Section Quick Start

Lecture Basic Python Runtime Environment in Docker

Links:

- https://hub.docker.com/ /python
- https://github.com/d4py/d4py
- https://pypi.org/project/Django/

Commands:

```
$ docker run -it --name mypython1 -p 5000:5000 -p 8000:8000 -v
${PWD}:/app python:3.7 bash
$ docker start -ia mypython1
$ docker rm mypython1
$ cd d4py/section-3/basic-env
$ atom .
$ docker run -it --name myflask1 -p 5000:5000 -v ${PWD}:/app
python:3.7 bash
# python
>>> exit()
# pip install flask==1.1.1
# cd /app
# 1s
# more flask example.py
# export FLASK APP=flask example.py
# export FLASK DEBUG=1
# flask run --host=0.0.0.0
# exit
$ docker run -it --name mydjangol -p 8000:8000 -v ${PWD}:/app
python:3.8 bash
# pip install django==2.2.6
# cd /app
# django-admin startproject testsite
```

```
# ls -1
# cd testsite
# python manage.py runserver 0:8000
# python manage.py startapp app1
# ls -1
$ sudo chown -R kris:kris testsite
In app1/views.py:
from django.http import HttpResponse
def index(request):
    return HttpResponse("Hello World! I run in a Python Runtime
Container! ")
In app1/urls.py:
from django.urls import path
from . import views
urlpatterns = [
    path('', views.index, name='index'),
]
In testsite/urls.py:
from django.urls import path, include
. . .
    path('', include('app1.urls')),
```

```
# python manage.py migrate
# python manage.py runserver 0:8000
# exit
$ docker run -it --name mydjango-beta -p 8000:8000 -v ${PWD}:/app
python:3.8 bash
# pip install django==3.0b1
# cd /app/testsite
# python manage.py runserver 0:8000
# exit
$ docker start -ia mydjango1
# cd /app/testsite
# python manage.py runserver 0:8000
# exit
$ docker start -ia mydjango1# docker rm mydjango-beta
```