .dockerignore                                0.0s
=> => transferring context: 2B                                    0.0s
=> [internal] load build definition from Dockerfile              0.0s
=> => transferring dockerfile: 559B                               0.0s
=> [internal] load metadata for docker.io/library/alpine:3.5    1.2s
=> [internal] load build context                                0.0s
=> => transferring context: 654B                                   0.0s
=> [1/7] FROM docker.io/library/alpine:3.5@sha256:66952b313e51c3bd1987d7c4ddf5dba9bc0fb6e524eed2448fa6 0.0s
=> CACHED [2/7] RUN apk add --update py2-pip                    0.0s
=> CACHED [3/7] RUN pip install --upgrade pip                   0.0s
=> CACHED [4/7] COPY requirements.txt /usr/src/app/              0.0s
=> CACHED [5/7] RUN pip install --no-cache-dir -r /usr/src/app/requirements.txt 0.0s
=> [6/7] COPY app.py /usr/src/app/                              0.0s
=> [7/7] COPY templates/index.html /usr/src/app/templates/     0.0s
=> exporting to image                                           0.0s
=> => exporting layers                                           0.0s
=> => writing image sha256:d1d9ada1220bfd10221070c26db36f0bc676acd6982d49c5c0e051b319dc6b12 0.0s
=> => naming to docker.io/library/mycatapp:1.0                 0.0s
nazar@nazar-Modern-15:~/Docker/Flask_Docker$
nazar@nazar-Modern-15:~/Docker/Flask_Docker$
nazar@nazar-Modern-15:~/Docker/Flask_Docker$
nazar@nazar-Modern-15:~/Docker/Flask_Docker$
nazar@nazar-Modern-15:~/Docker/Flask_Docker$
```

```
nazar@nazar-Modern-15:~/Docker/Flask_Docker$
nazar@nazar-Modern-15:~/Docker/Flask_Docker$ sudo docker images
REPOSITORY      TAG          IMAGE ID       CREATED        SIZE
mycatapp        1.0         d1d9ada1220b   31 seconds ago 67.4MB
```

```
nazar@nazar-Modern-15:~/Docker/Flask_Docker$
nazar@nazar-Modern-15:~/Docker/Flask_Docker$ sudo docker run -p 7777:5000 --name container_with_cats mycatapp:
1.0
* Running on http://0.0.0.0:5000/ (Press CTRL+C to quit)
```

Result:

