Bedrock-a-Doodle   Andrea Liut
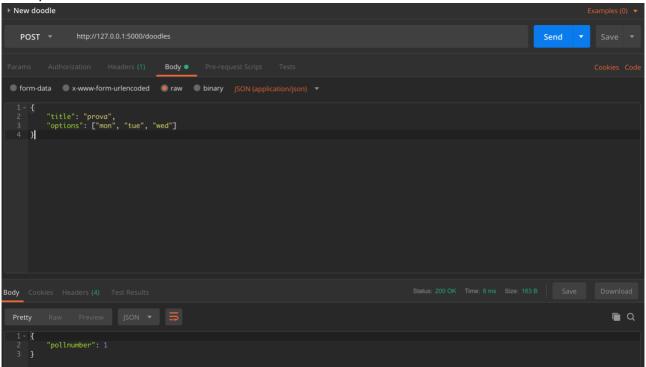
GitHub: https://github.com/a-liut/ase-fall-18

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.
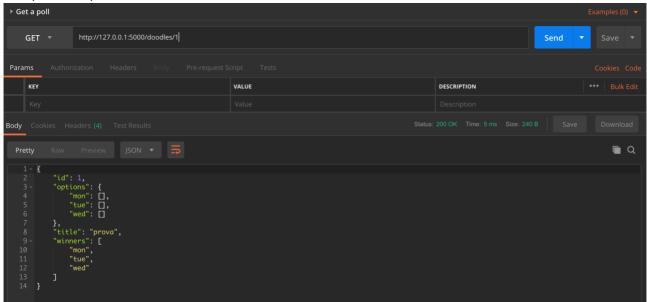
1. *all_polls()*: handles operations over the entire collection of polls. It implements '/doodles' endpoint handling the following HTTP methods:
    a. GET: returns the list of currently active polls
    b. POST: create a new poll reading data from the JSON body of the request and add the new object 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 422, as the client provided syntactically correct but 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.
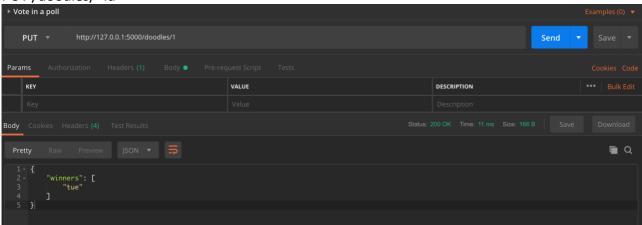
Pytest result:

```
(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: Deprecatio
nWarning: Using or importing the ABCs from 'collections' instead of from 'collections.abc' is deprecated, and in 3.8 it will stop wor
king
  from collections import Container, Iterable, MutableSet
/Users/aliut/Downloads/Università/ASE/Homeworks/HW1/doodle/venv/lib/python3.7/site-packages/werkzeug/datastructures.py:16: Deprecatio
nWarning: Using or importing the ABCs from 'collections' instead of from 'collections.abc' is deprecated, and in 3.8 it will stop wor
king
  from collections import Container, Iterable, MutableSet

/Users/aliut/Downloads/Università/ASE/Homeworks/HW1/doodle/venv/lib/python3.7/site-packages/markupsafe/__init__.py:13: DeprecationWar
ning: 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: DeprecationWarnin
g: 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

GET /doodles/<id>
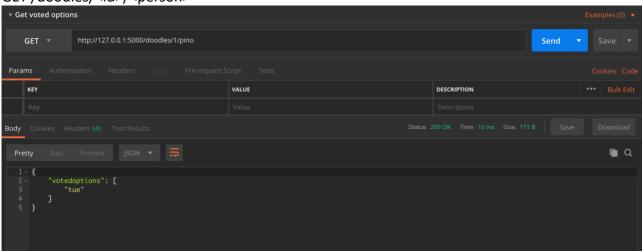

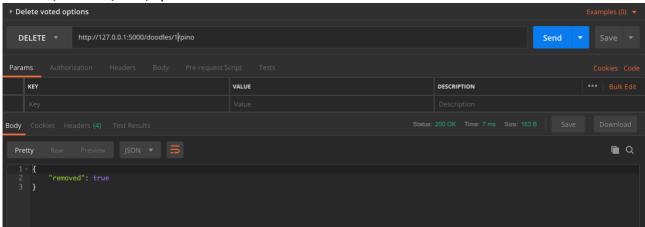## PUT /doodles/<id>

GET /doodles/<id>/<person>

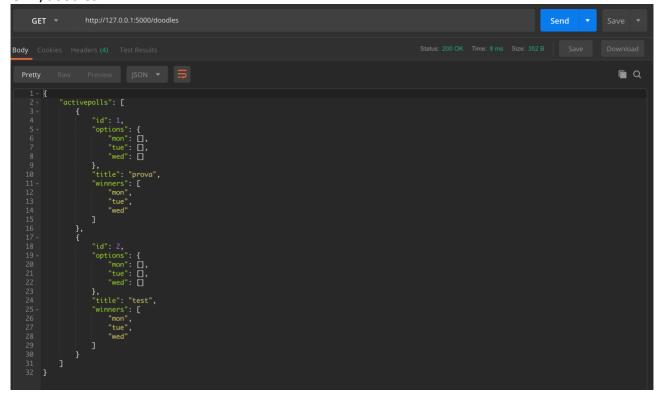## DELETE /doodles/<id>/<person>

GET /doodles

DELETE /doodles/<id>