Homework 1

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Advanced Software Engineering course

1 Introduction

The homework implements a RESTful service with its API and it has been developed starting from a microservice skeleton. In Section 2 several screenshots have been inserted in order to show the successfull execution of the tests. Section 3 contains the link to the GitHub repository of the project.

2 Tests

Tests have been executed issuing the command *pytest* from the main project folder and the implemented solution passed all of them, as shown in Figure 1.

```
/skeleton$ pytest --disable-warnings
(venv) fcarli@fcarli3-HP-Laptop:~/Scarica
                                  platform linux -- Python 3.8.10, pytest-6.2.5, py-1.10.0, plugy-1.0.0 rootdir: /home/fcarli/Scaricati/skeleton/skeleton, configfile: setup.cfg, testpaths: bedrock_a_party/tests plugins: cov-3.0.0
collected 2 items
bedrock_a_party/tests/test_party.py
 Missing
bedrock_a_party/classes/party.py
bedrock_a_party/views/parties.py
                                                                               17, 31, 39-40, 86, 94, 99, 102, 107, 110
24->28, 51-54, 68->73, 95-96, 104-105, 123-124, 146
                                          64
74
                                                  10
                                                          22
                                                                        82%
                                         189
                                                  20
                                                                        87%
6 files skipped due to complete coverage.
Coverage HTML written to dir htmlcov
                                                  17 warnings in 0.8
```

Figure 1: Output of pytest command.

2.1 Tests with PostMan

Test 1

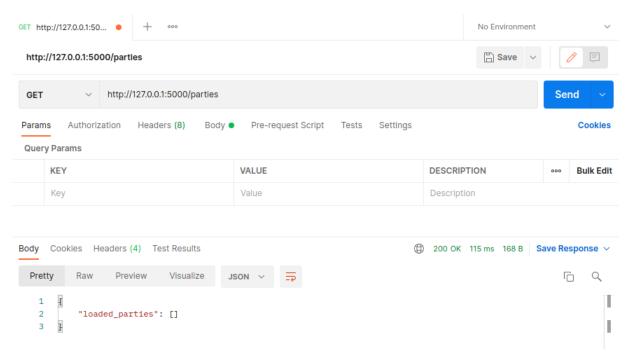


Figure 2

Figure 2 shows the output of a GET request on /parties with no existing parties yet.

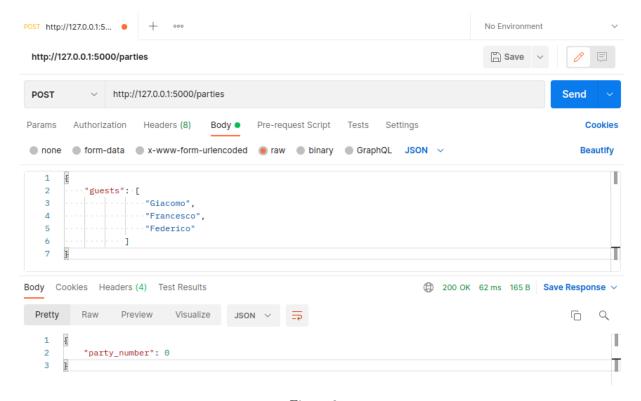


Figure 3

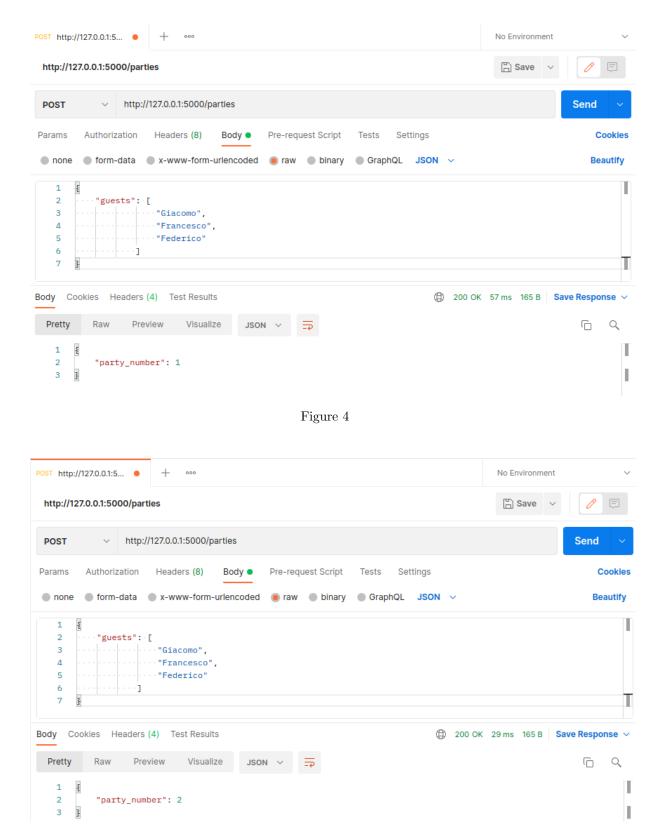


Figure 5

Figure 3, 4 and 5 show the outputs of POST requests on /parties. These requests creates three different parties.

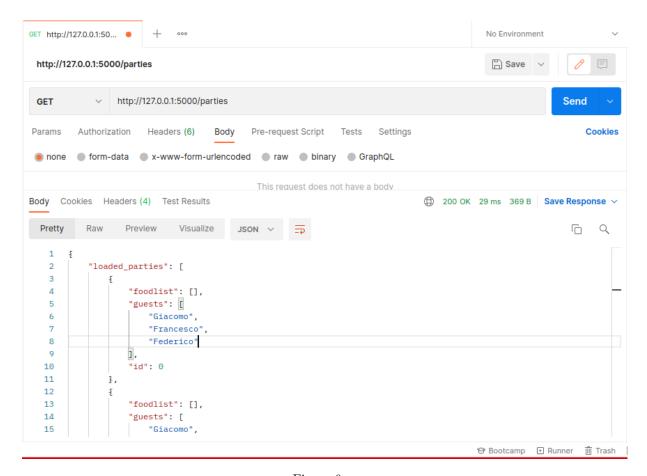


Figure 6

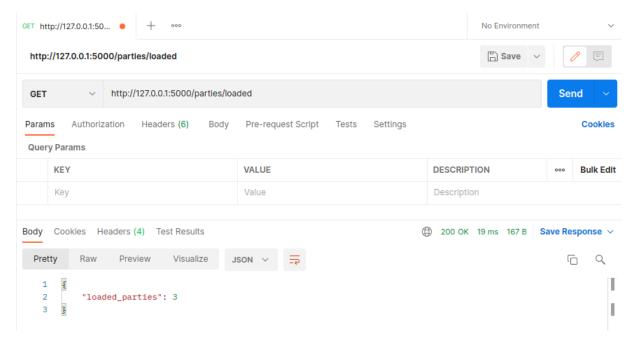


Figure 7

Figure 6 shows the partial output of a GET request on /parties, while Figure 7 shows the output of a GET request on /parties/loaded.

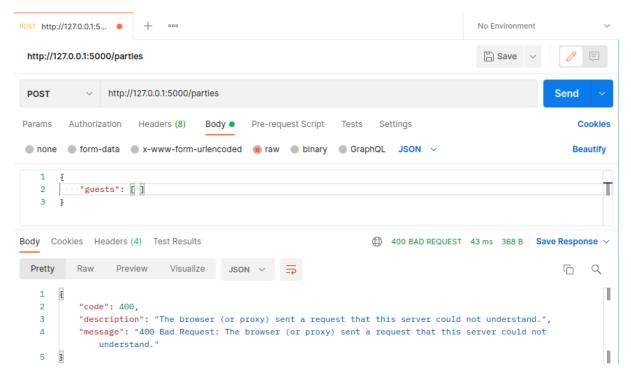


Figure 8

Figure 8 shows the output of a POST request on /parties with an empty list of guest. This request raises the CannotPartyAloneError exception.

Test 2

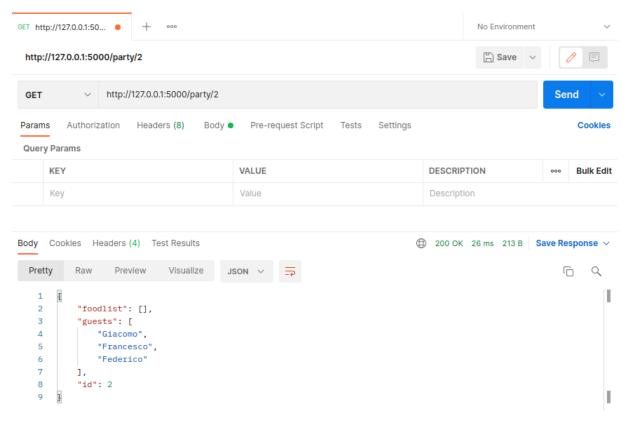


Figure 9

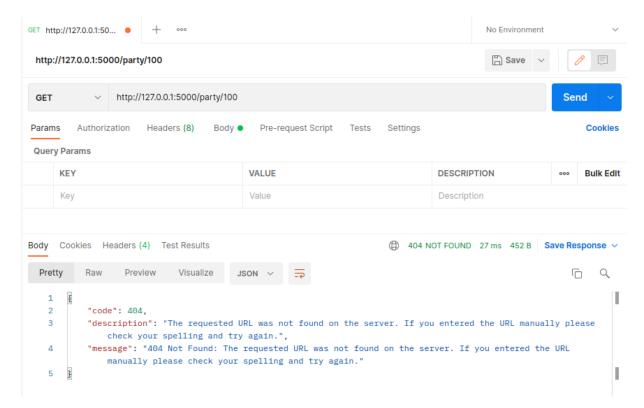


Figure 10

Figure 9 shows the output of a GET request on /party/2, (existing party). Figure 10 shows the output of a GET request on /party/100 (non-existing party).

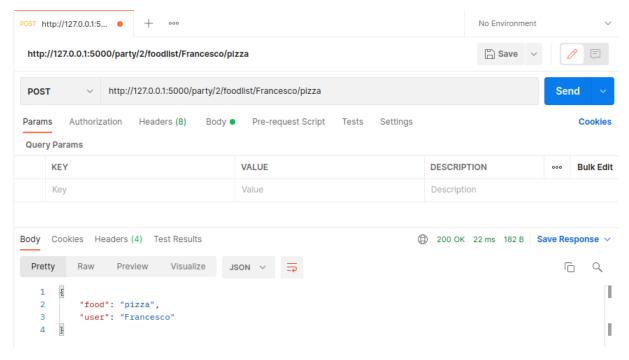


Figure 11

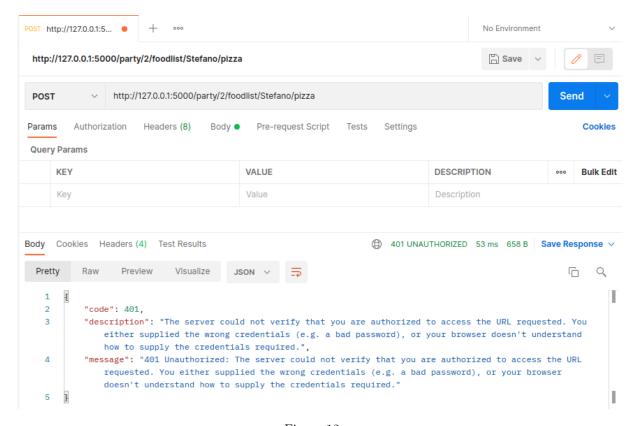


Figure 12

Figure 11 shows the output of a POST request on /party/2/foodlist/Francesco/pizza. Figure 12 shows a different output because the POST request is on /party/2/foodlist/Stefano/pizza, but Stefano is not a guest of the party, and this raises the NotInvitedGuestError exception.

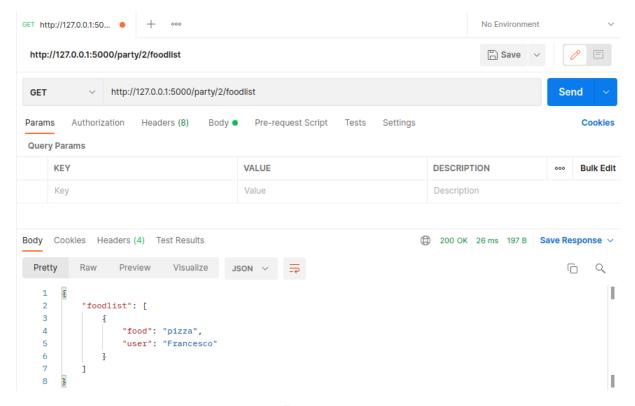


Figure 13

Figure 13 shows the output of a GET request on /party/2/foodlist.

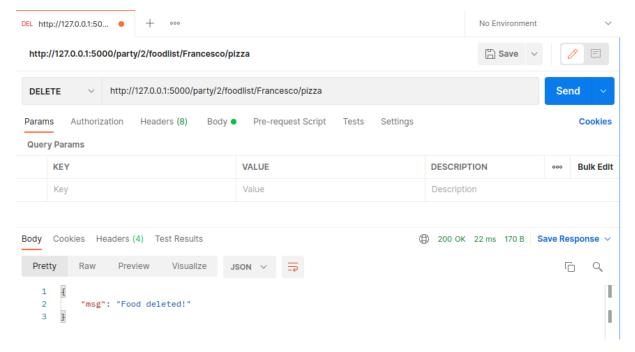


Figure 14

Figure 14 shows the output message of a DELETE request on /party/2/foodlist/Francesco/pizza. If the food to delete is not in the list, the NotExistingFoodError exception will be raised.

3 Reference

The entire homework is available on my GitHub page, at the following link: https://github.com/fcarli3/advanced_software_engineering/tree/main/Homework1