

Bedrock a Party

Homework 1 – Advanced Software Engineering

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1 Introduction

The homework, called *Bedrock a party* aims to create a RESTful service to manage the parties and the supplies for the latter in Bedrock. In particular, it consists of the calling and handling of the functions in the blueprint file *parties.py*. This implies that most of the work requested was about reading and understanding the skeleton provided. Once the methods were fully understood, they were used following as close as possible the TODO comments which gave direction on what was necessary to code to complete the homework. Finally the program has been tested with the help of *pytest* using the *test_party.py* file and using *Postman* to run some test manually.

The zip contains this report and the *parties.py* file. If the images are not clear enough they will be in my github [repository](#) with the homework.

2 Tests

```
(venv) jager@ubuntu:~/Desktop/Python/Homework/bedrock_a_party/tests$ pytest
===== test session starts =====
platform linux -- Python 3.9.5, pytest-6.2.5, py-1.10.0, pluggy-1.0.0
rootdir: /home/jager/Desktop/Python/Homework, configfile: setup.cfg
plugins: cov-3.0.0
collected 2 items

test_party.py ..

===== warnings summary =====
../venv/lib/python3.9/site-packages/flask/json/_init_.py:31
/home/jager/Desktop/Python/Homework/venv/lib/python3.9/site-packages/flask/json/_init_.py:31: DeprecationWarning: Importing 'itsdangerous.json' is deprecated and will be removed in ItsDangerous 2.1. Use Python's 'json' module instead.
  _slash_escape = "\\" not in _json.dumps("/")

../venv/lib/python3.9/site-packages/flask/json/_init_.py:61
/home/jager/Desktop/Python/Homework/venv/lib/python3.9/site-packages/flask/json/_init_.py:61: DeprecationWarning: Importing 'itsdangerous.json' is deprecated and will be removed in ItsDangerous 2.1. Use Python's 'json' module instead.
  class JSONEncoder(_json.JSONEncoder):

../venv/lib/python3.9/site-packages/flask/json/_init_.py:103
/home/jager/Desktop/Python/Homework/venv/lib/python3.9/site-packages/flask/json/_init_.py:103: DeprecationWarning: Importing 'itsdangerous.json' is deprecated and will be removed in ItsDangerous 2.1. Use Python's 'json' module instead.
  class JSONDecoder(_json.JSONDecoder):

../venv/lib/python3.9/site-packages/flask/app.py:2459
/home/jager/Desktop/Python/Homework/venv/lib/python3.9/site-packages/flask/app.py:2459: PytestCollectionWarning: cannot collect 'tested_app' because it is not a function.
  def __call__(self, environ, start_response):

bedrock_a_party/tests/test_party.py:13 warnings
/home/jager/Desktop/Python/Homework/venv/lib/python3.9/site-packages/flask/json/_init_.py:211: DeprecationWarning: Importing 'itsdangerous.json' is deprecated and will be removed in ItsDangerous 2.1. Use Python's 'json' module instead.
  rv = _json.dumps(obj, **kwargs)

-- Docs: https://docs.pytest.org/en/stable/warnings.html

----- coverage: platform linux, python 3.9.5-final-0 -----
Name                               Stmts   Miss Branch BrPart  Cover   Missing
-----
/home/jager/Desktop/Python/Homework/bedrock_a_party/classes/party.py    64     18     10      2    84%   37, 31, 39-40, 62, 86, 99, 102, 107, 110
/home/jager/Desktop/Python/Homework/bedrock_a_party/views/parties.py     75      9     22      5    84%   26-27, 49, 66->69, 91-94, 106->109, 130, 139-140
TOTAL                                     191     19     32      7    87%

0 files skipped due to complete coverage.
Coverage HTML written to dir htmlcov
FAIL Required test coverage of 98% not reached. Total coverage: 87.44%

2 passed, 17 warnings in 0.49s
```

Figure 1: Pytest result.



Figure 2: Creating a party with no guests.

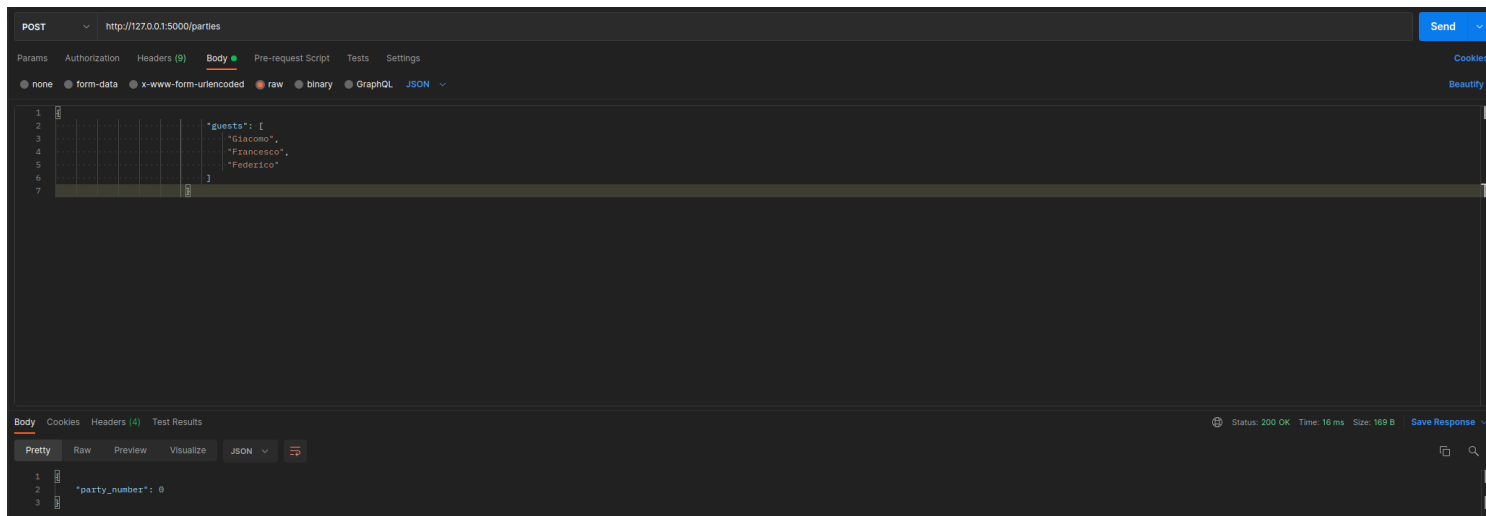


Figure 3: Creating a party.

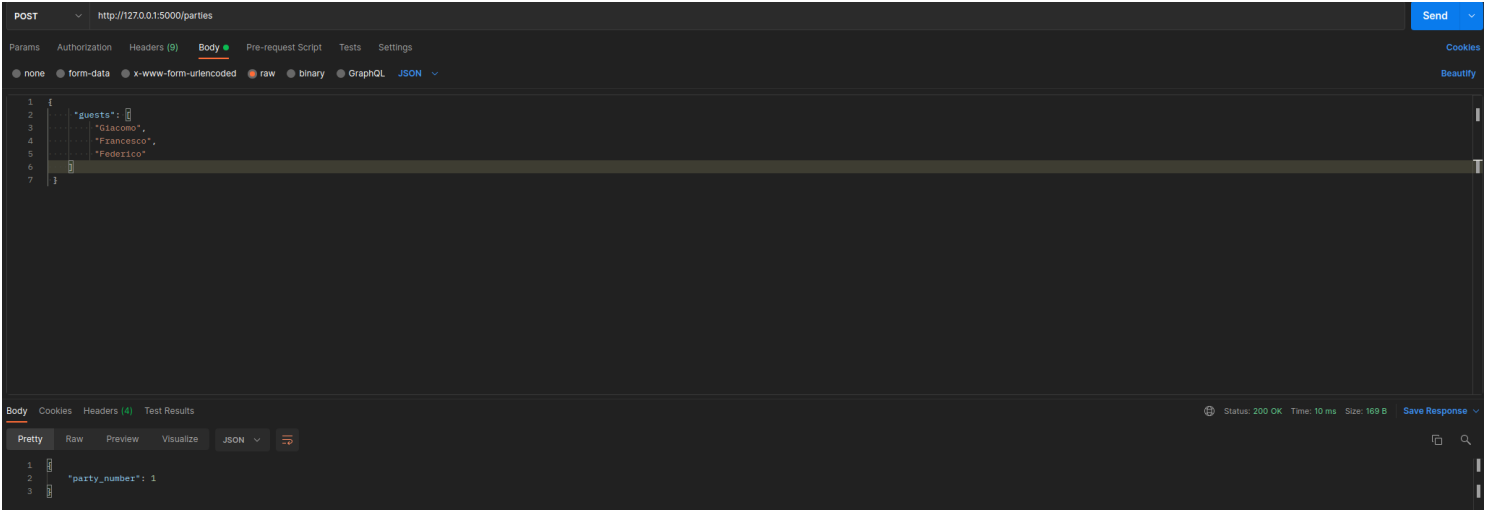


Figure 4: Creating a party.

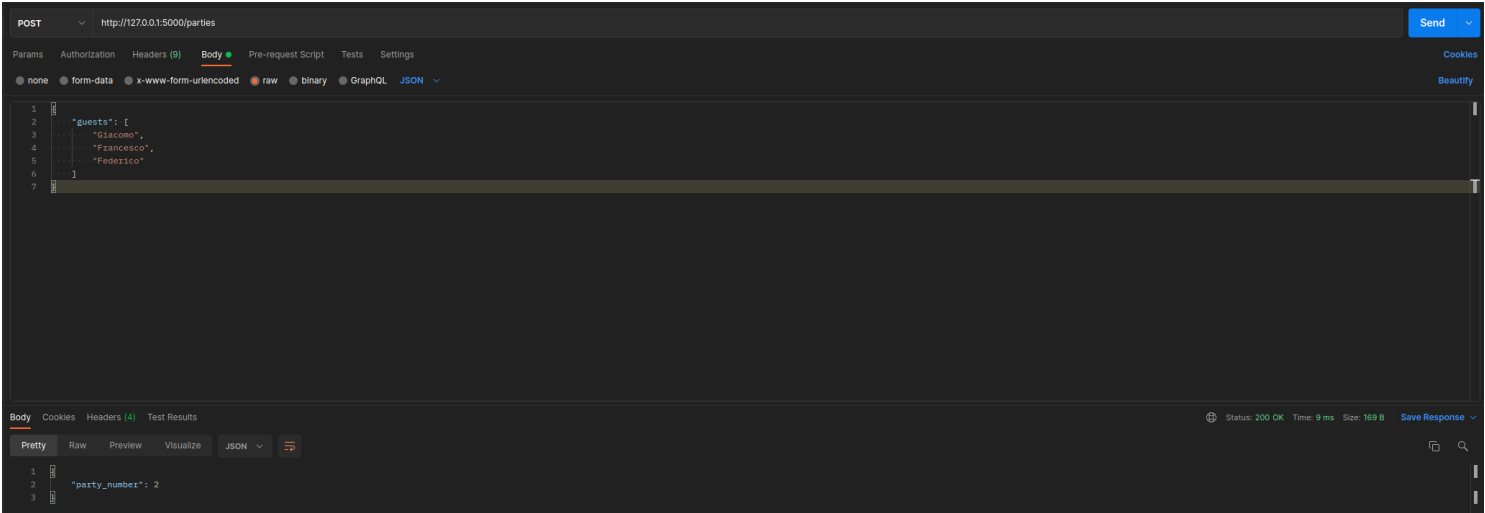


Figure 5: Creating a party.

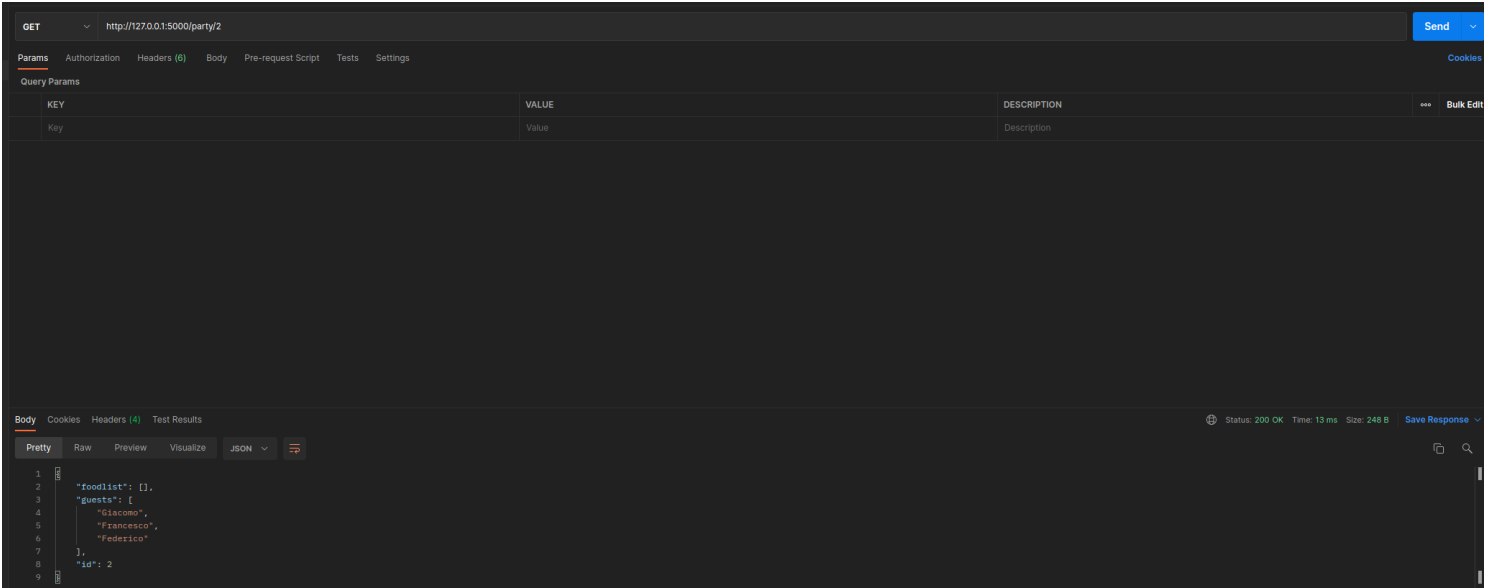


Figure 6: Getting a party using the party’s id.

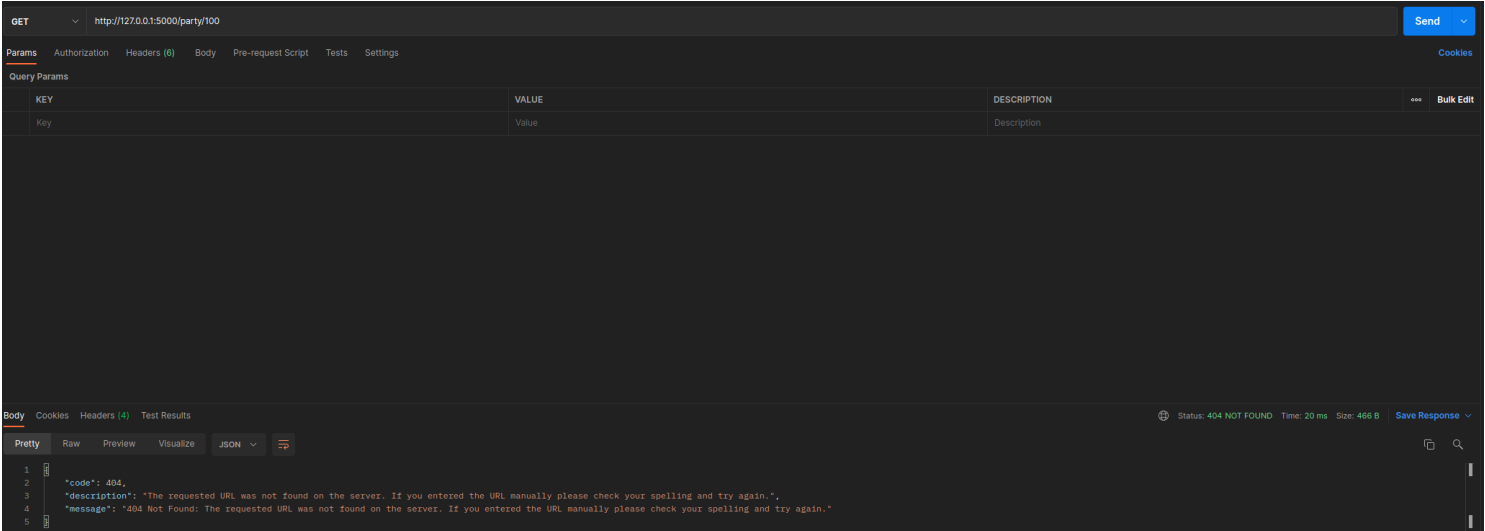


Figure 7: searching for a party that doesn’t exists.

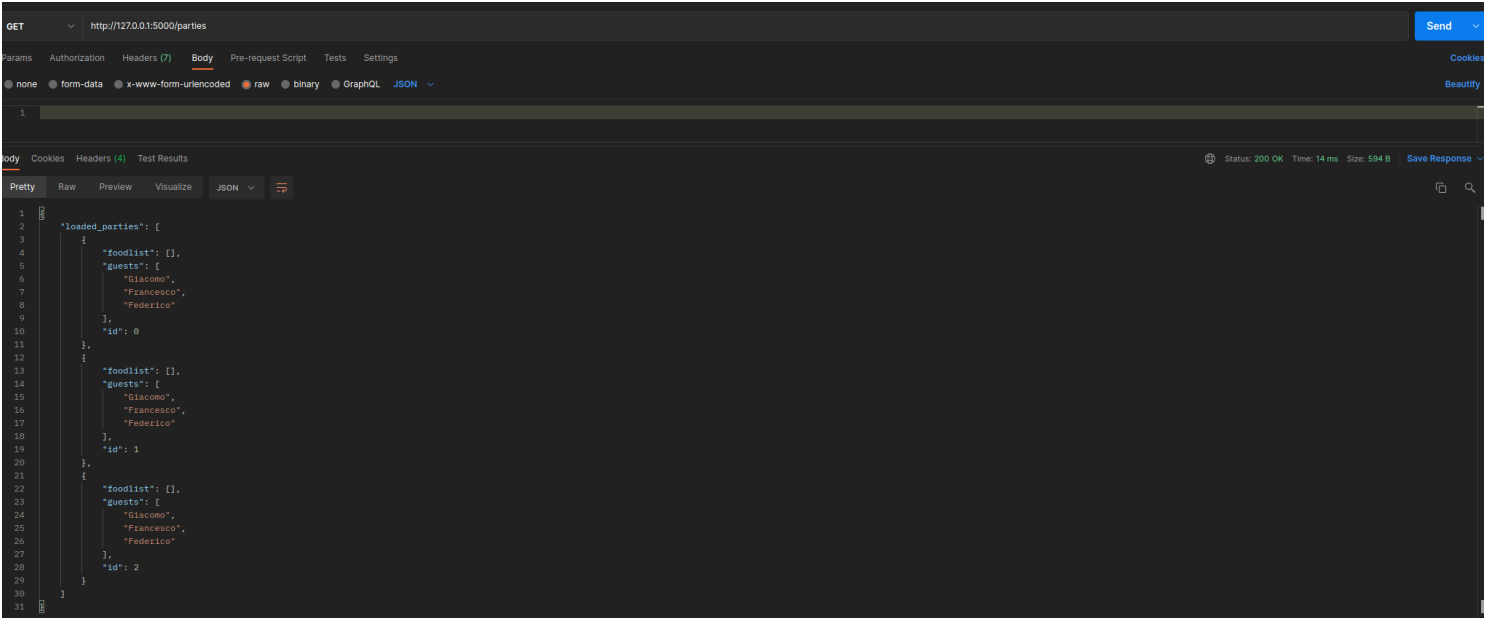


Figure 8: Retrieving all parties that are loaded in the system.

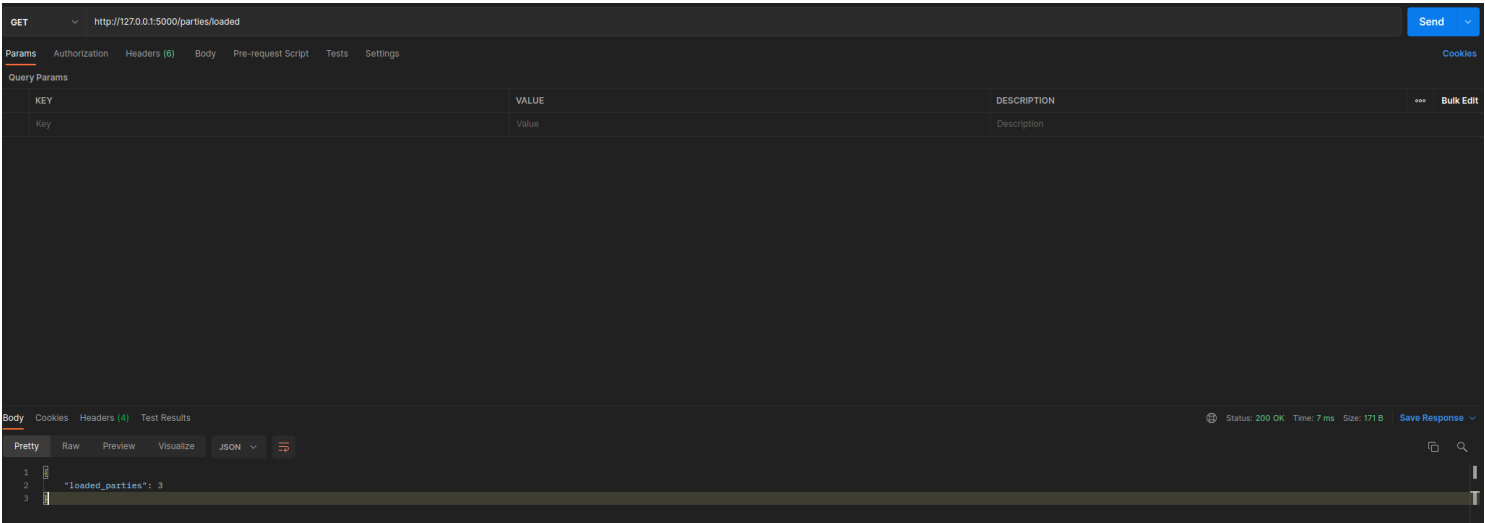


Figure 9: Retrieving the number of parties loaded in the system.

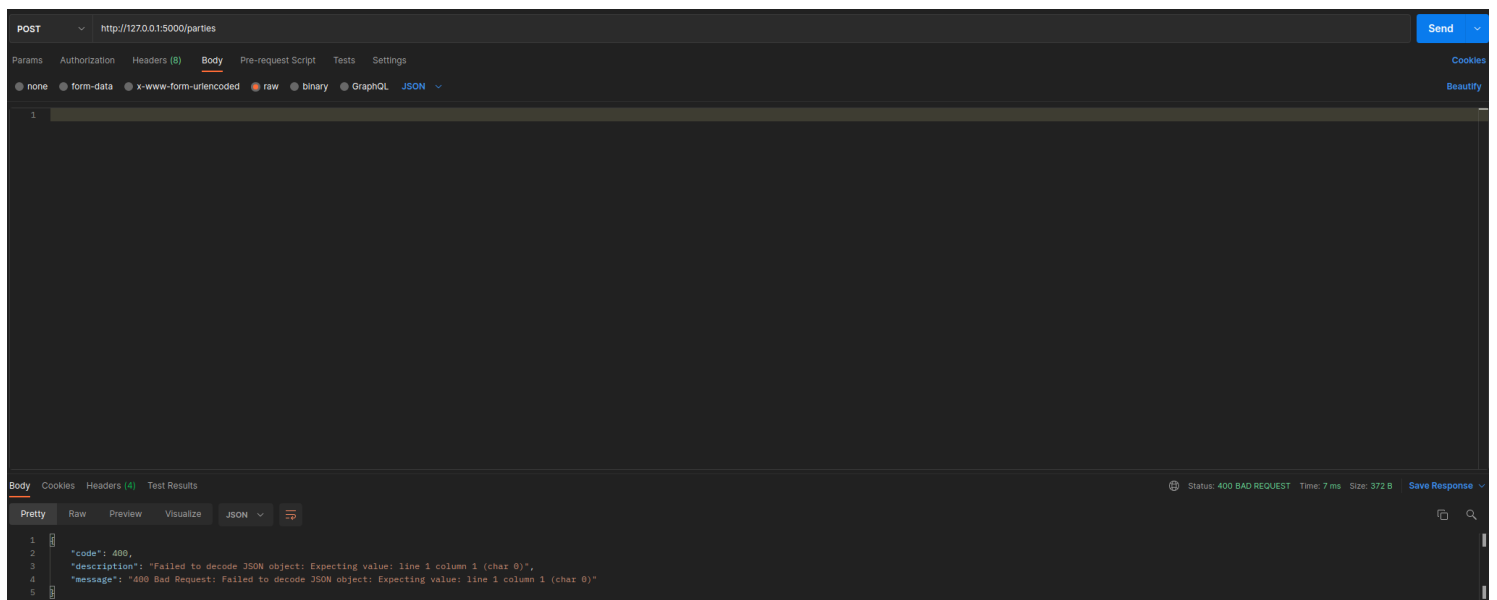


Figure 10: Trying to get all the parties when the list is empty.

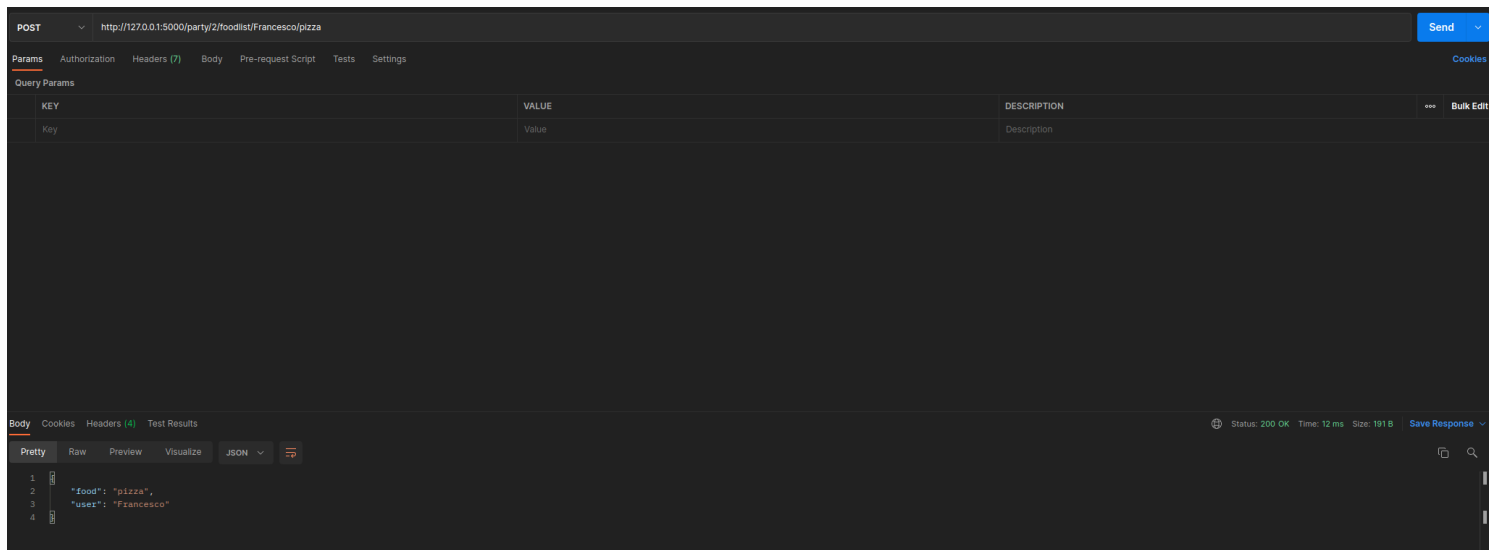


Figure 11: Adding a meal brought by a guest.

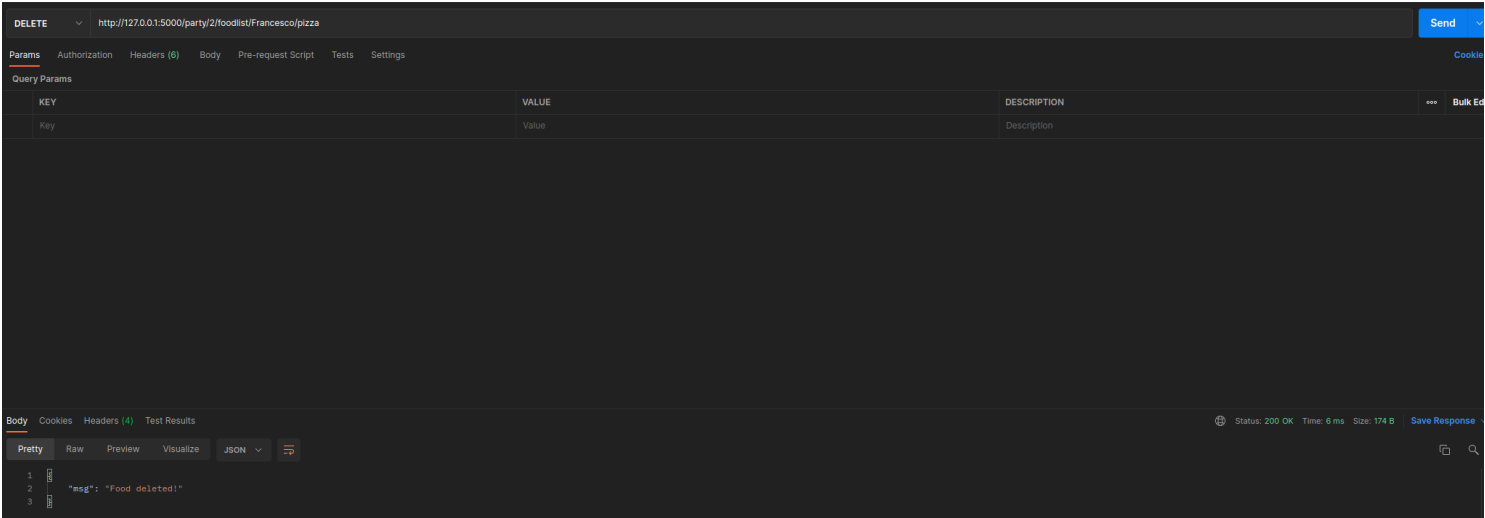


Figure 12: Removing a meal.

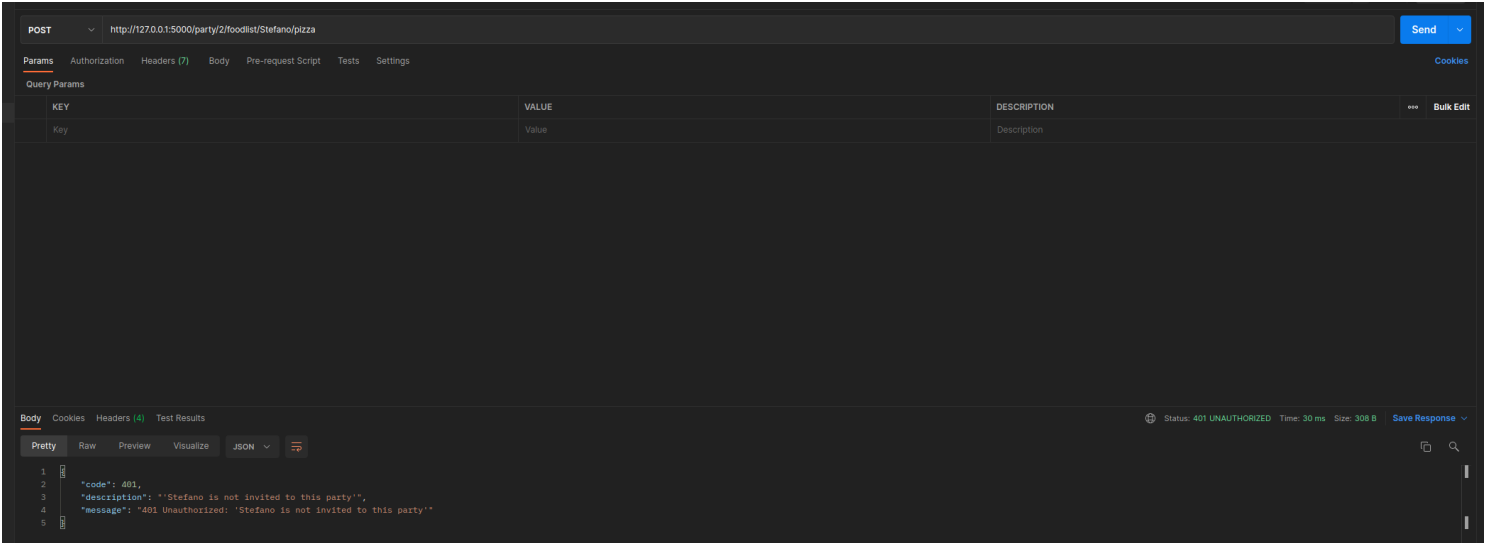


Figure 13: Trying to add a meal brought by an uninvited guest

GET http://127.0.0.1:5000/party/2/foodlist [Send](#)

Params Authorization Headers (6) Body Pre-request Script Tests Settings [Cookies](#)

Query Params

KEY	VALUE	DESCRIPTION	...	Bulk Edit
Key	Value	Description		

Body Cookies Headers (4) Test Results Status: 200 OK Time: 31 ms Size: 231 B [Save Response](#)

Pretty Raw Preview Visualize JSON

```
1 {
2   "foodlist": [
3     {
4       "food": "pizza",
5       "user": "Francesco"
6     }
7   ]
8 }
```

Figure 14: Retrieving the party food list.