Homework 1 – Advanced Software Engineering (2019/20)
Millionaire

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Repository: https://github.com/simo-r/ASE/tree/master/Homework1

1. Description

The development of the homework started by taking a tour of the provided skeleton. The tour aimed to discover and understand the class quiz.py and the methods already provided in the quizzes.py to exploit them in the development phase.
The implementation followed the specification provided inside the quizzes.py and in the PDF but at a certain point, I had to take a look at the test_quiz.py to understand the syntax and the values expected and returned by each endpoint.
I also added the keyword *methods* to the Flask *route* annotation restricting the usage of such methods to the only HTTP methods supported by them, so now Flask manages unsupported HTTP method on each route.
Note that, in the method *all_quizzes()* inside the quizzes.py the variable *result* gives a warning because *"Local variable result might be referenced before assignment"* but that will never happen because the execution of the method will either enter in PUT or the GET case thanks to the Flask route annotation.
The screenshot of the successfully passed tests below shows a warning due to the alias *tested_app* in the import *"from myservice.app import app as tested_app"* because Pytest scans every python file trying to execute as a function "everything" that starts with the *test* keyword.

2. Screenshots

2.1 PyTest

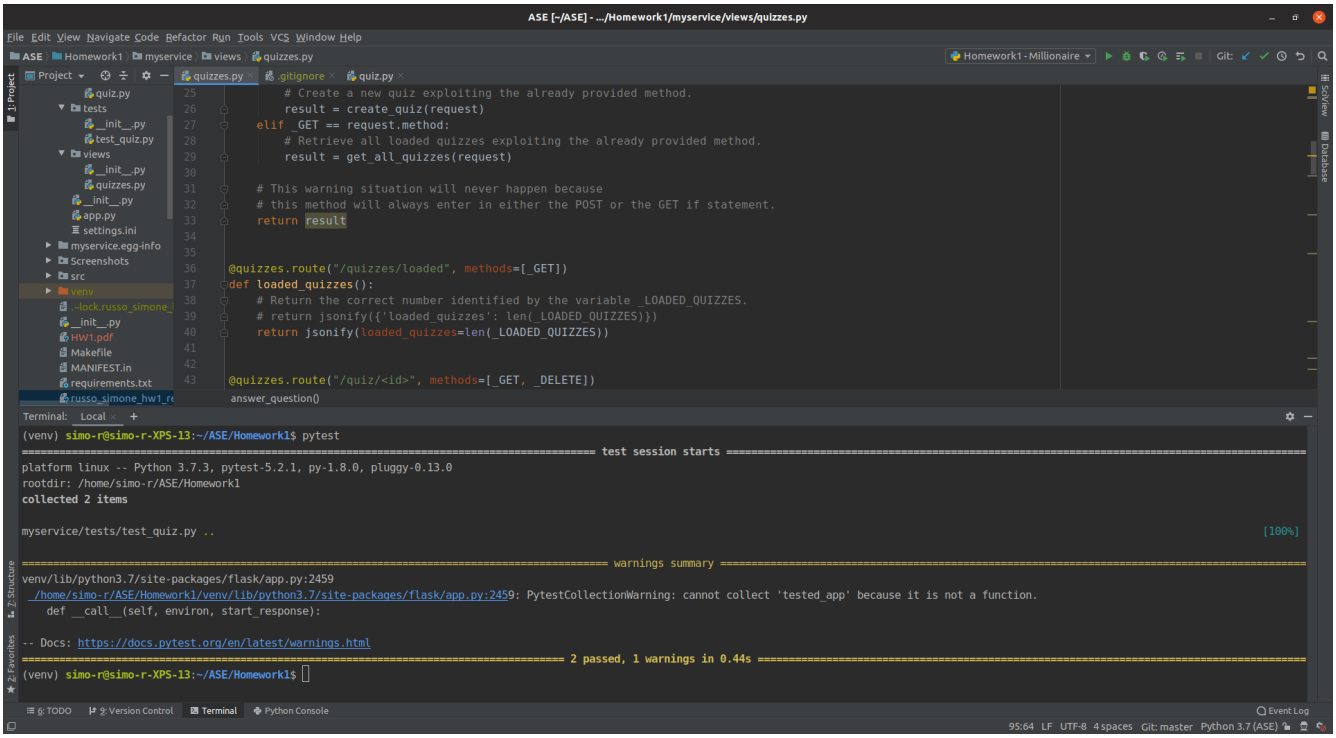

Figure 1: test_quiz.py passed

2.2 Postman – All polls

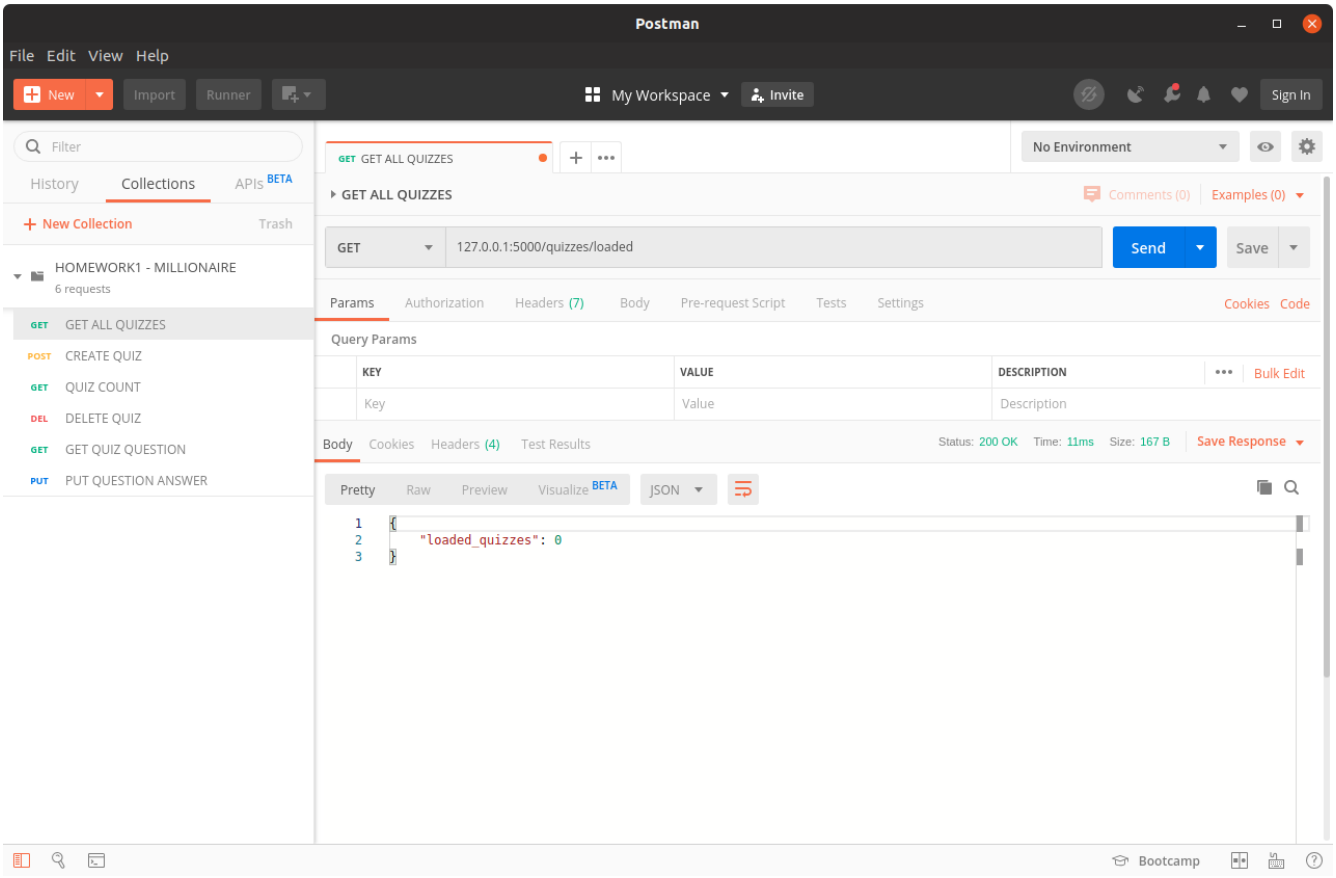

Figure 2: Test1 - No loaded quiz

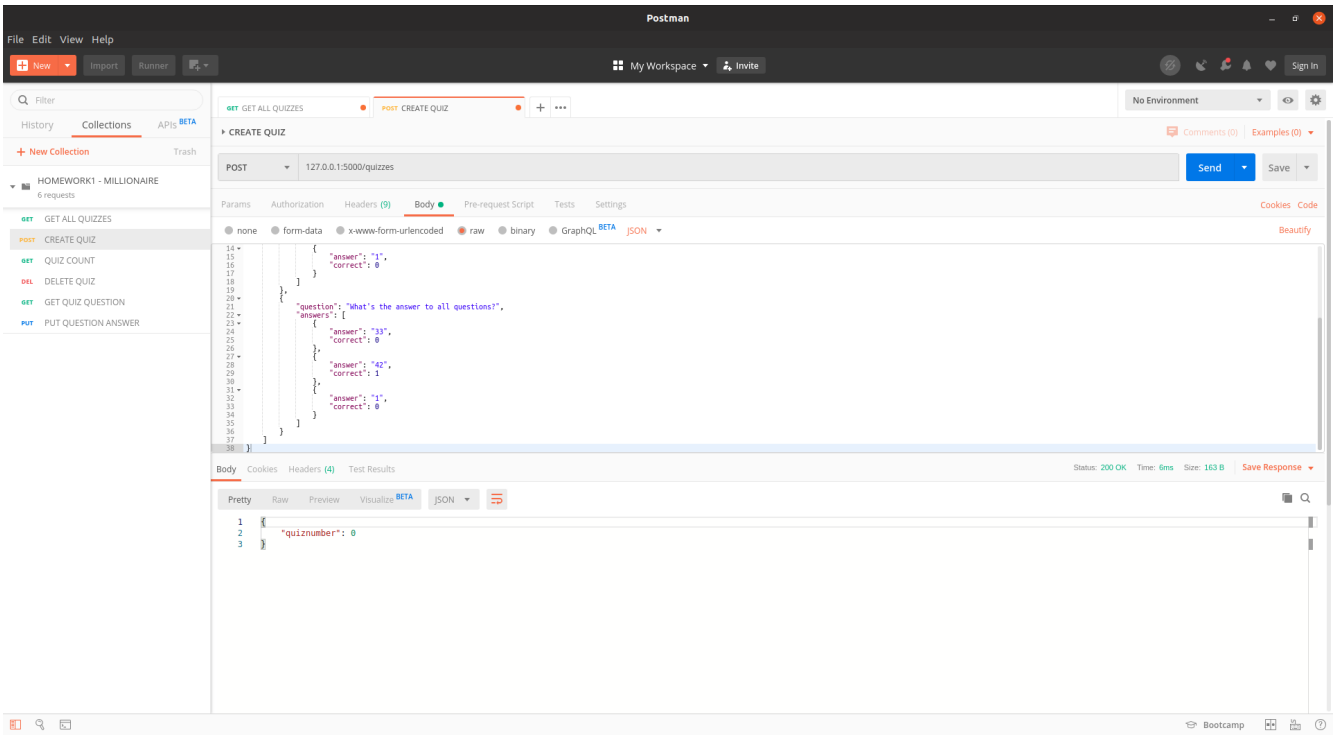

Figure 3: Test2 - Create 1st quiz with 2 questions

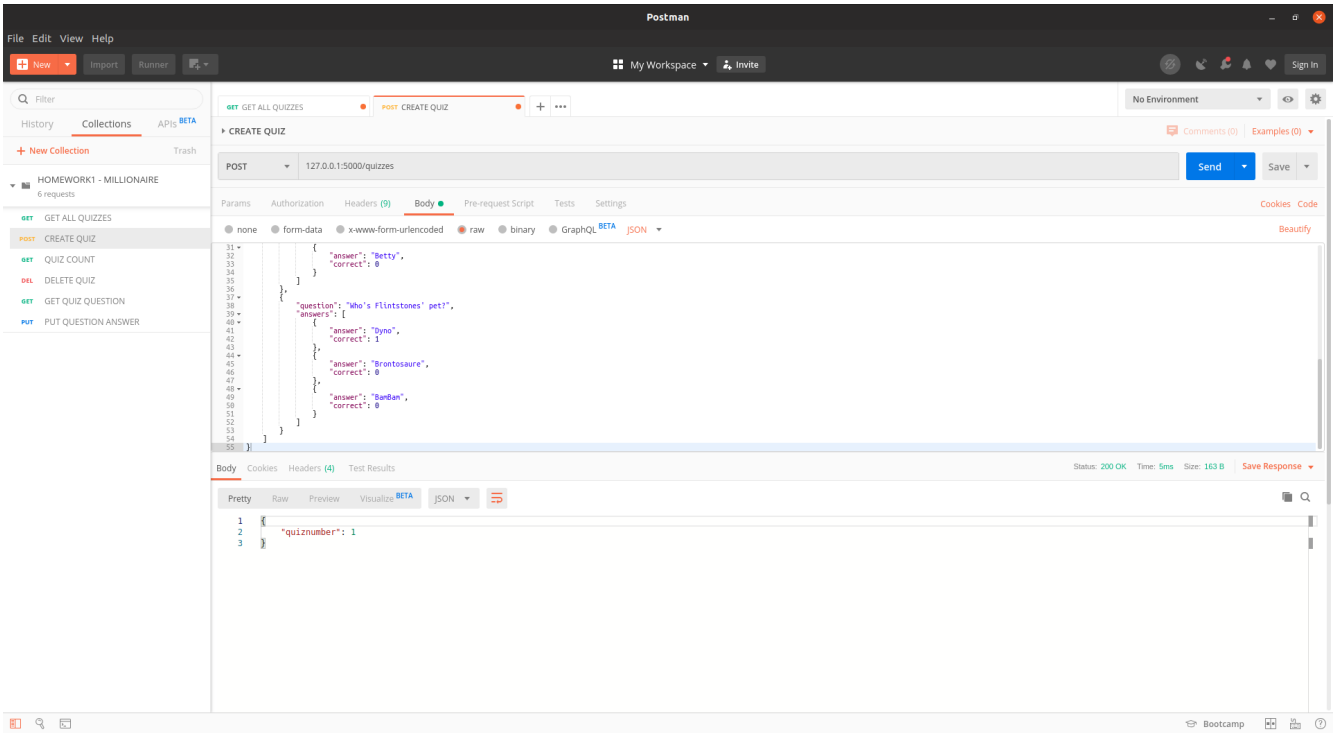

Figure 4: Test3 - Create 2nd quiz with 3 questions

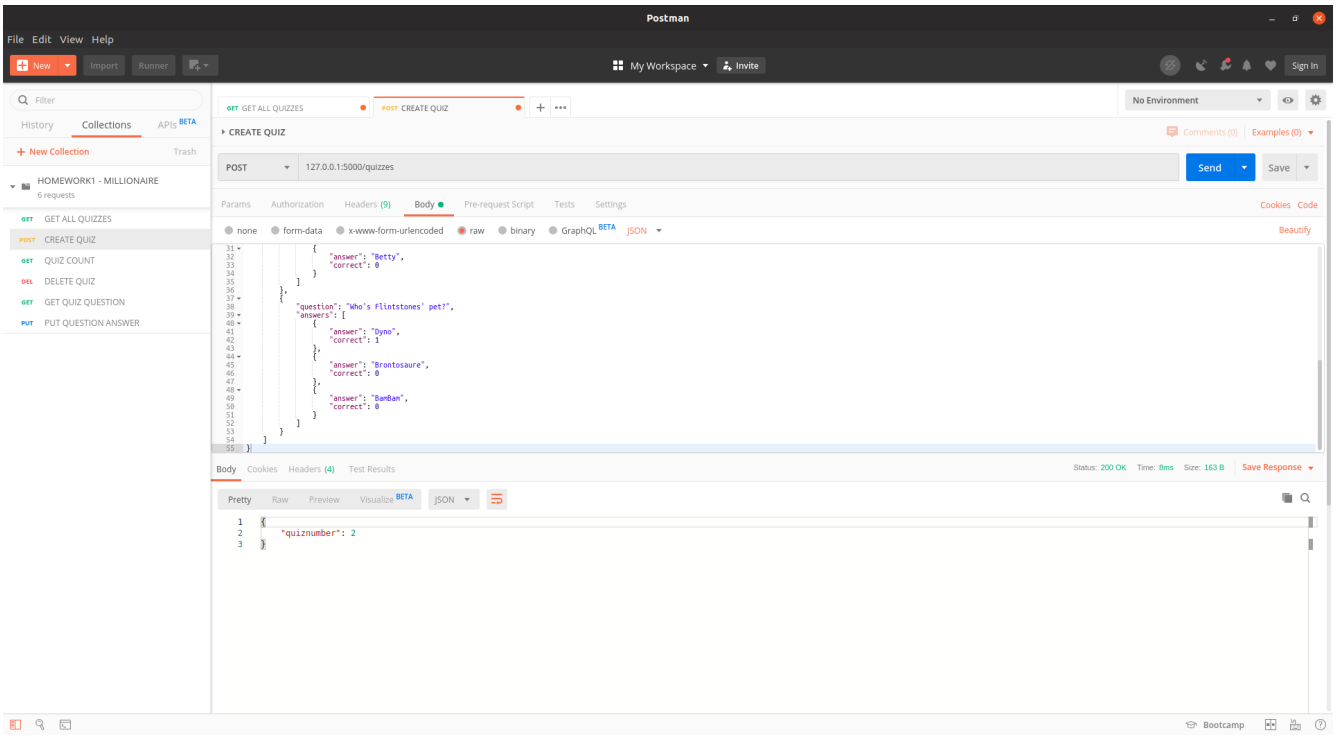

Figure 5: Test4 - Create 3rd quiz with 3 questions

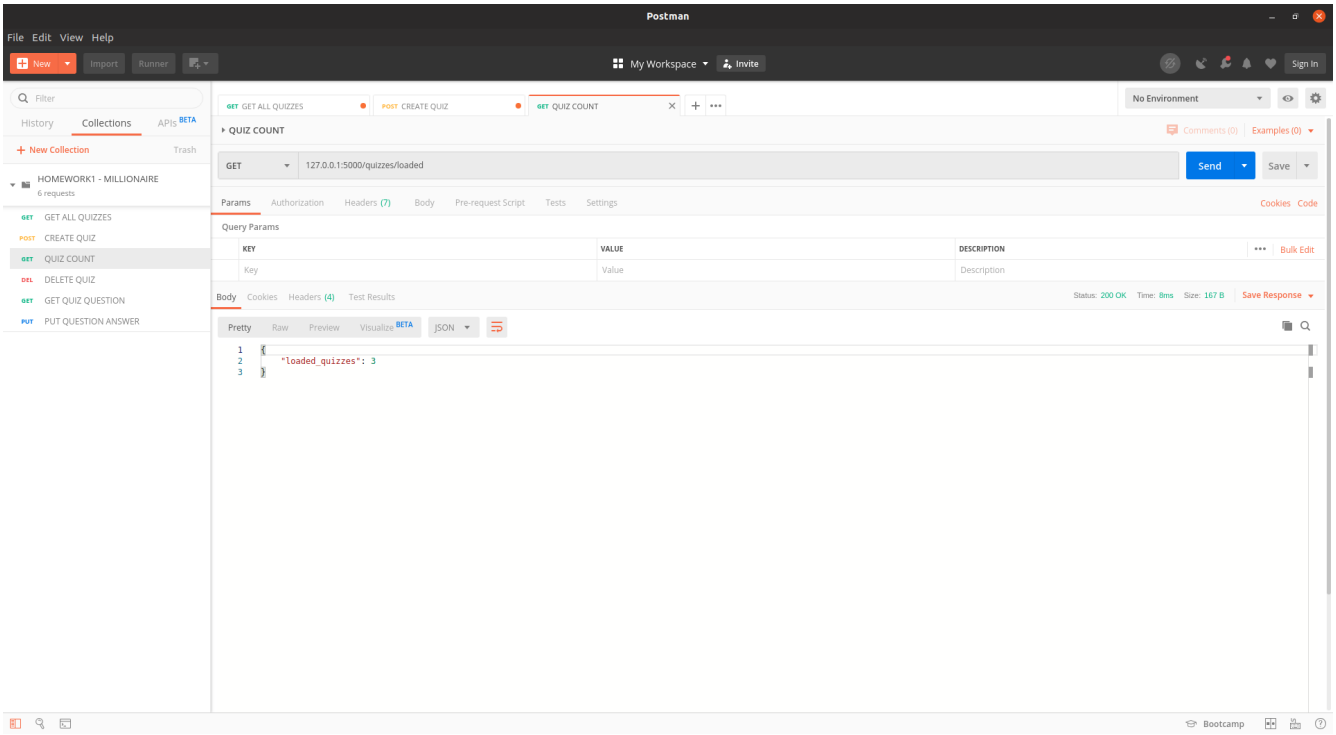

Figure 6: Test5 - Get the number of loaded quizzes

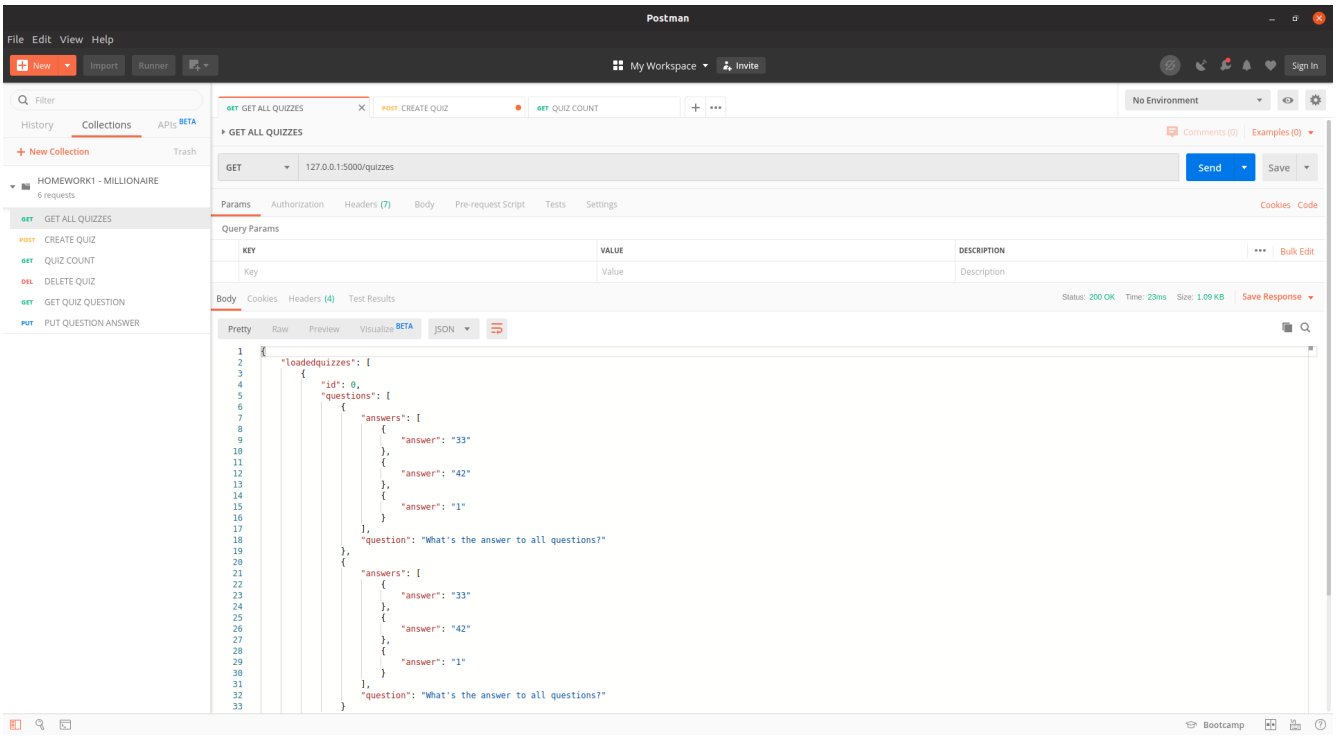

Figure 7: Test6 - Get all loaded quizzes

2.3 Postman - /quiz

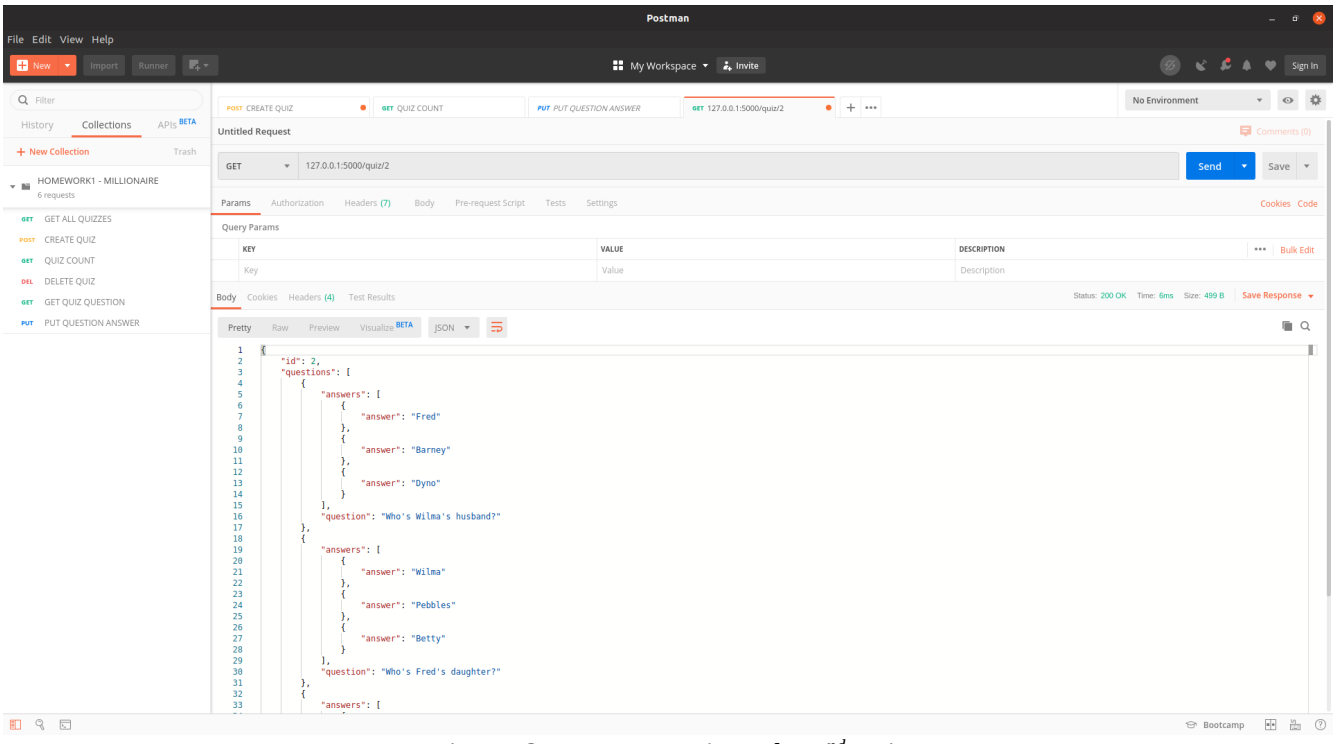

Figure 8: Test7 - Retrieve the 2nd quiz

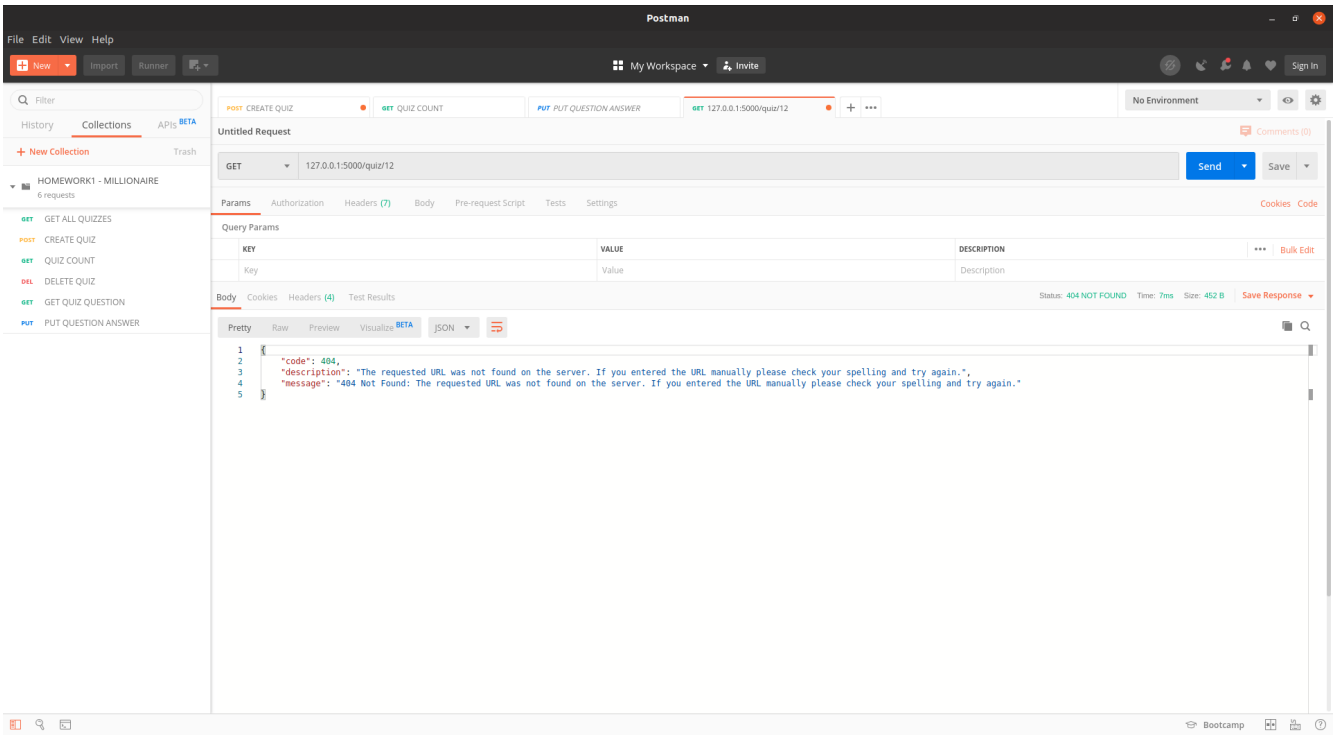

Figure 9: Test8 - Retrieve non-existing quiz

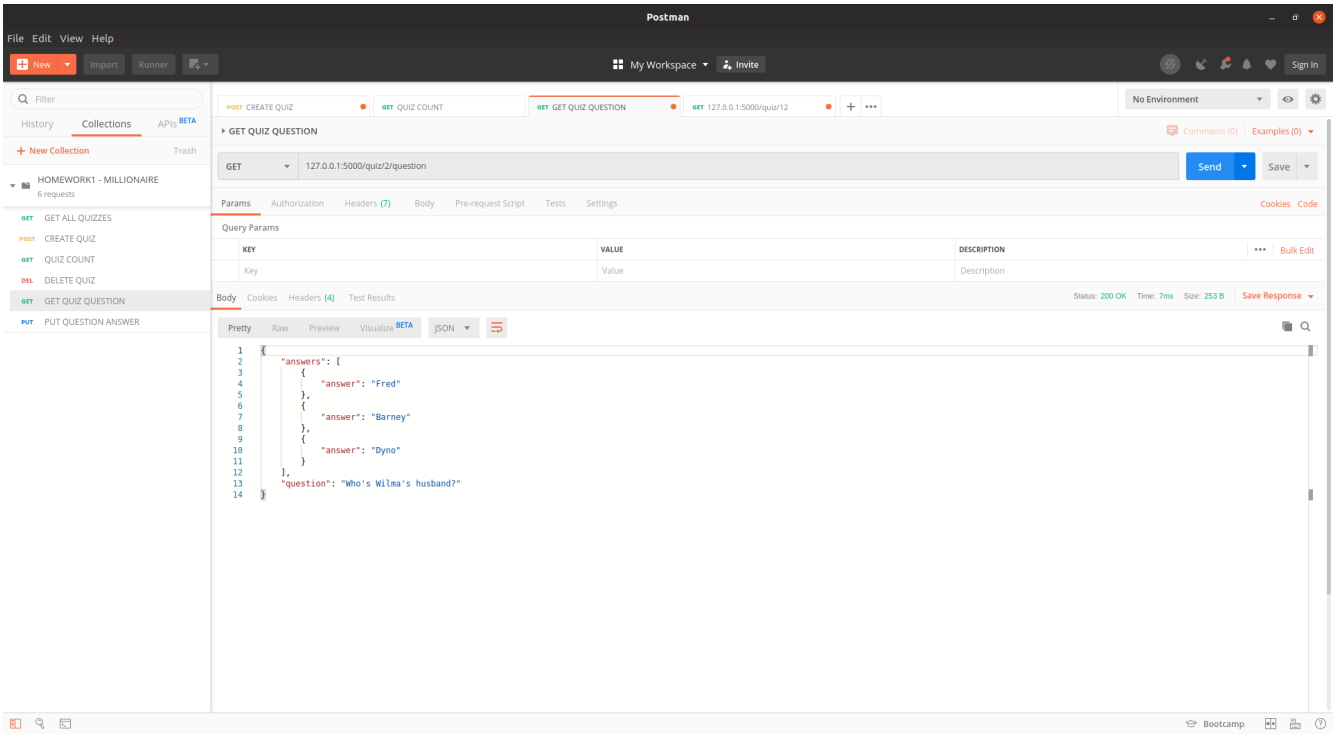

Figure 10: Test9 - Get questions of the 2nd quiz

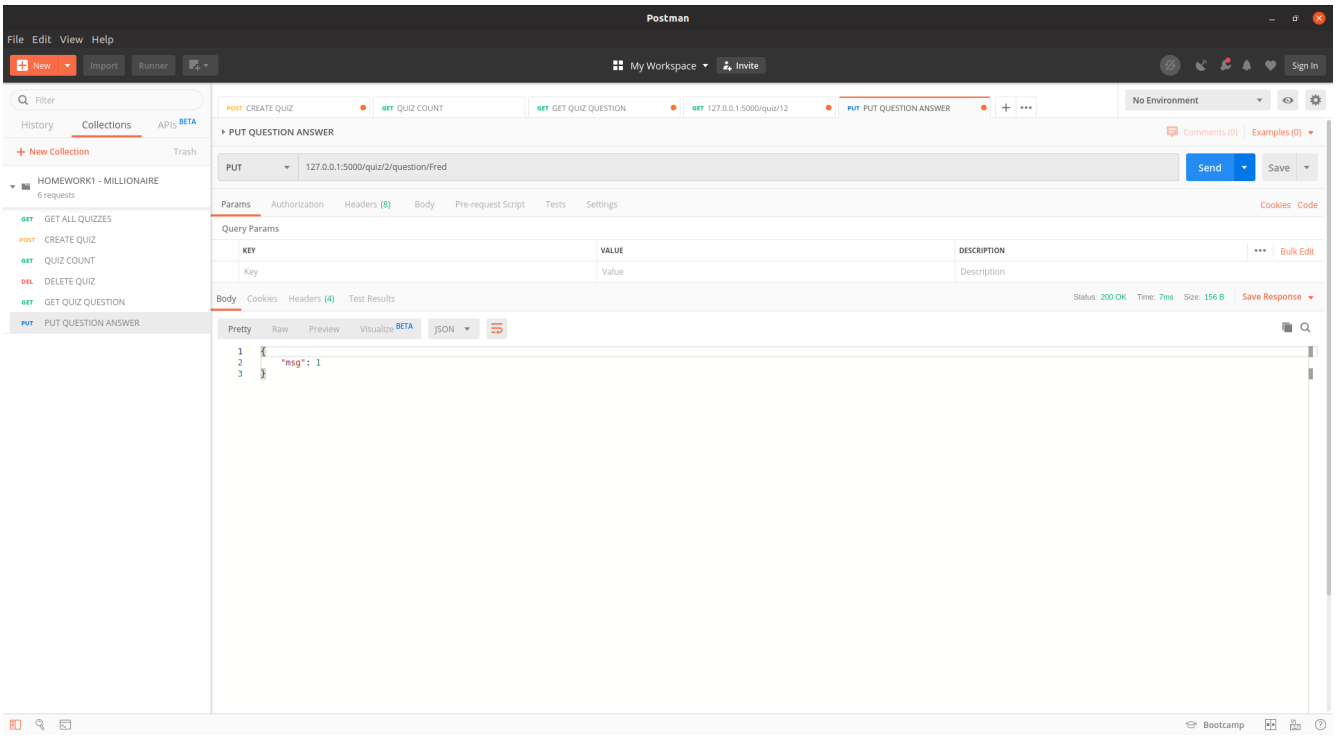

Figure 11: Test10 - Answer first question of the 2nd quiz

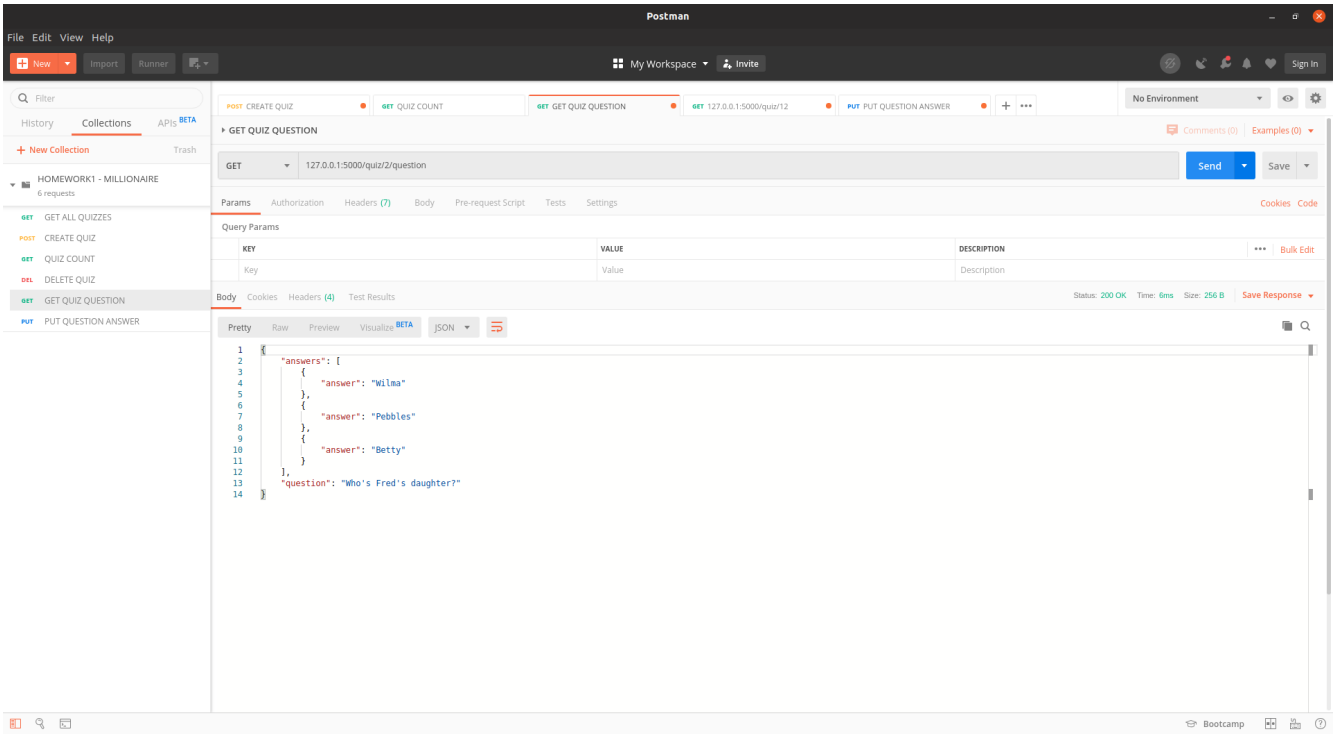

Figure 12: Test11 - Get the next question of the 2nd quiz

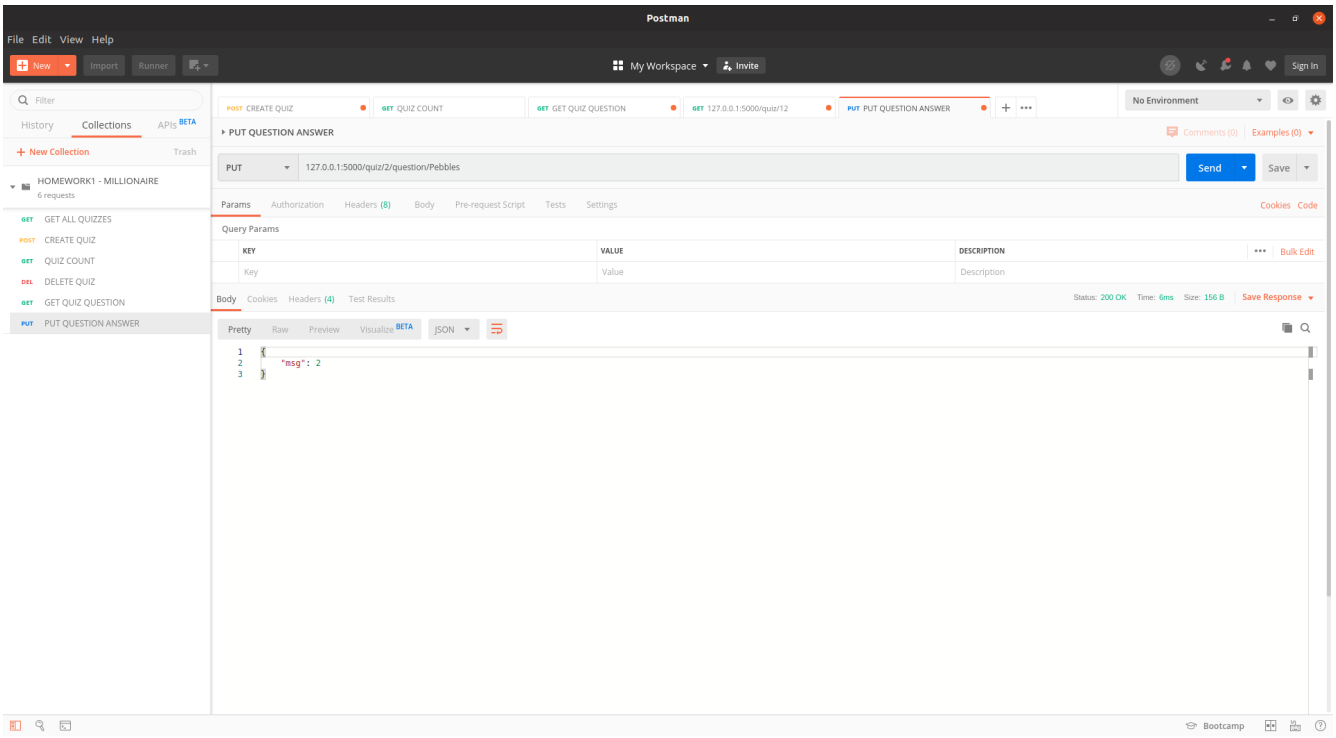

Figure 13: Test12 - Answer 2nd question of the 2nd quiz

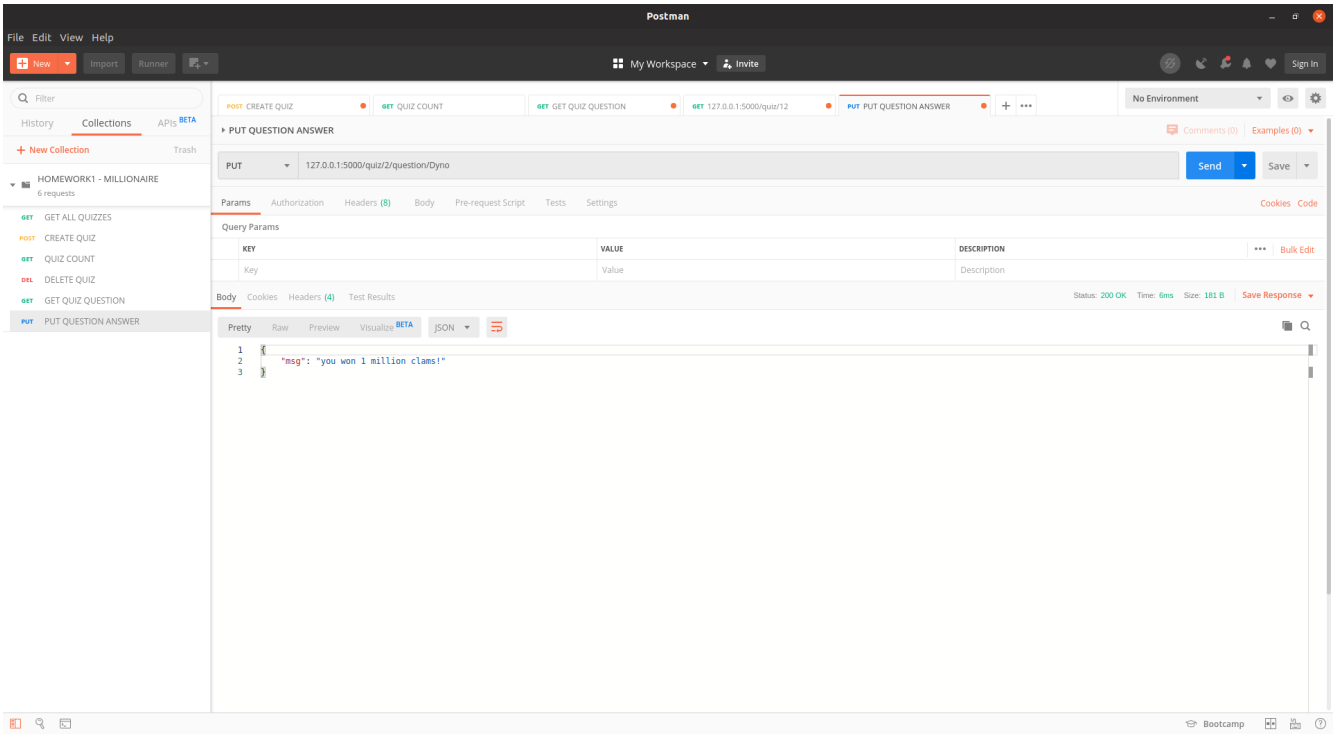

Figure 14: Test13 - Answer 3rd question of the 2nd quiz and win!

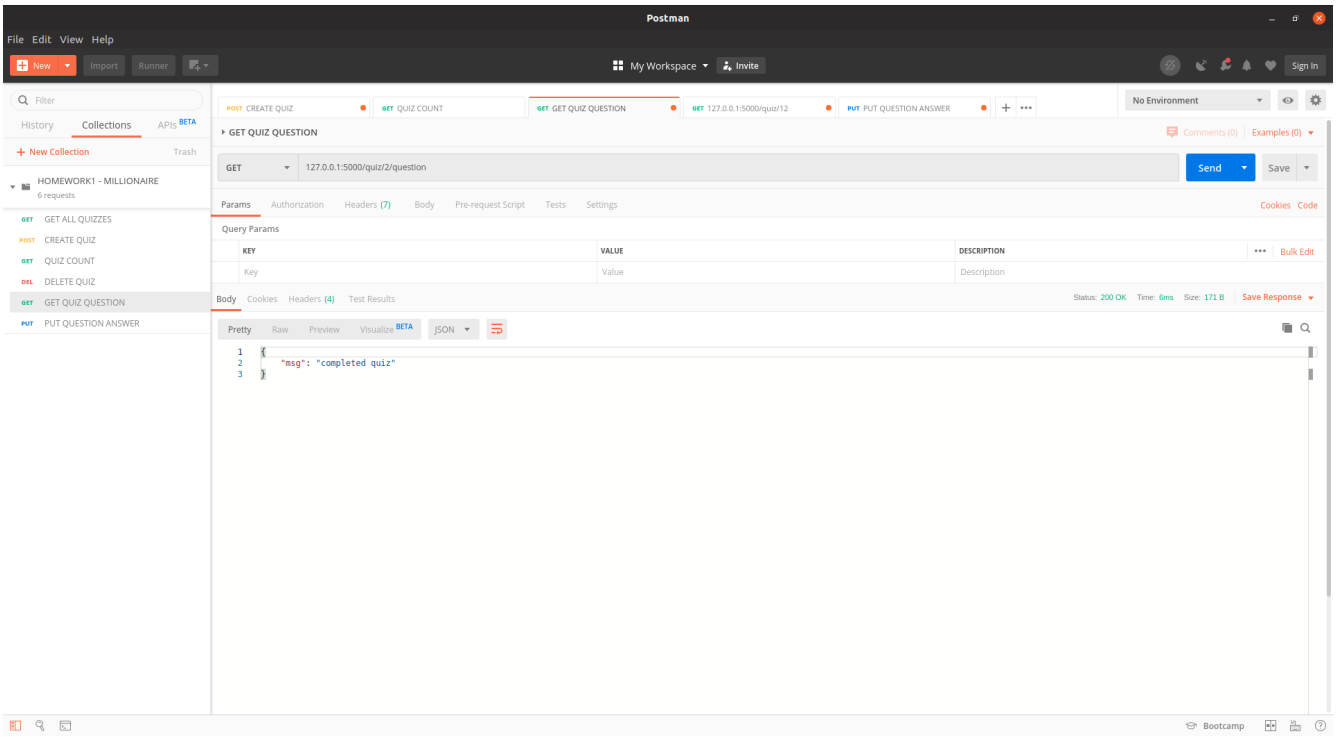

Figure 15: Test14 - Get questions of the already won quiz

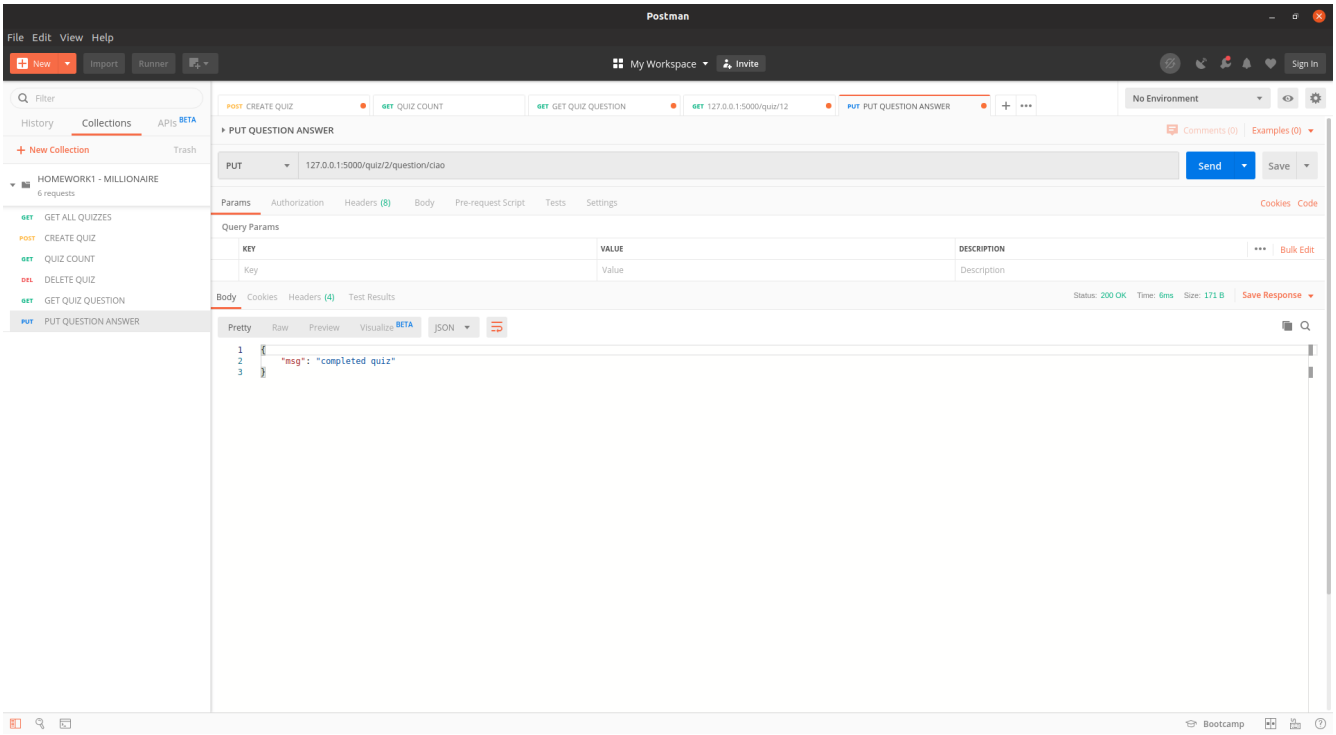

Figure 16: Test15 - Answer an already answered question of the 2nd quiz

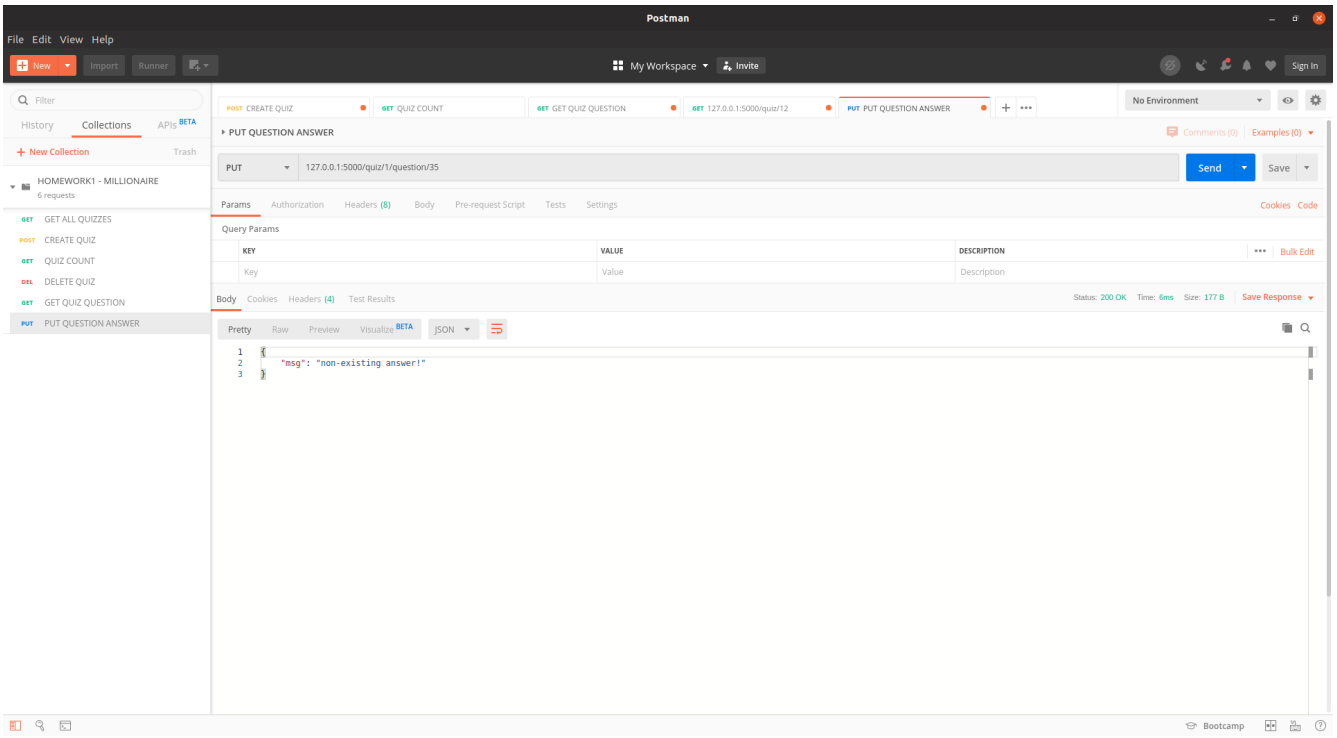

Figure 17: Test16 - Answer with non-existing answer

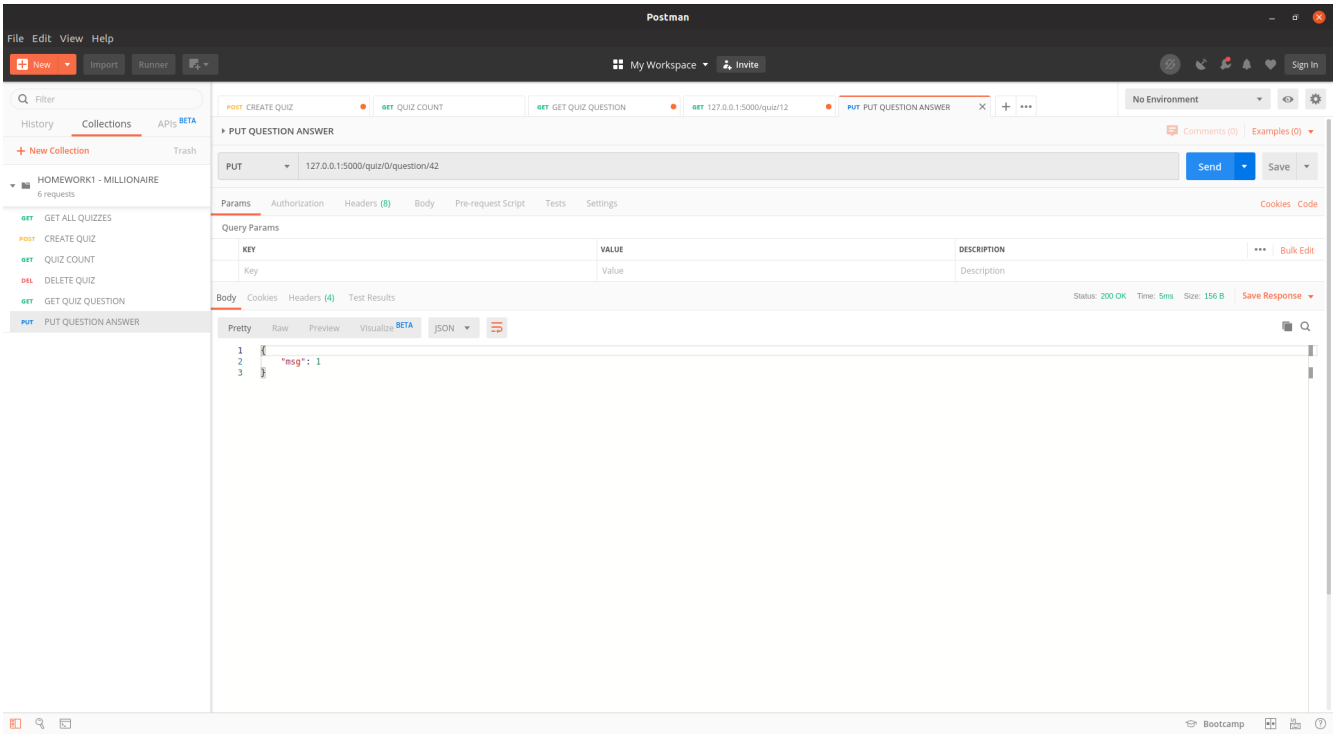

Figure 18: Test17 - Correct answer of a question

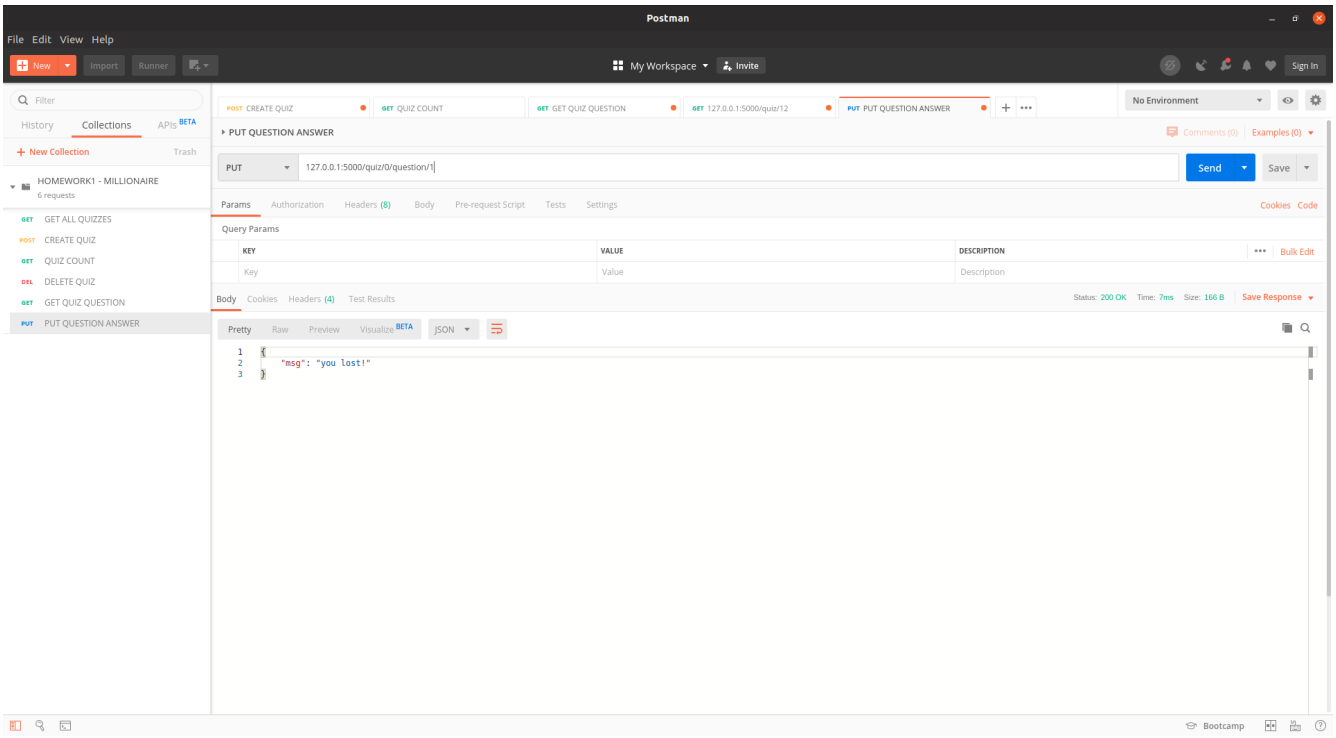

Figure 19: Test18 - Wrong answer

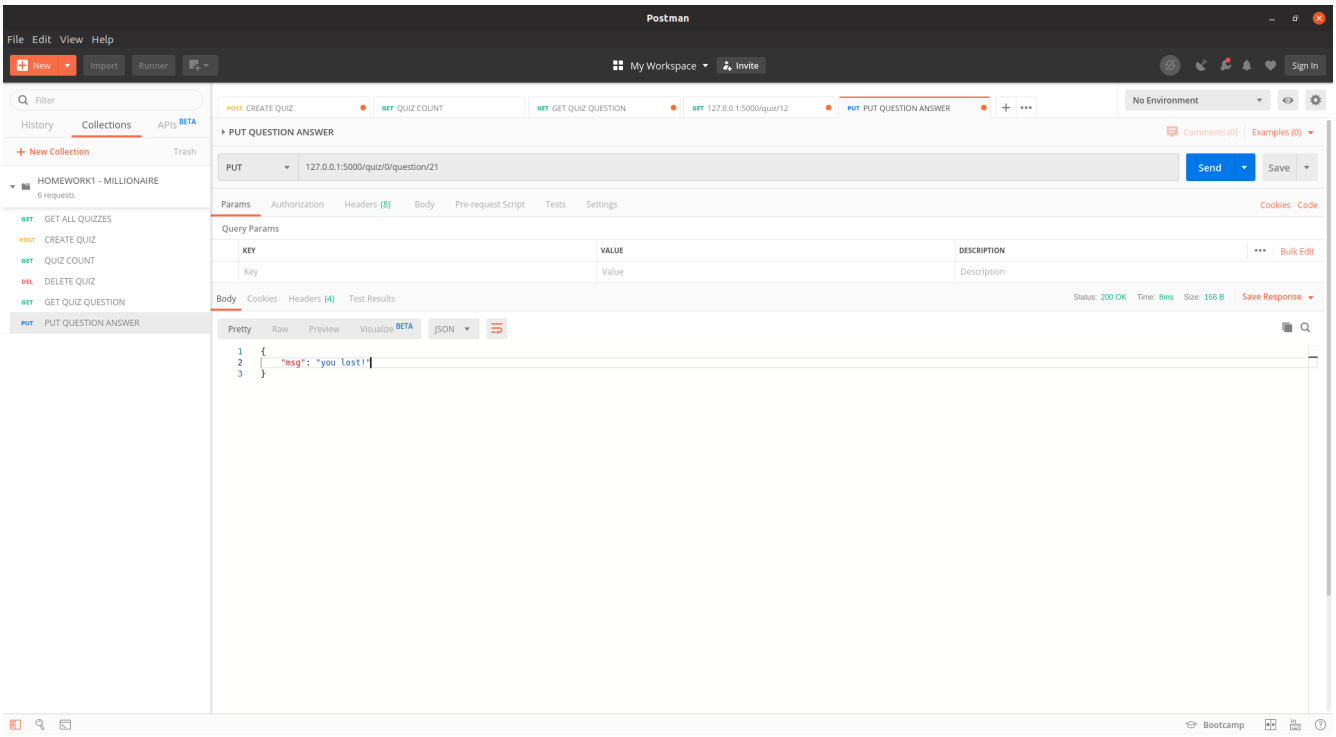

Figure 20: Test19 - Double call to lost quiz

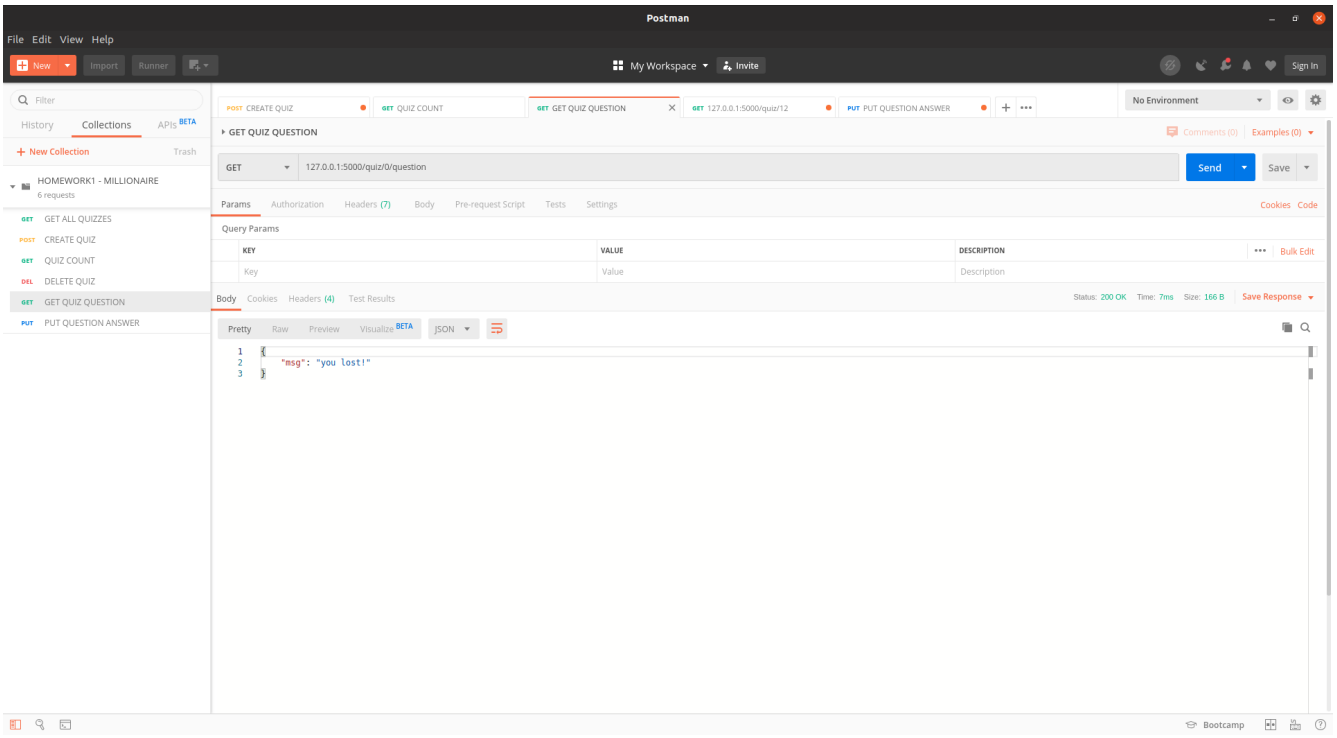

Figure 21: Test20 - Triple call to lost quiz

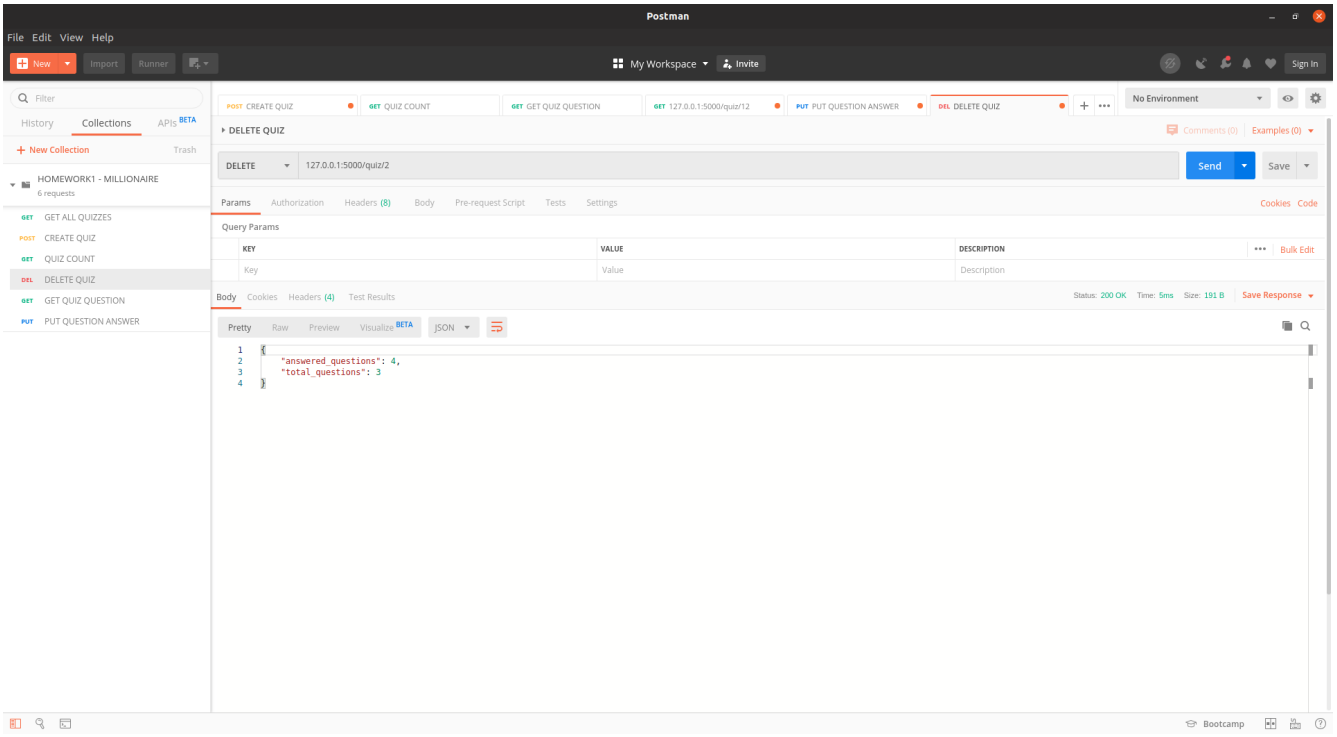

Figure 22: Test21 - Delete quiz

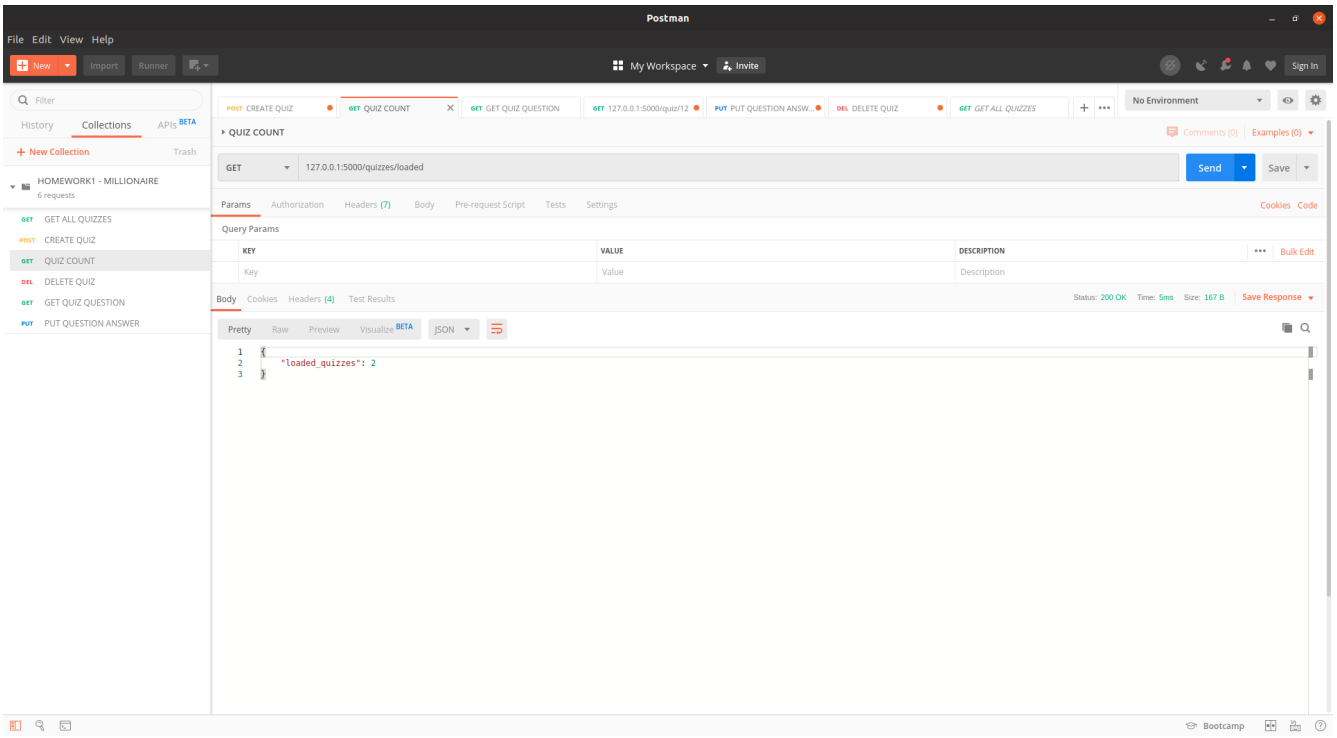

Figure 23: Test22 - Two loaded quizzes

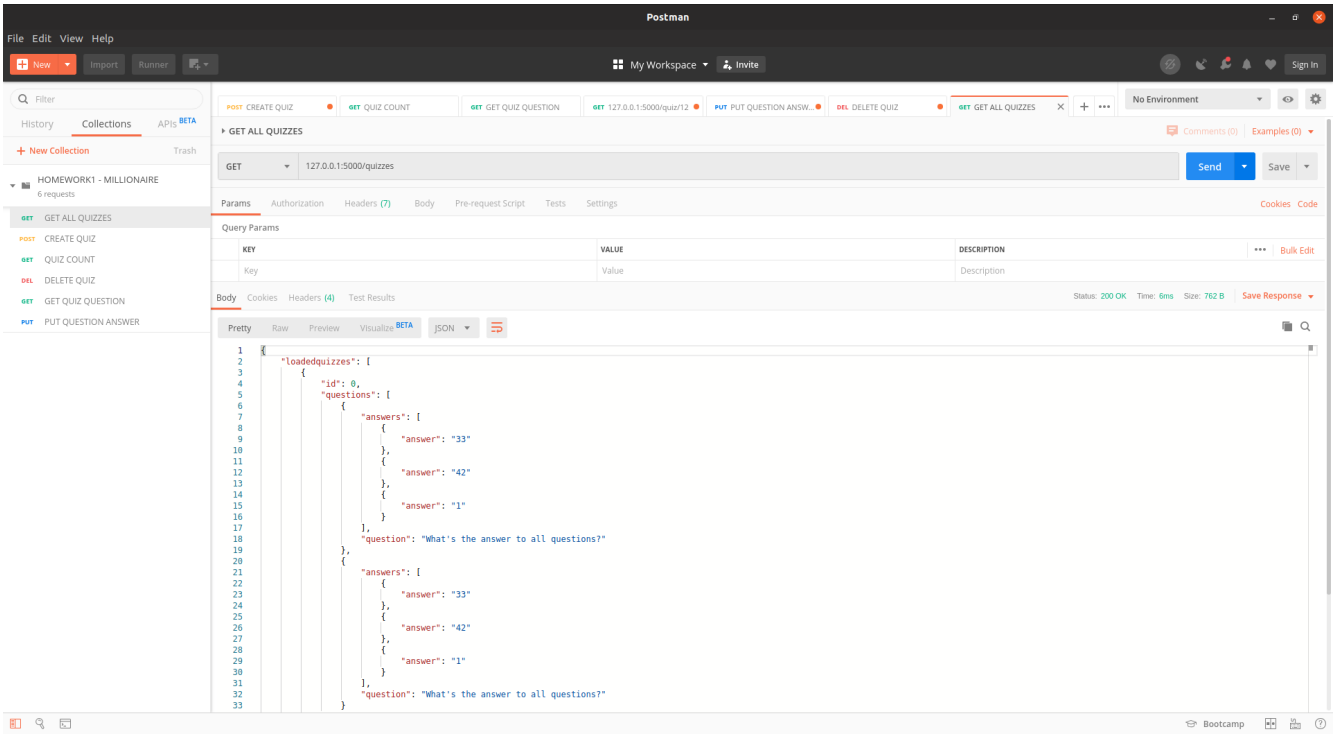

Figure 24: Test23 - Get all loaded quizzes

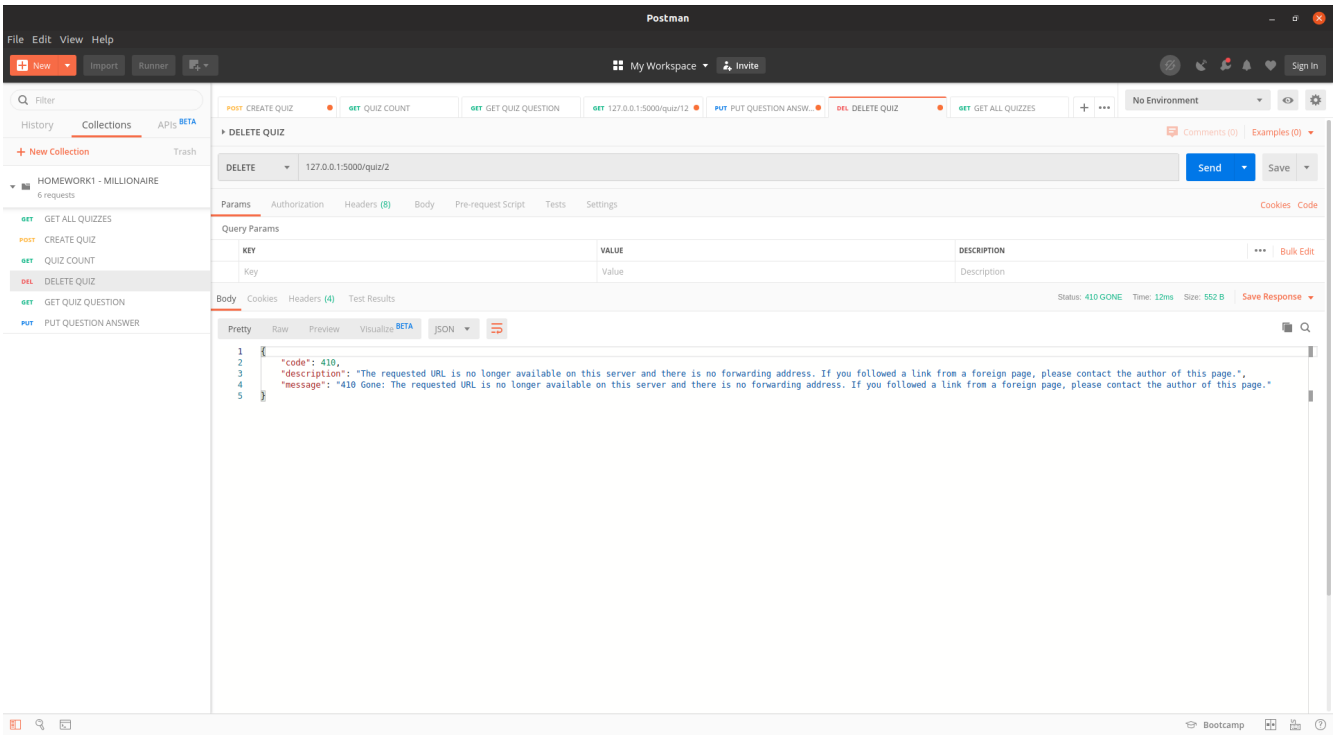

Figure 25: Test24 - Delete previously deleted quiz

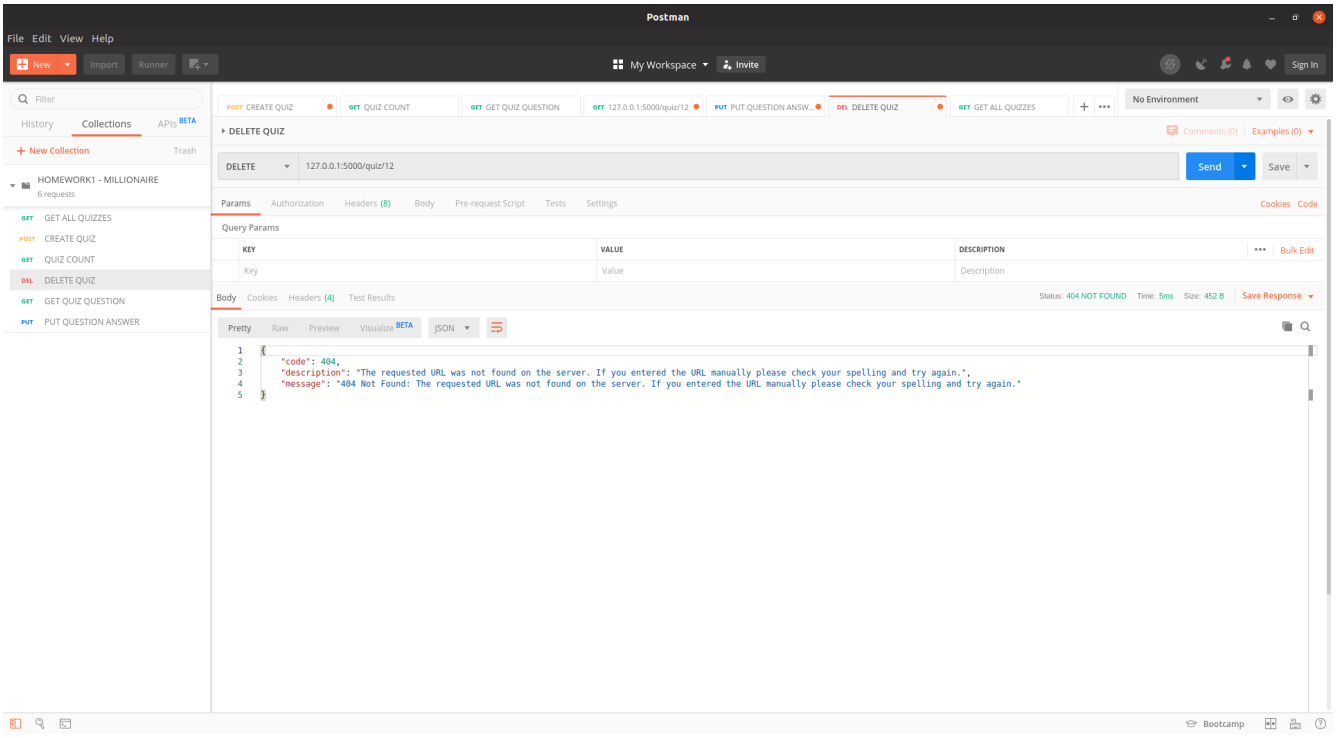

Figure 26: Test25 - Delete non-existing quiz

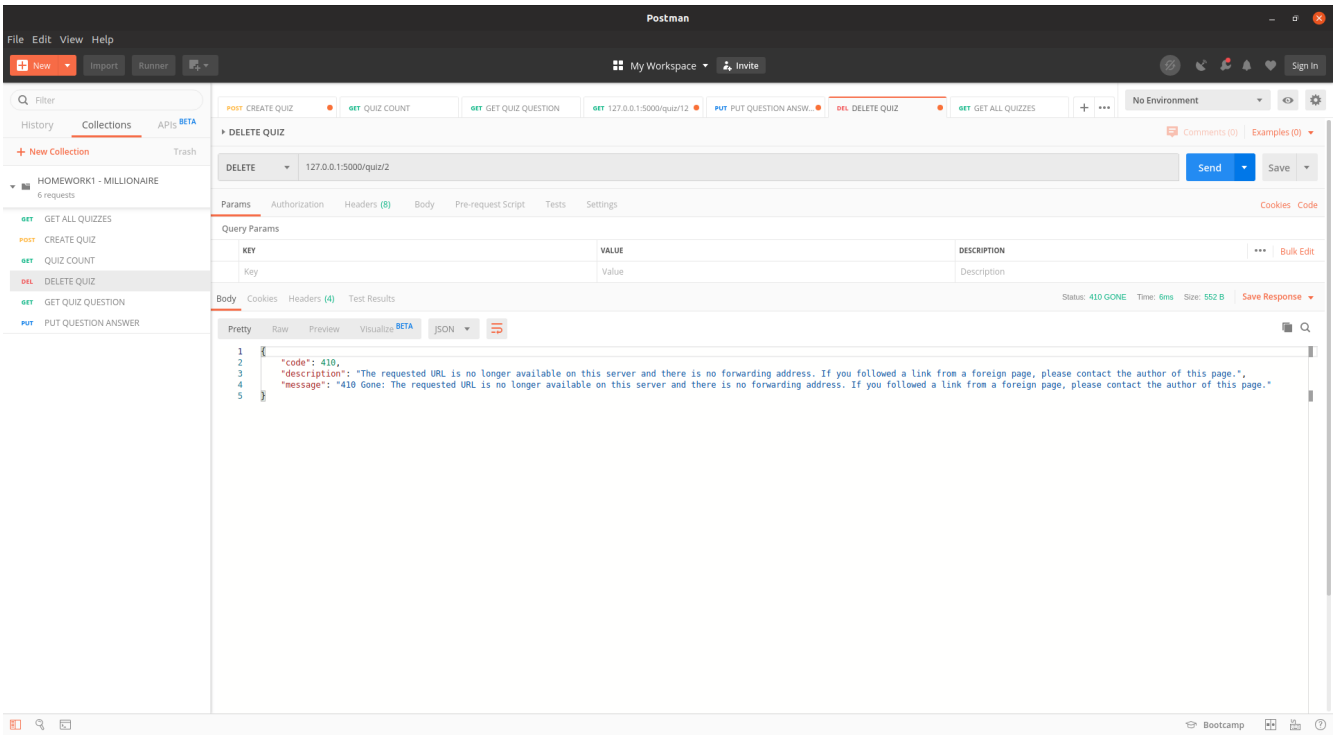

Figure 27: Test26 - Get previously existing quiz

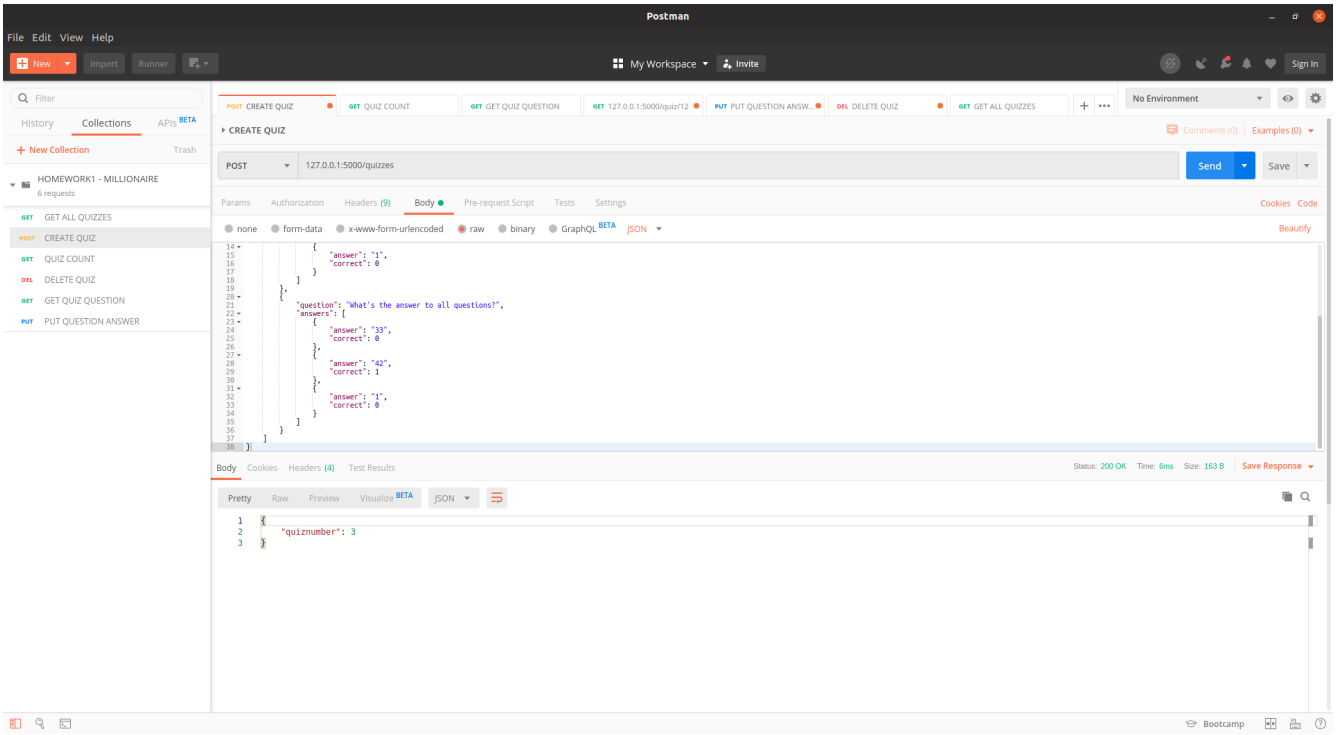

Figure 28: Test27 - Create new quiz after deletion

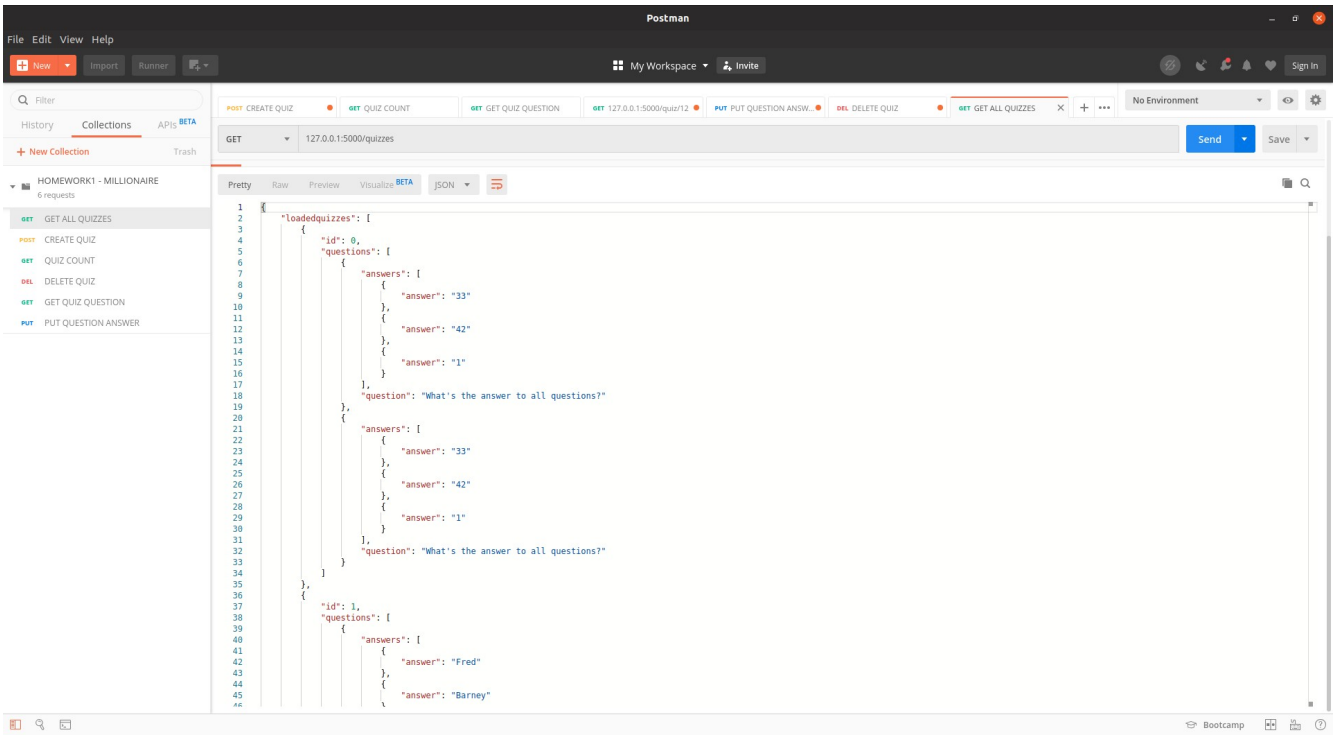

Figure 29: Test28 - Get all loaded quizzes

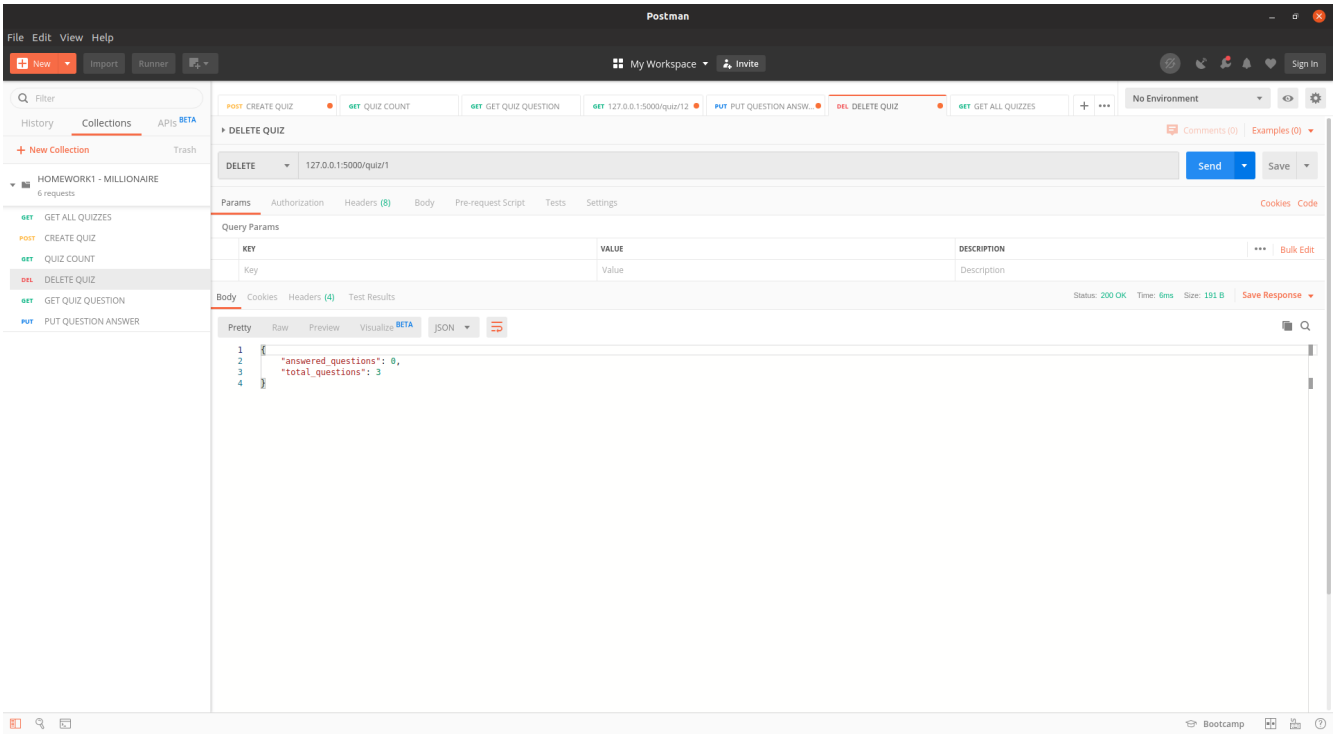

Figure 30: Test29 - Delete quiz