

GitHub: <https://github.com/a-liut/ase-fall-18>

Description:

The `_ACTIVEPOLLS` dictionary contains all the Poll objects and represents active polls. The dictionary itself and the `_POLLNUMBER` counter guarantee the uniqueness of the polls.

1. *all_polls()*: handles operations over the entire collection of polls. It implements `/doodles` endpoint handling the following HTTP methods:
 - a. GET: returns the list of currently active polls
 - b. POST: create a new poll reading data from the JSON body of the request and add the new object to the `_ACTIVEPOLLS` dictionary using the `_POLLNUMBER` counter as index.
2. *single_poll(id)*: handles operations on a single poll. The endpoint decoration converts the id into an integer and allow the following HTTP methods:
 - a. GET: simply returns the JSON representation of the poll at position *id* in the `_ACTIVEPOLLS` dictionary.
 - b. DELETE: removes from the `_ACTIVE_POLLS` dictionary the poll at position *id* using *pop* method.
 - c. PUT: handles the vote operation on a specific poll implemented by the function *vote* which simply read from the request the person who vote and the option and update the Poll instance. If the option doesn't exist, a `NonExistingOptionException` is thrown and the service reply with status code 400, as the client invalid data to be processed by the service.
3. *person_poll(id, person)*: handles operations over a poll done by a person. The endpoint decoration converts *id* to an integer and the person identifier as a string. The allowed HTTP methods are:
 - a. GET: returns a (jsonified) dictionary with the voted options by the selected person
 - b. DELETE: returns a (jsonified) dictionary whose key `'removed'` is set to `True` whether the votes of the selected person have been removed.

Pytest result:

```
(venv) host-131-114-212-175:doodle aliut$ pytest
===== test session starts =====
platform darwin -- Python 3.7.0, pytest-3.8.2, py-1.6.0, pluggy-0.7.1
rootdir: /Users/aliut/Downloads/Università/ASE/Homeworks/HW1/doodle, inifile:
collected 3 items

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

===== warnings summary =====
/Users/aliut/Downloads/Università/ASE/Homeworks/HW1/doodle/venv/lib/python3.7/site-packages/werkzeug/datastructures.py:16: DeprecationWarning: Using or importing the ABCs from 'collections' instead of from 'collections.abc' is deprecated, and in 3.8 it will stop working
    from collections import Container, Iterable, MutableSet
/Users/aliut/Downloads/Università/ASE/Homeworks/HW1/doodle/venv/lib/python3.7/site-packages/werkzeug/datastructures.py:16: DeprecationWarning: Using or importing the ABCs from 'collections' instead of from 'collections.abc' is deprecated, and in 3.8 it will stop working
    from collections import Container, Iterable, MutableSet
/Users/aliut/Downloads/Università/ASE/Homeworks/HW1/doodle/venv/lib/python3.7/site-packages/markupsafe/_init_.py:13: DeprecationWarning: Using or importing the ABCs from 'collections' instead of from 'collections.abc' is deprecated, and in 3.8 it will stop working
    from collections import Mapping
/Users/aliut/Downloads/Università/ASE/Homeworks/HW1/doodle/venv/lib/python3.7/site-packages/jsonschema/compat.py:6: DeprecationWarning: Using or importing the ABCs from 'collections' instead of from 'collections.abc' is deprecated, and in 3.8 it will stop working
    from collections import MutableMapping, Sequence # noqa
/Users/aliut/Downloads/Università/ASE/Homeworks/HW1/doodle/venv/lib/python3.7/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, 5 warnings in 3.18 seconds =====
(venv) host-131-114-212-175:doodle aliut$
```

POST /doodles

New doodle

Examples (0)

POST

http://127.0.0.1:5000/doodles

Send

Save

Params

Authorization

Headers (1)

Body

Pre-request Script

Tests

Cookies

Code

form-data

x-www-form-urlencoded

raw

binary

JSON (application/json)

1 {

2 "title": "prova",

3 "options": ["mon", "tue", "wed"]

4 }

Body

Cookies

Headers (4)

Test Results

Status: 200 OK

Time: 8 ms

Size: 163 B

Save

Download

Pretty

Raw

Preview

JSON

1 {

2 "pollnumber": 1

3 }

GET /doodles/<id>

► Get a poll

GET Send Save

Params Authorization Headers Body Pre-request Script Tests Cookies Code

| KEY | VALUE | DESCRIPTION | ... | Bulk Edit |
|-----|-------|-------------|-----|-----------|
| Key | Value | Description | | |

Body Cookies Headers (4) Test Results Status: 200 OK Time: 5 ms Size: 240 B Save Download

Pretty Raw Preview JSON

```
1 {
2   "id": 1,
3   "options": {
4     "mon": [],
5     "tue": [],
6     "wed": []
7   },
8   "title": "prova",
9   "winners": [
10    "mon",
11    "tue",
12    "wed"
13  ]
14 }
```

PUT /doodles/<id>

► Vote in a poll

PUT Send Save

Params Authorization Headers (1) Body Pre-request Script Tests Cookies Code

| KEY | VALUE | DESCRIPTION | ... | Bulk Edit |
|-----|-------|-------------|-----|-----------|
| Key | Value | Description | | |

Body Cookies Headers (4) Test Results Status: 200 OK Time: 11 ms Size: 166 B Save Download

Pretty Raw Preview JSON

```
1 {
2   "winners": [
3     "tue"
4   ]
5 }
```

GET /doodles/<id>/<person>

► Get voted options

GET Send Save

Params Authorization Headers Body Pre-request Script Tests Cookies Code

| KEY | VALUE | DESCRIPTION | ... | Bulk Edit |
|-----|-------|-------------|-----|-----------|
| Key | Value | Description | | |

Body Cookies Headers (4) Test Results Status: 200 OK Time: 10 ms Size: 171 B Save Download

Pretty Raw Preview JSON

```
1 {
2   "votedoptions": [
3     "tue"
4   ]
5 }
```

DELETE /doodles/<id>/<person>

Delete voted options

DELETE Send Save

Params Authorization Headers Body Pre-request Script Tests Cookies Code

| KEY | VALUE | DESCRIPTION | ... | Bulk Edit |
|-----|-------|-------------|-----|-----------|
| Key | Value | Description | | |

Body Cookies Headers (4) Test Results Status: 200 OK Time: 7 ms Size: 163 B Save Download

Pretty Raw Preview JSON

```
1 {
2   "removed": true
3 }
```

GET /doodles

GET Send Save

Body Cookies Headers (4) Test Results Status: 200 OK Time: 8 ms Size: 352 B Save Download

Pretty Raw Preview JSON

```
1 {
2   "activepolls": [
3     {
4       "id": 1,
5       "options": {
6         "mon": ☐,
7         "tue": ☐,
8         "wed": ☐
9       },
10      "title": "prova",
11      "winners": [
12        "mon",
13        "tue",
14        "wed"
15      ]
16    },
17    {
18      "id": 2,
19      "options": {
20        "mon": ☐,
21        "tue": ☐,
22        "wed": ☐
23      },
24      "title": "test",
25      "winners": [
26        "mon",
27        "tue",
28        "wed"
29      ]
30    }
31  ]
32 }
```

DELETE /doodles/<id>

Delete a poll

DELETE Send Save

Params Authorization Headers Body Pre-request Script Tests Cookies Code

| KEY | VALUE | DESCRIPTION | ... | Bulk Edit |
|-----|-------|-------------|-----|-----------|
| Key | Value | Description | | |

Body Cookies Headers (4) Test Results Status: 200 OK Time: 8 ms Size: 166 B Save Download

Pretty Raw Preview JSON

```
1 {
2   "winners": [
3     "tue"
4   ]
5 }
```