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«САНКТ-ПЕТЕРБУРГСКИЙ НАЦИОНАЛЬНЫЙ ИССЛЕДОВАТЕЛЬСКИЙ  
УНИВЕРСИТЕТ ИТМО»  
Факультет среднего профессионального образования

ОТЧЁТ  
ПО ПРАКТИЧЕСКОЙ РАБОТЕ № 4  
по теме: Докер  
по дисциплине: Учебная практика

Специальность 09.02.07 Информационные системы и программирование

Проверил:  
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Оценка \_\_\_\_\_

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## DOKERFILE

```
FROM python:3.6
ENV PYTHONUNBUFFERED 1
RUN mkdir /usr/src/app
WORKDIR /usr/src/app
RUN mkdir -p /var/log/platform_admin
COPY . /usr/src/app/
RUN pip install -r requirements.txt
RUN python manage.py makemigrations
RUN python manage.py migrate
```

## DOKER-COMPOSE.YML

```
version: '3'
services:
  gas:
    restart: always
    build:
      context: ./
      dockerfile: DockerFile
    container_name: Admin
    command: python3 manage.py runserver 0.0.0.0:6000
    volumes:
      - ../usr/src/app
    environment:
      IN_DOCKER: 1
    ports:
      - "6000:6000"
```

# REQUIREMENT.TXT

Django

Pillow

```
aleksei@amironov:~/MyProject$ docker-compose up
Creating network "myproject_default" with the default driver
Building gas
Step 1/9 : FROM python:3.6
3.6: Pulling from library/python
e9afc4f90ab0: Pull complete
989e6b19a265: Pull complete
af14b6c2f878: Pull complete
5573c4b30949: Pull complete
11a88e764313: Pull complete
5fbfb8c90ca7: Pull complete
c16af6e4f0db: Pull complete
8838231db662: Pull complete
418c773724ce: Pull complete
Digest: sha256:6655d57ae9272f09839a25d0ec0d272513663d99a4ad7af8b061c83a76d10295
Status: Downloaded newer image for python:3.6
----> 13efce2de907
Step 2/9 : ENV PYTHONUNBUFFERED 1
----> Running in 30ca2a7eaa65
Removing intermediate container 30ca2a7eaa65
----> 42674b2dec6f
Step 3/9 : RUN mkdir /usr/src/app
----> Running in b3b46f2f5a02
Removing intermediate container b3b46f2f5a02
----> 519809c9e766
Step 4/9 : WORKDIR /usr/src/app
----> Running in 7415039430de
Removing intermediate container 7415039430de
----> 91b5bf8e136c
Step 5/9 : RUN mkdir -p /var/log/platform_admin
----> Running in c9df840d2291
Removing intermediate container c9df840d2291
----> b461a714960f
Step 6/9 : COPY . /usr/src/app/
----> 145fe918c03d
Step 7/9 : RUN pip install -r requirements.txt
----> Running in 26e2d49b7864
Collecting Django
  Downloading Django-3.0.7-py3-none-any.whl (7.5 MB)
Collecting Pillow
  Downloading Pillow-7.1.2-cp36-cp36m-manylinux1_x86_64.whl (2.1 MB)
Collecting sqlparse<=0.2.2
  Downloading sqlparse-0.3.1-py2.py3-none-any.whl (40 kB)
Collecting asgiref<=3.2
  Downloading asgiref-3.2.10-py3-none-any.whl (19 kB)
Collecting pytz
  Downloading pytz-2020.1-py2.py3-none-any.whl (510 kB)
Installing collected packages: sqlparse, asgiref, pytz, Django, Pillow
Successfully installed Django-3.0.7 Pillow-7.1.2 asgiref-3.2.10 pytz-2020.1 sqlparse-0.3.1
Removing intermediate container 26e2d49b7864
----> ca960c15e2d2
Step 8/9 : RUN python /usr/src/app/auto_blog/manage.py makemigrations
----> Running in 6dc8015e109f
No changes detected
Removing intermediate container 6dc8015e109f
----> 60a559f8bc94
Step 9/9 : RUN python /usr/src/app/auto_blog/manage.py migrate
----> Running in c0fdff74315d
Operations to perform:
  Apply all migrations: admin, auth, contenttypes, sessions
Running migrations:
  No migrations to apply.
Removing intermediate container c0fdff74315d
----> 225b9ae70b89
Successfully built 225b9ae70b89
Successfully tagged myproject gas:latest
WARNING: Image for service gas was built because it did not already exist. To rebuild this image you must use `docker-compose build` or `docker-comp
ose up --build`.
Creating Admin ... done
Attaching to Admin
Admin | Watching for file changes with StatReloader
Admin | Performing system checks...
Admin |
Admin | System check identified no issues (0 silenced).
Admin | June 30, 2020 - 07:30:00
Admin | Django version 3.0.7, using settings 'auto_blog.settings'
Admin | Starting development server at http://0.0.0.0:8000/
Admin | Quit the server with CONTROL-C.
```

Рисунок 1 – работа команды docker-compose up

```
aleksei@amironov:~$ docker ps
CONTAINER ID   IMAGE          COMMAND                  CREATED        STATUS        PORTS                    NAMES
ba8d0d474bc2   myproject_gas  "python3 /usr/src/ap..." About a minute Up About a minute    0.0.0.0:8000->8000/tcp   Admin
aleksei@amironov:~$
```

*Рисунок 2 – работа команды docker ps*