

10/09/2018 – Giacomo De Liberali, 580595

# ADVANCED SOFTWARE ENGINEERING – HOMEWORK 1

## 1. GITHUB REPOSITORY

The repository is published on github.com at this link:

- [https://github.com/giacomodeliberali/adv-software-engineering/tree/master/Homework\\_1](https://github.com/giacomodeliberali/adv-software-engineering/tree/master/Homework_1)

It is placed in a common repository containing also all the lab sections.

## 2. PYTEST RESULT

The pytest completes successfully, even if a warning is raised into one app's dependency.

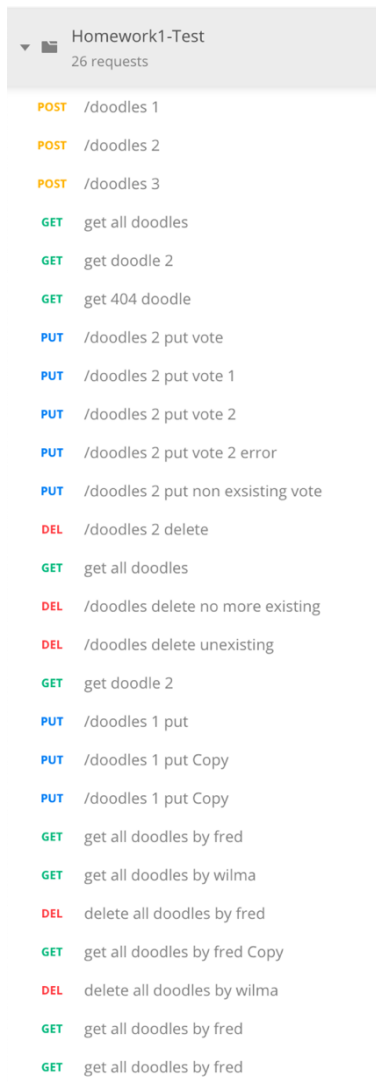
```
Homework_1 — -bash — 174x34
Last login: Mon Oct  8 20:56:53 on ttys000
host-131-114-215-46:~ giacomodeliberali$ cd ~/code/unipi/adv-software-engineering/Homework_1/
host-131-114-215-46:Homework_1 giacomodeliberali$ pytest
===== test session starts =====
platform darwin -- Python 3.6.4, pytest-3.8.2, py-1.6.0, pluggy-0.7.1
rootdir: /Users/giacomodeliberali/code/unipi/adv-software-engineering/Homework_1, inifile:
collected 3 items

myservice/tests/test_doodle.py ... [100%]

===== warnings summary =====
/usr/local/lib/python3.6/site-packages/flask/app.py:2305: PytestWarning: cannot collect 'tested_app' because it is not a function.
  def __call__(self, environ, start_response):

-- Docs: https://docs.pytest.org/en/latest/warnings.html
===== 3 passed, 1 warnings in 0.25 seconds =====
host-131-114-215-46:Homework_1 giacomodeliberali$
```

### 3. POSTMAN TESTS



I created a Postman collection containing all the request included in the “tests/test\_doodle.py”. The exported collection can be found in the root of the repository, it’s a JSON file named “*Homework1-Test.postman\_collection.json*”

For every request I also have included Postman tests following the expectations of the python test cases, verifying both response status code and optional body response.

The Postman test results file is exported in the root of the repository in a file named “*Homework1-Test.postman\_test\_run.json*”.

An example of Postman test case is the following, which is executed automatically by Postman after the request has been completed:

```
1. pm.test("Winners should be 2", function () {
2.     var jsonData = pm.response.json();
3.     pm.expect(jsonData.winners.length).to.eql(2);
4. });
5.
6. pm.test("Winners[0] = 1", function () {
7.     var jsonData = pm.response.json();
8.     pm.expect(jsonData.winners[0]).to.eql("1");
9. });
10.
11. pm.test("Status code is 200", function () {
12.     pm.response.to.have.status(200);
13. });
```

The following images represent the result of the collection run: each line is an http request and all the indented squares are the postman tests per request.

31 PASSED	0 FAILED	Homework1-Test	No Environment
just now			
Iteration 1			
POST	/doodles 1	http://127.0.0.1:5000/do...	Homework1-Test / /doodles 1
			200 OK 18 ms 17 B
PASS	Pollnumber should be 1		
POST	/doodles 2	http://127.0.0.1:5000/do...	Homework1-Test / /doodles 2
			200 OK 6 ms 17 B
PASS	Pollnumber should be 2		
POST	/doodles 3	http://127.0.0.1:5000/do...	Homework1-Test / /doodles 3
			200 OK 4 ms 17 B
PASS	Pollnumber should be 3		
GET	get all doodles	http://127.0.0.1:5000/do...	Homework1-Test / get all doodles
			200 OK 10 ms 258 B
PASS	Should get the three doodles		
GET	get doodle 2	http://127.0.0.1:5000/do...	Homework1-Test / get doodle 2
			200 OK 7 ms 71 B
PASS	Should get the doodle 2 id		
PASS	Should get the doodle 2 title		
GET	get 404 doodle	http://127.0.0.1:5000/do...	Homework1-Test / get 404 doodle
			404 NOT FOUND 3 ms 300 B
PASS	Status code is 404		
PUT	/doodles 2 put vote	http://127.0.0.1:5000/do...	...ework1-Test / /doodles 2 put vote
			200 OK 4 ms 18 B
PASS	Pollnumber should be 2		
PUT	/doodles 2 put vote 1	http://127.0.0.1:5000/do...	...ork1-Test / /doodles 2 put vote 1
			200 OK 4 ms 22 B
PASS	Winners should be 2		
PASS	Winners[0] = 1		
PASS	Winners[0] = 2		
PUT	/doodles 2 put vote 2	http://127.0.0.1:5000/do...	...ork1-Test / /doodles 2 put vote 2
			200 OK 4 ms 18 B
PASS	Winners should be 1		
PASS	Winners[0] = 1		
PUT	/doodles 2 put vote 2 error	http://127.0.0.1:5000/do...	...rk1-Test / /doodles 2 put vote 2 error
			400 BAD REQUEST 4 ms 212 B
PASS	Status code is 400		
PUT	/doodles 2 put non existing vote	http://127.0.0.1:5000/do...	... /doodles 2 put non existing vote
			400 BAD REQUEST 4 ms 212 B
PASS	Status code is 400		
PUT	/doodles 1 put	http://127.0.0.1:5000/do...	Homework1-Test / /doodles 1 put
			200 OK 3 ms 18 B
PASS	Pollnumber should be 2		
PUT	/doodles 1 put Copy	http://127.0.0.1:5000/do...	...work1-Test / /doodles 1 put Copy
			200 OK 3 ms 22 B
PASS	Winners should be 2		
PUT	/doodles 1 put Copy	http://127.0.0.1:5000/do...	...work1-Test / /doodles 1 put Copy
			200 OK 2 ms 18 B
PASS	Winners should be 1		
GET	get all doodles by fred	http://127.0.0.1:5000/do...	...ork1-Test / get all doodles by fred
			200 OK 3 ms 27 B
PASS	Should get the 2 doodles		
GET	get all doodles by wilma	http://127.0.0.1:5000/do...	...rk1-Test / get all doodles by wilma
			200 OK 2 ms 20 B
PASS	Should get the 2 doodles		
DELETE	delete all doodles by fred	http://127.0.0.1:5000/do...	...1-Test / delete all doodles by fred
			200 OK 2 ms 17 B
PASS	Should delete		
GET	get all doodles by fred Copy	http://127.0.0.1:5000/do...	...Test / get all doodles by fred Copy
			200 OK 3 ms 20 B
PASS	Should be empty		
DELETE	delete all doodles by wilma	http://127.0.0.1:5000/do...	...-Test / delete all doodles by wilma
			200 OK 3 ms 18 B
PASS	Should delete		
GET	get all doodles by fred	http://127.0.0.1:5000/do...	...ork1-Test / get all doodles by fred
			404 NOT FOUND 2 ms 300 B
PASS	Status code is 404		
GET	get all doodles by fred	http://127.0.0.1:5000/do...	...ork1-Test / get all doodles by fred
			410 GONE 5 ms 403 B
PASS	Status code is 410		