CSI 5112: Software Engineering

API GUIDE

Shoppers-Marketplace-Group 13

The API can be tested using our **Postman Collection**.

Initial Steps to test the API:

1) Download "marketplace_services_CSI5112.postman_collection.json" and "TESTS-marketplace_services_CSI5112.postman_collection.json" from GitHub **/QA** folder and import it to Postman.

2) Add a new environment named env.

3) Change the Environment variable as

Key:	**url**
Value:	**https://localhost:7136/api** or **http://3.93.177.49/api**

4) Change the Environment to env for running the Test

List of Endpoints

1. Users:

https://localhost:7136/api/User

2. Product:

https://localhost:7136/api/Product

3. Category:

https://localhost:7136/api/Category

4. Order:

https://localhost:7136/api/Order

5. Question:

https://localhost:7136/api/Question

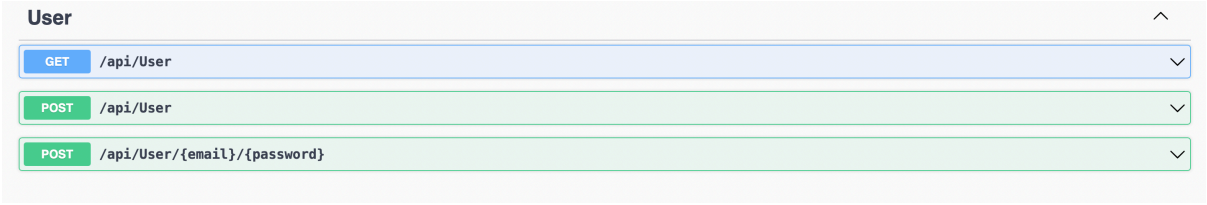
6. Answer:

https://localhost:7136/api/Answer

Note: All API Parameters are Path Parameters.

Detailed Description of Endpoint API

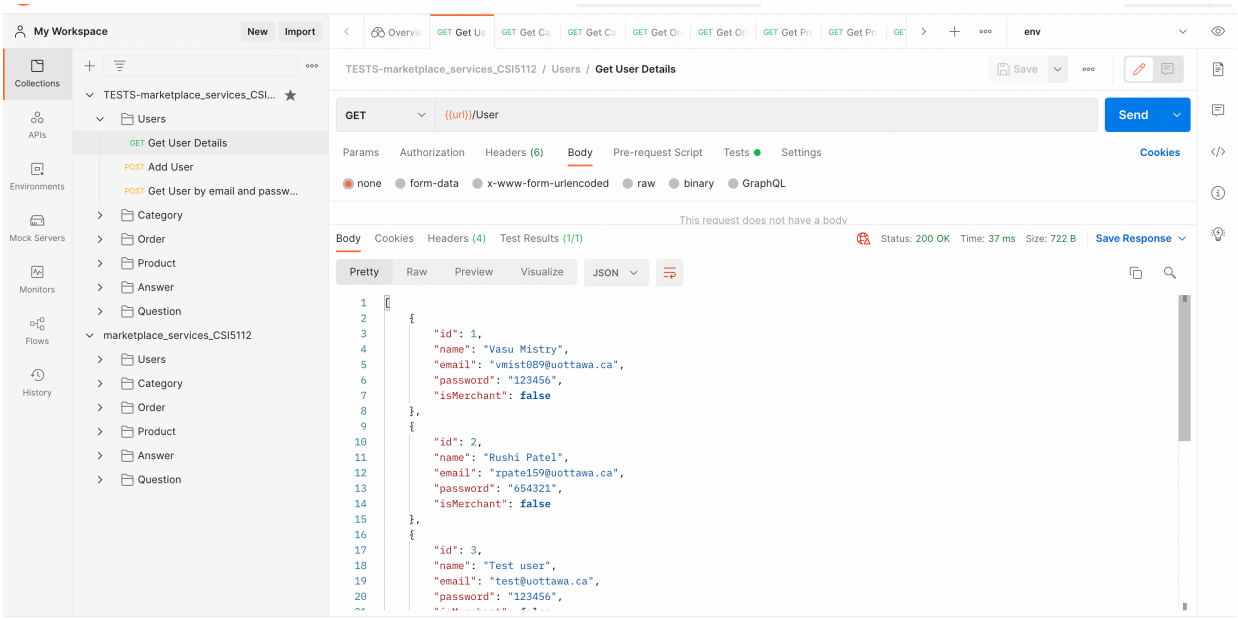
1)Users



1.1) **Get Users**:

https://localhost:7136/api/User

Whenever Users are found, postman will get the results and test will be passed with status code 200



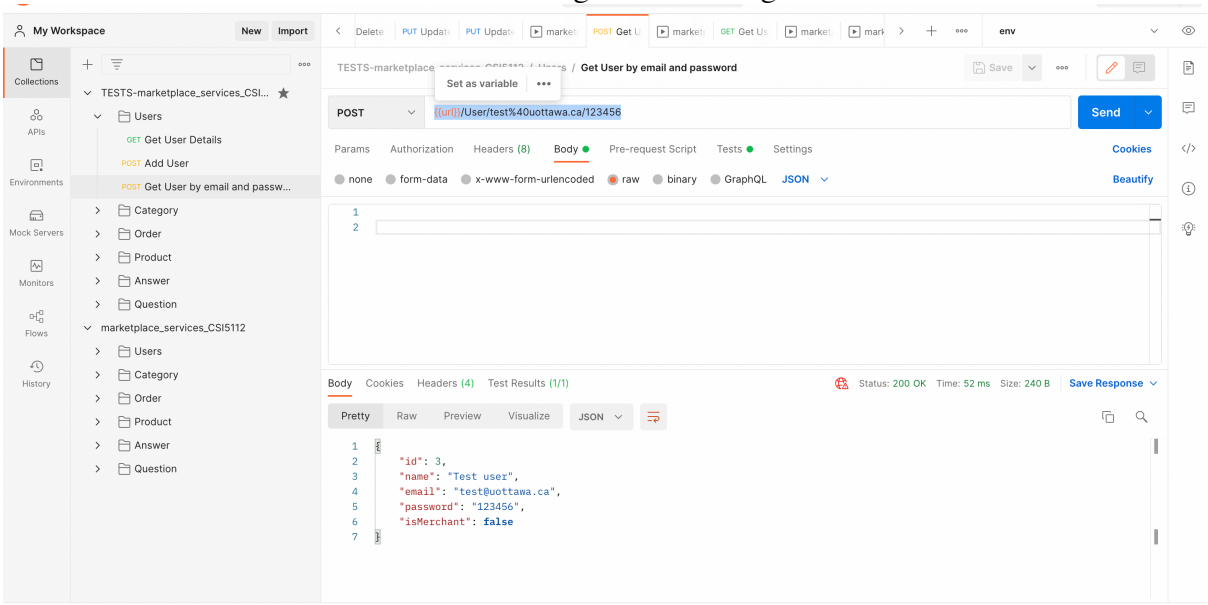
Whenever Users are not found, postman will not be able to get the results and Status code 404 (Not Found) will be generated.

1.2) **Get Users by Email and Password**:

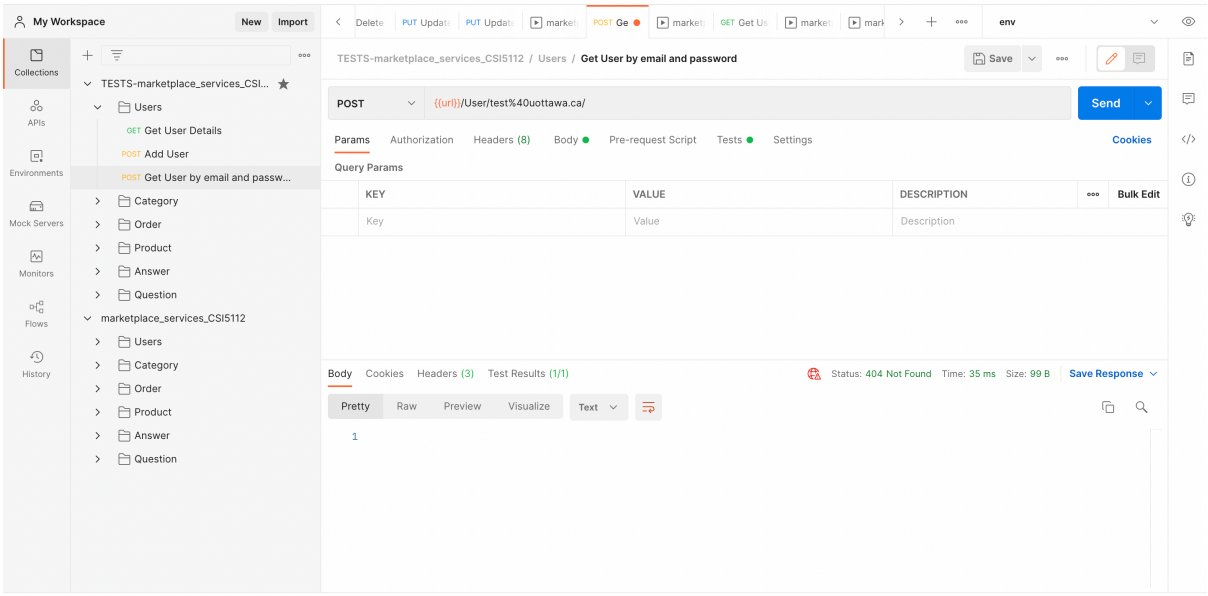
For Testing this API, User need to enter email and password in order to fetch the particular User.

https://localhost:7136/api/User/test%40uottawa.ca/123456

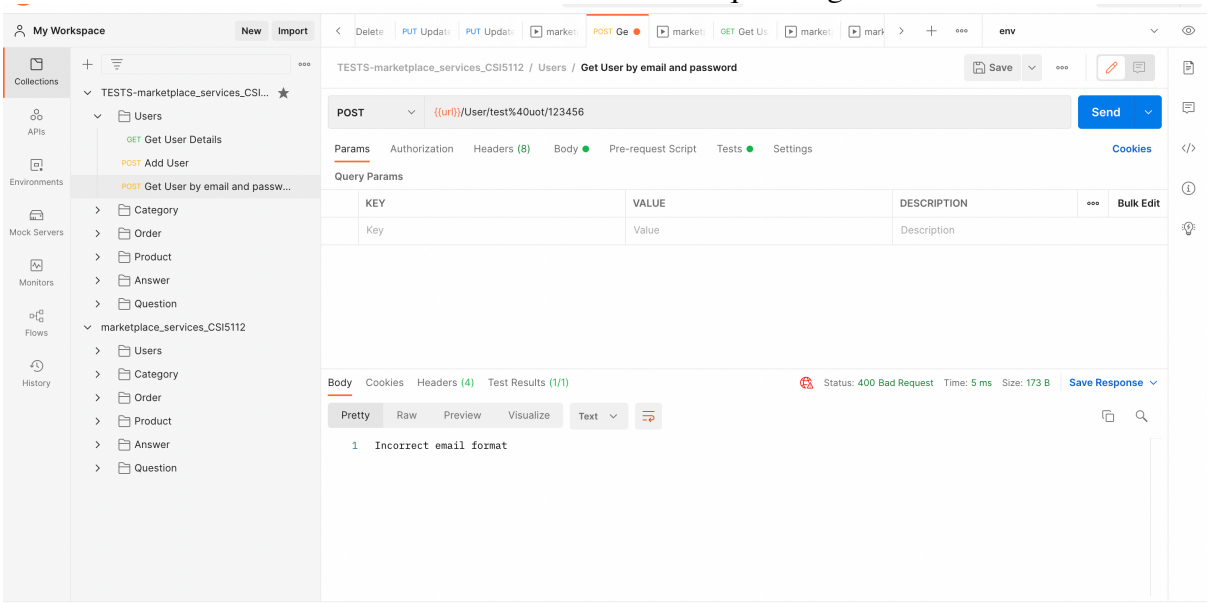
If the user if found: Status Code 200 will be generated along with their details.



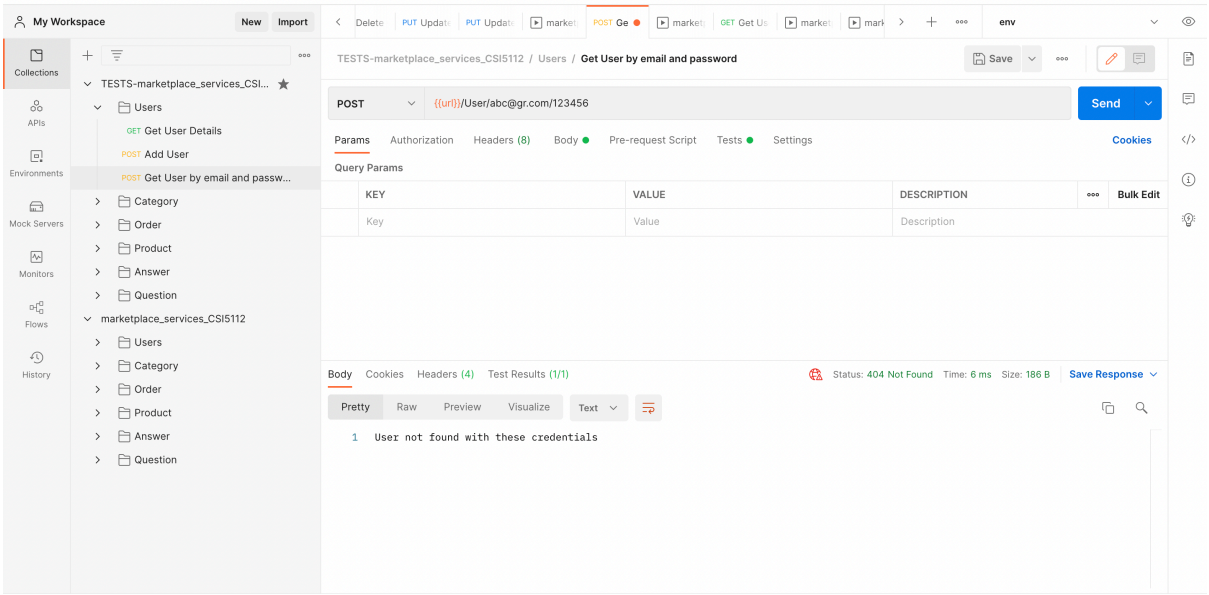
Status Code 404 (Not Found) is generated if any field is null.



If the email is in incorrect format status code 400-bad request is generated.



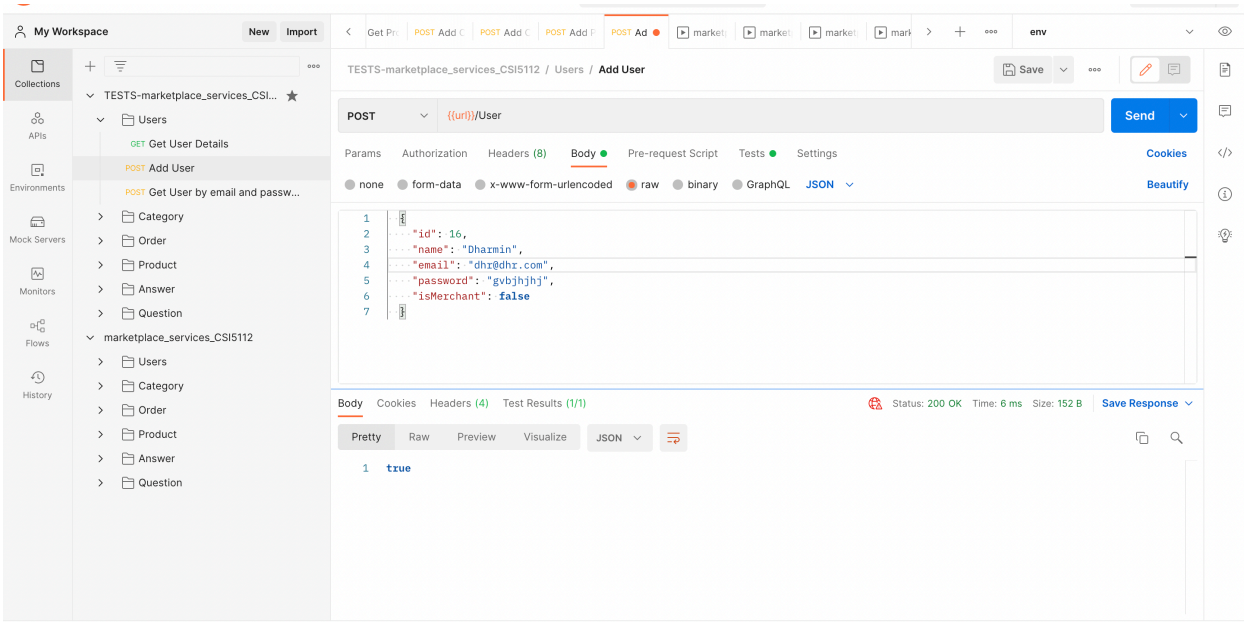
If the User Does not exist, status code 404 Not found is generated.



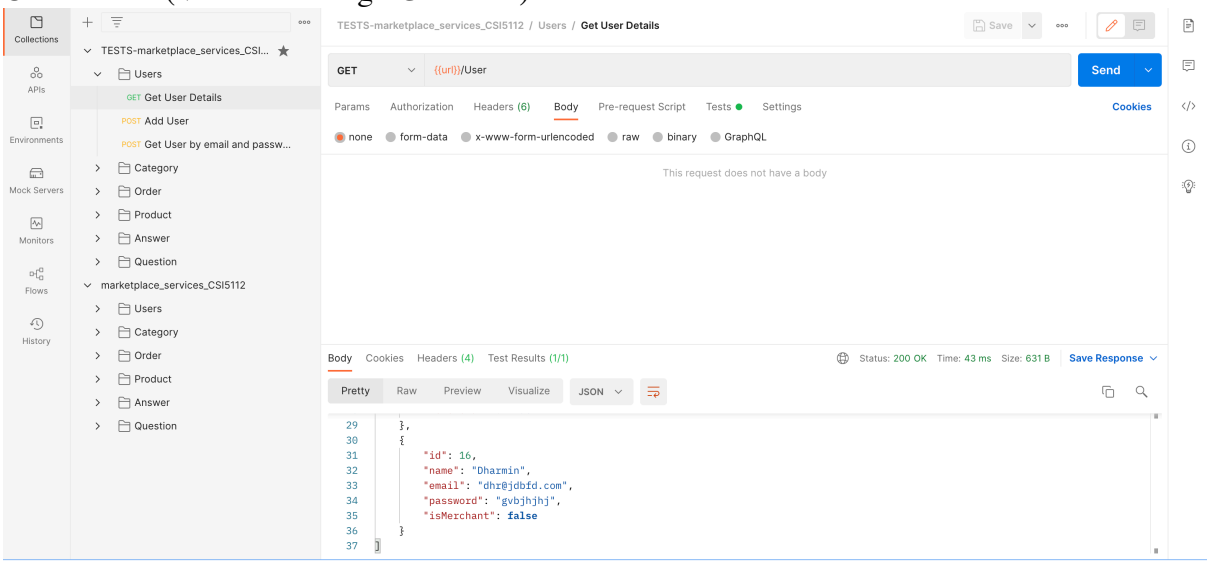
1.3) **Post/Add User Details**:

For this API, we need to add the user details in the “Body”, which will get added Successfully with status code 200.

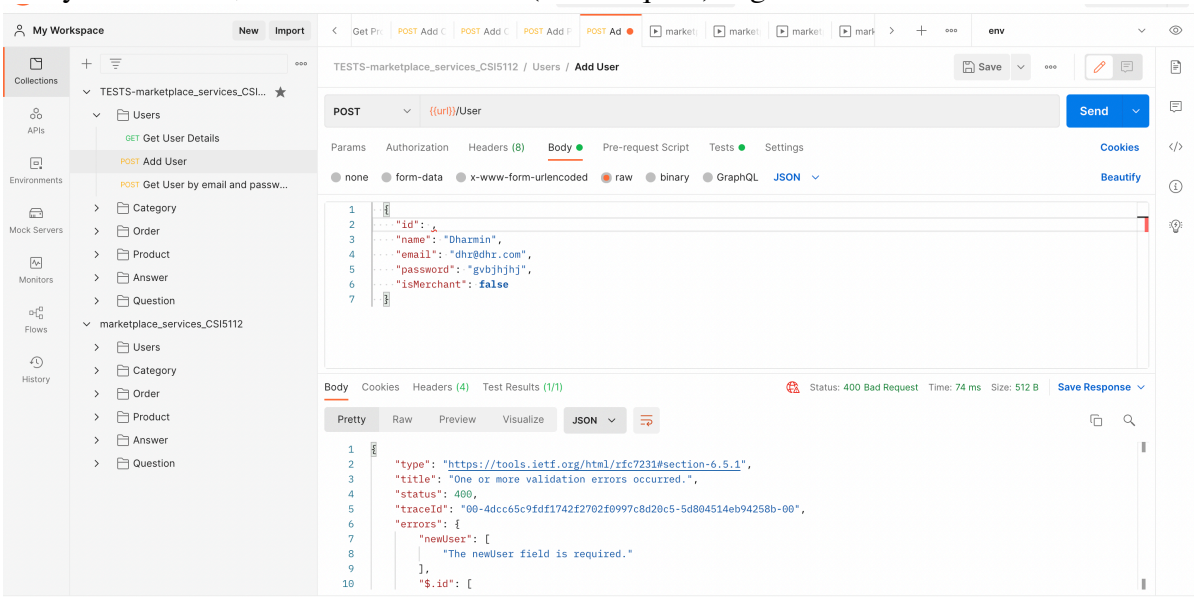
https://localhost:7136/api/User



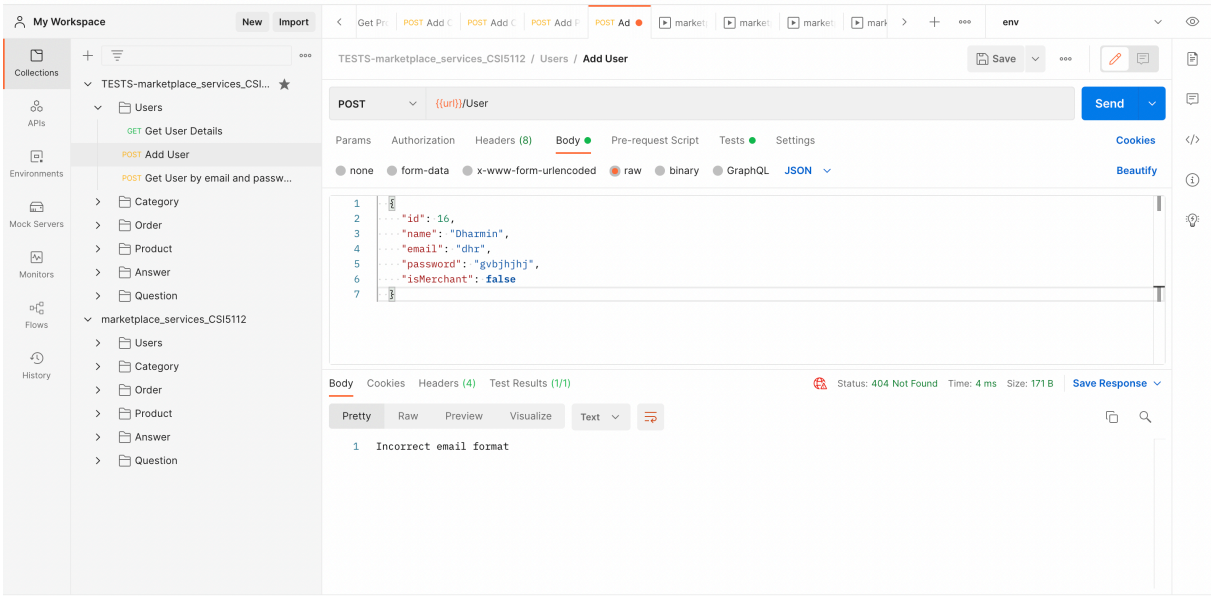
User Added (Verified through GET API)



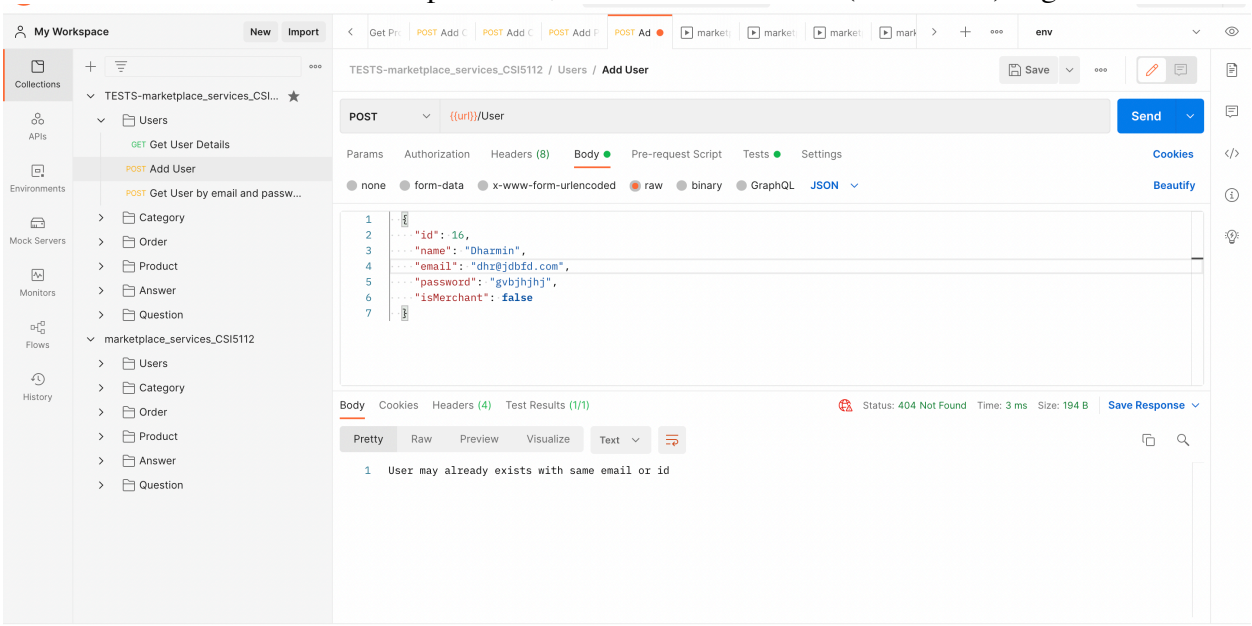
If any field is null, then Status Code 400 (Bad Request) is generated:



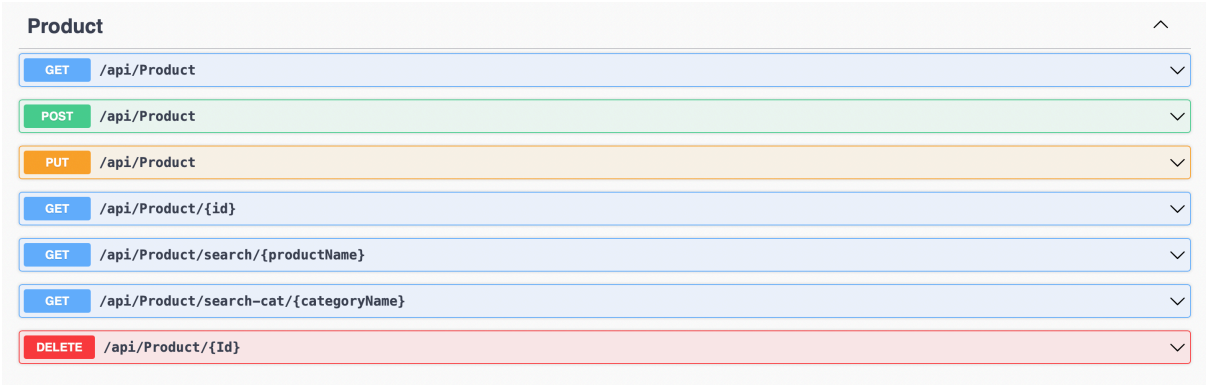
If email is in wrong format, Status Code 404 (Not Found) is generated:



If User Exist with same email or password, then Status Code 404 (Not Found) is generated:



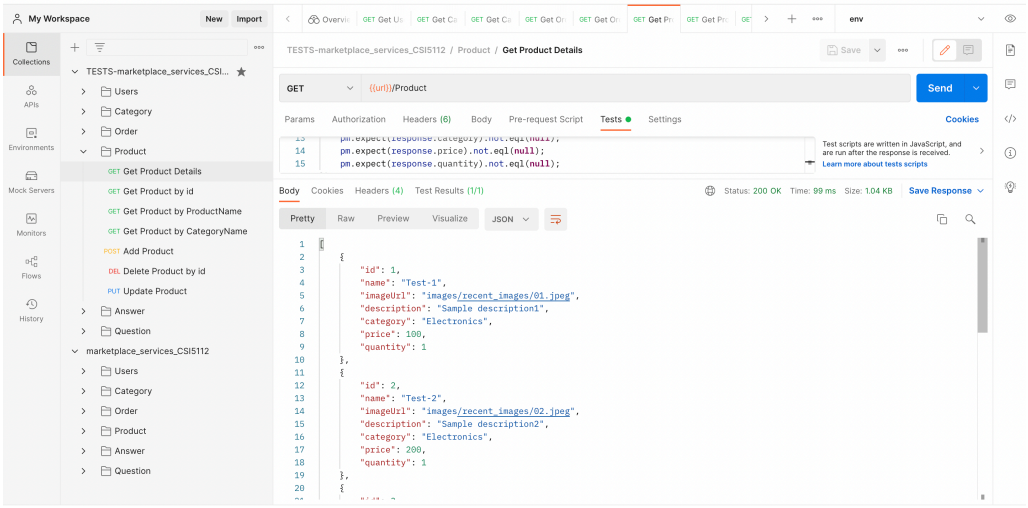
2) **Product**



2.1) **Get Product**

https://localhost:7136/api/Product

If the products are found, status code 200 will be generated, and products will be fetched.

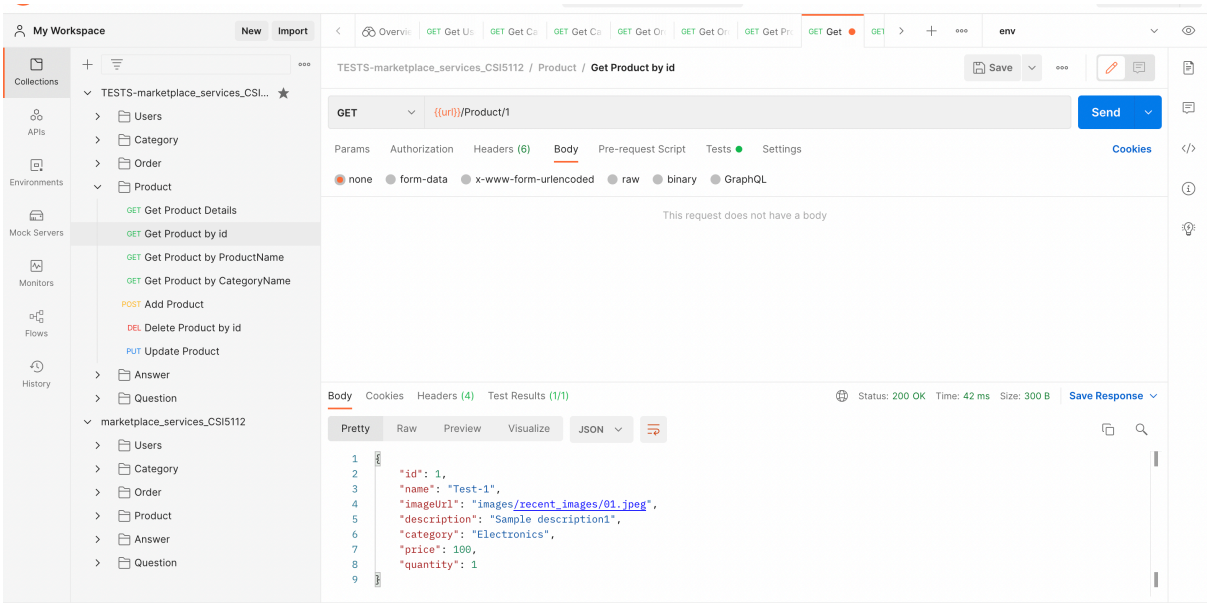


If no products are found, Status Code 404 (Not Found) will be generated.

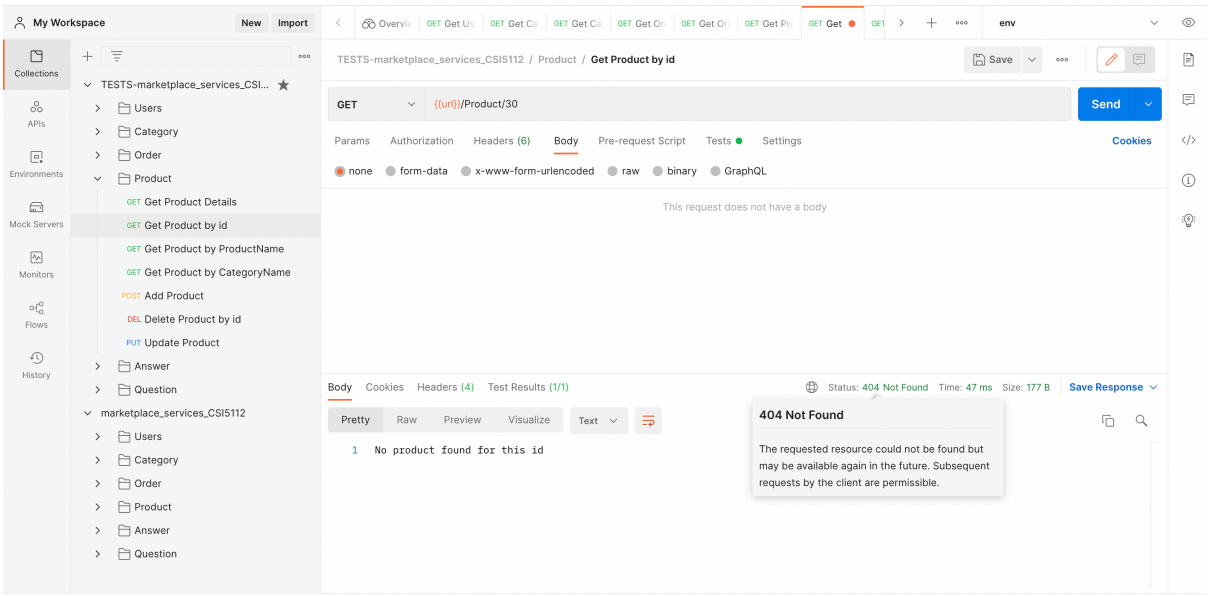
2.2) **Get Product by Product id:**

https://localhost:7136/api/Product/1

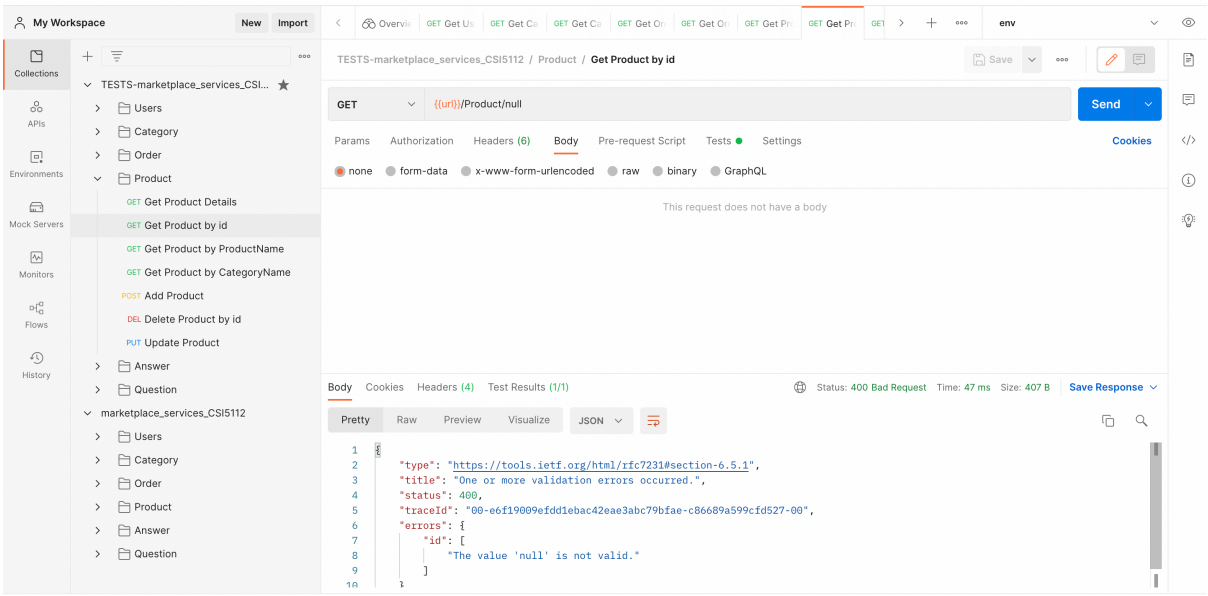
If the product id entered is correct, that particular product will be fetched and status code is 200.



If the product id is wrong Status code 404(Not found) is generated.



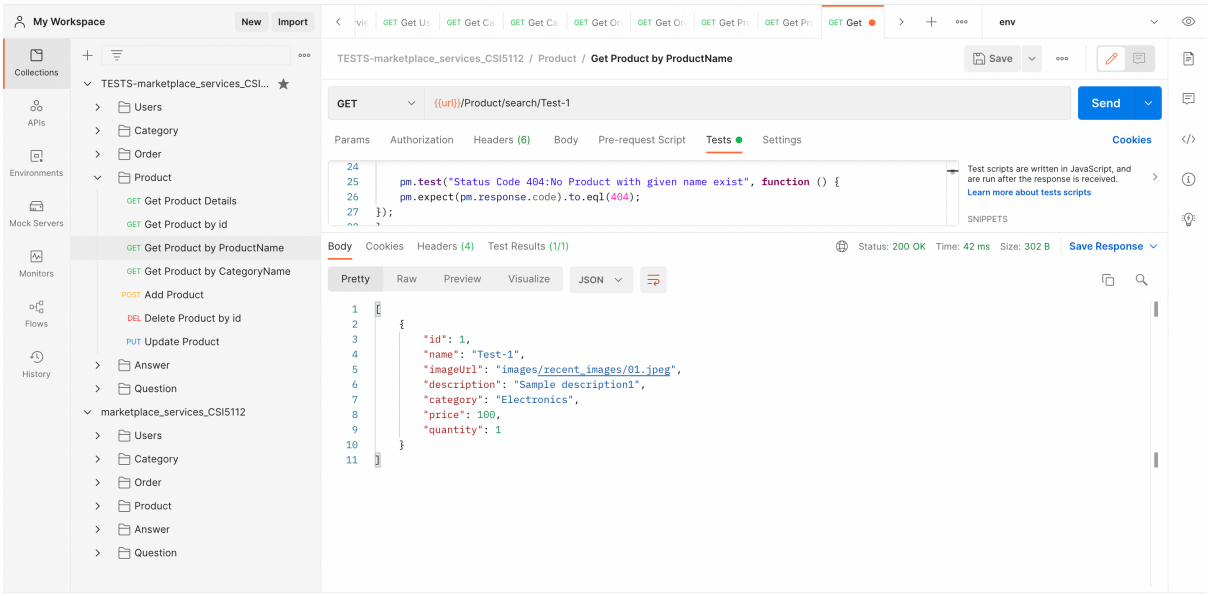
If the Product Id is null, Status Code 400(Bad Request) is generated



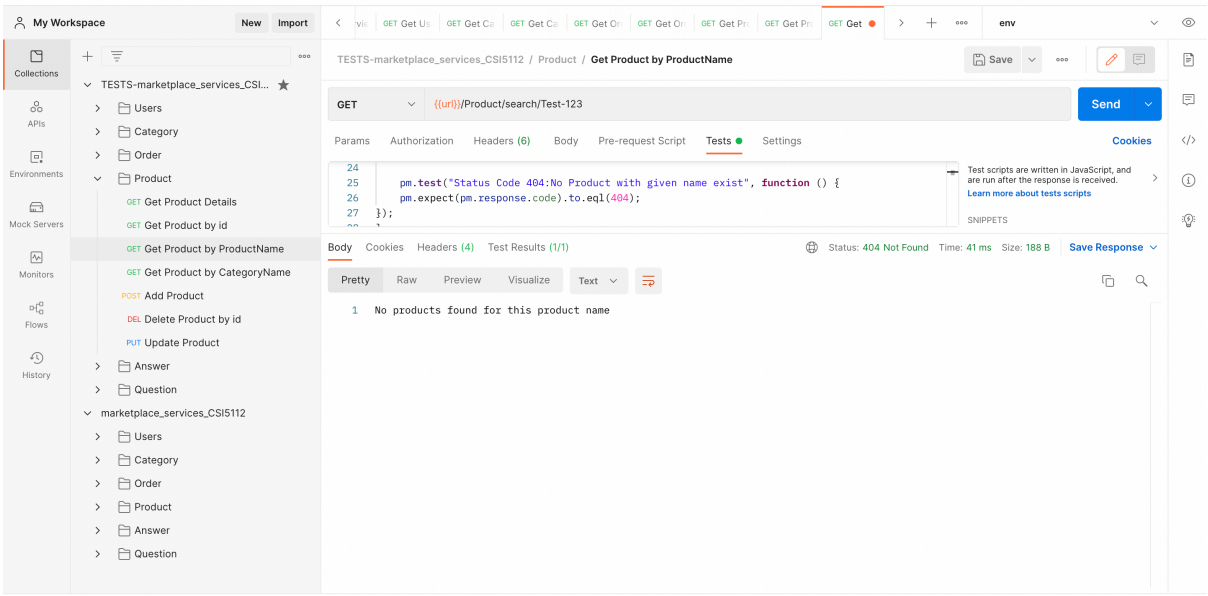
2.3) **Get Product by Product Name**:

https://localhost:7136/api/Product/search/Test-1

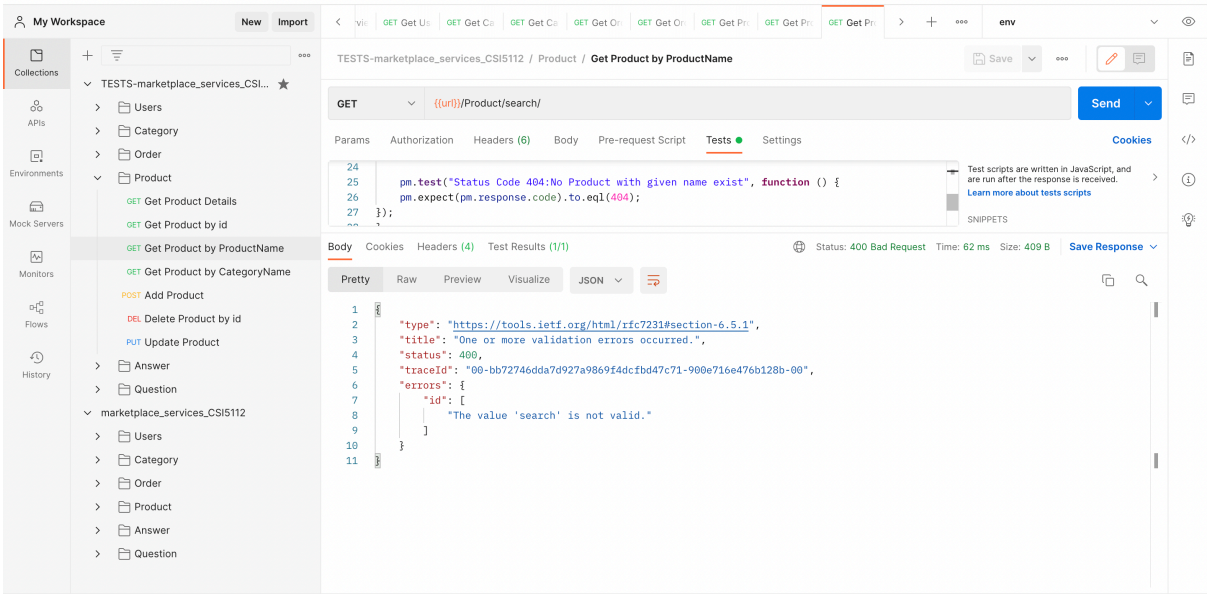
If the Product name is correct, it will generate list of products with status code 200.



If the product is not found, Status Code 404(Not Found will be generated).



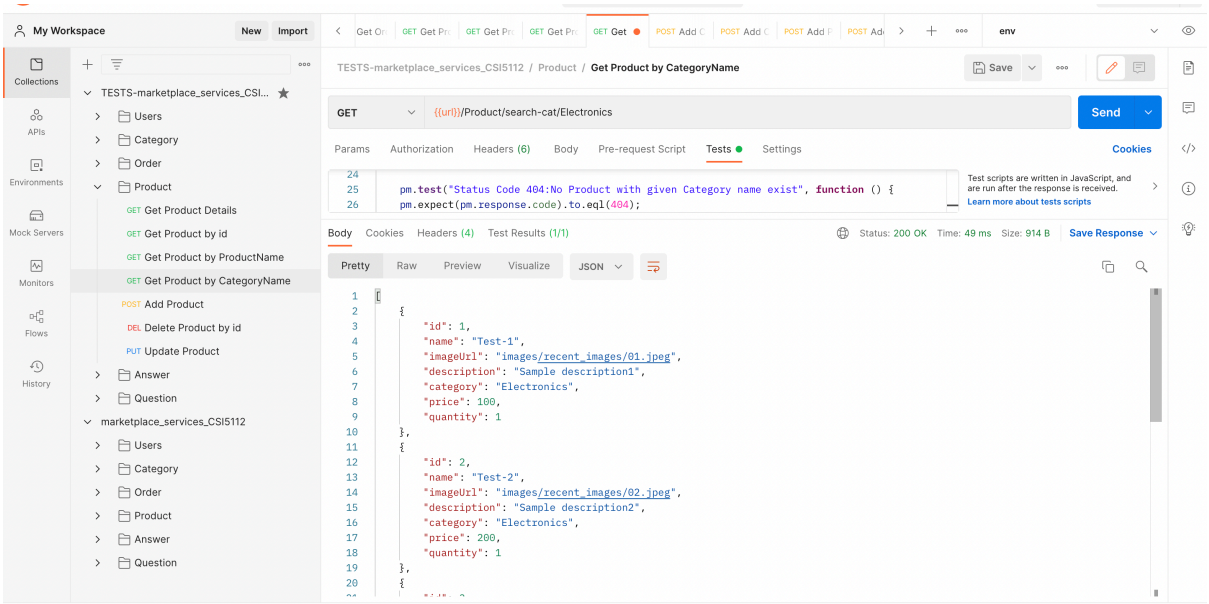
If the Product Name is null, Status Code 400(Bad Request) will be generated



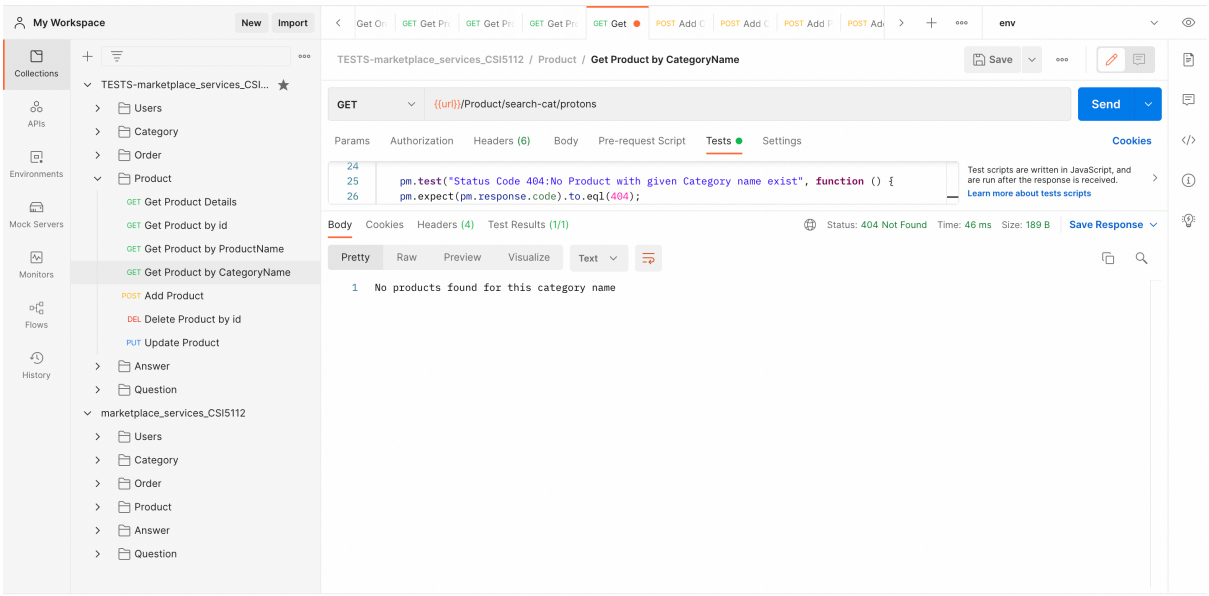
2.4) **Get Product by Category Name:**

https://localhost:7136/api/Product/search-cat/Electronics

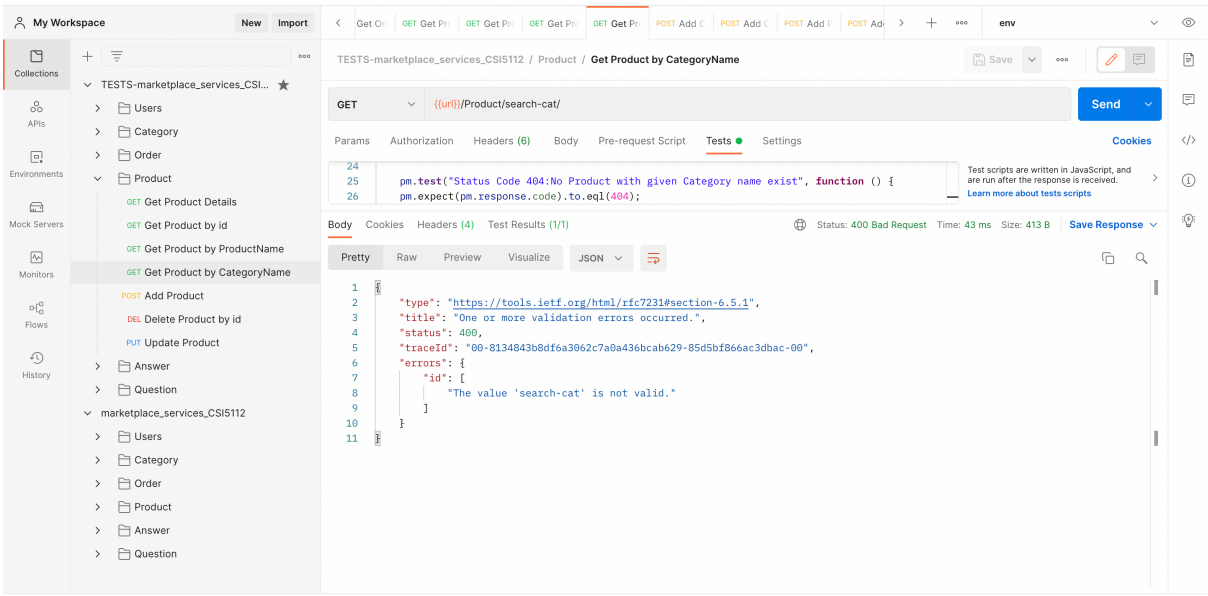
If the Category Name is correct, it will return list of products with corresponding categories with status code 200.



If the Category name is wrong, It will generate Status Code 404(Not Found).



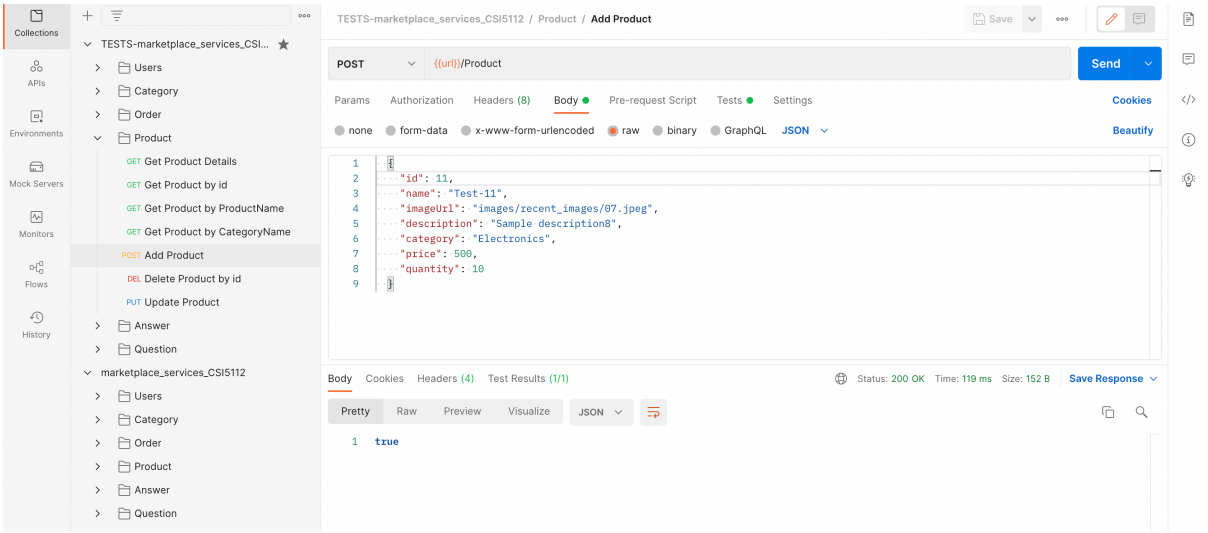
If the Category Name is null, Status Code 400 (Bad Request) will be generated.



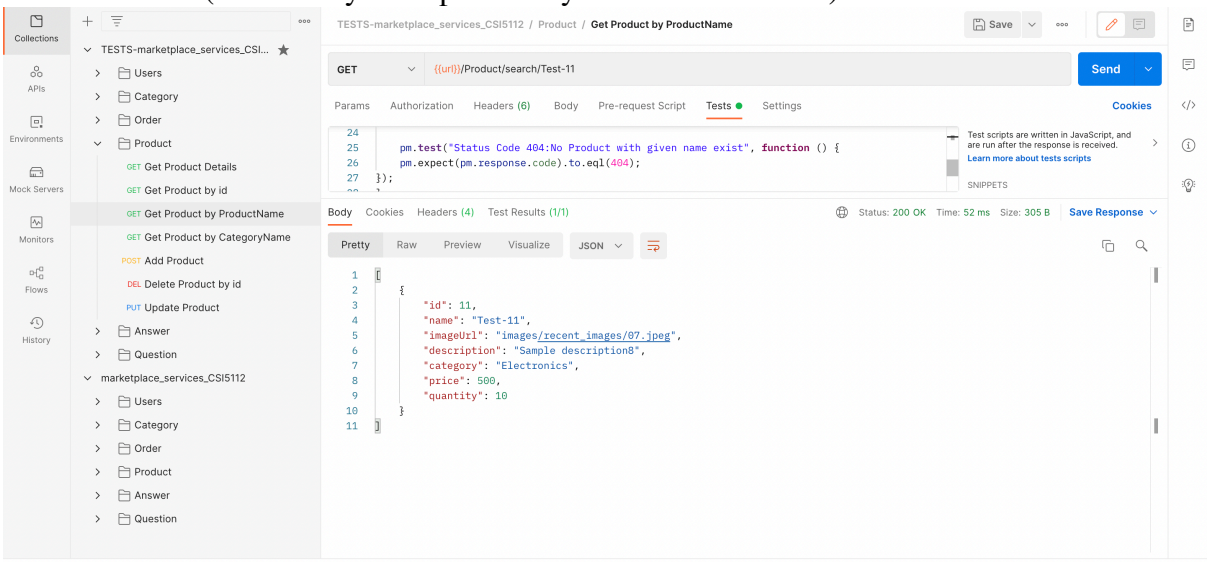
2.5) **Add product**

https://localhost:7136/api/Product

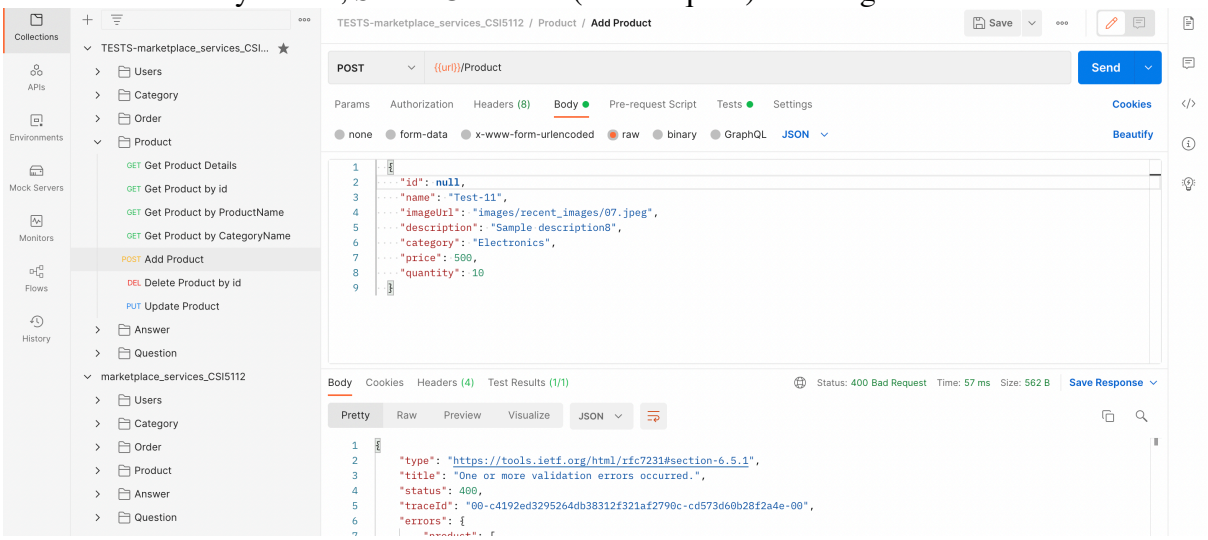
If the product body is passed without any duplication or null value, then the product is added with status code 200.



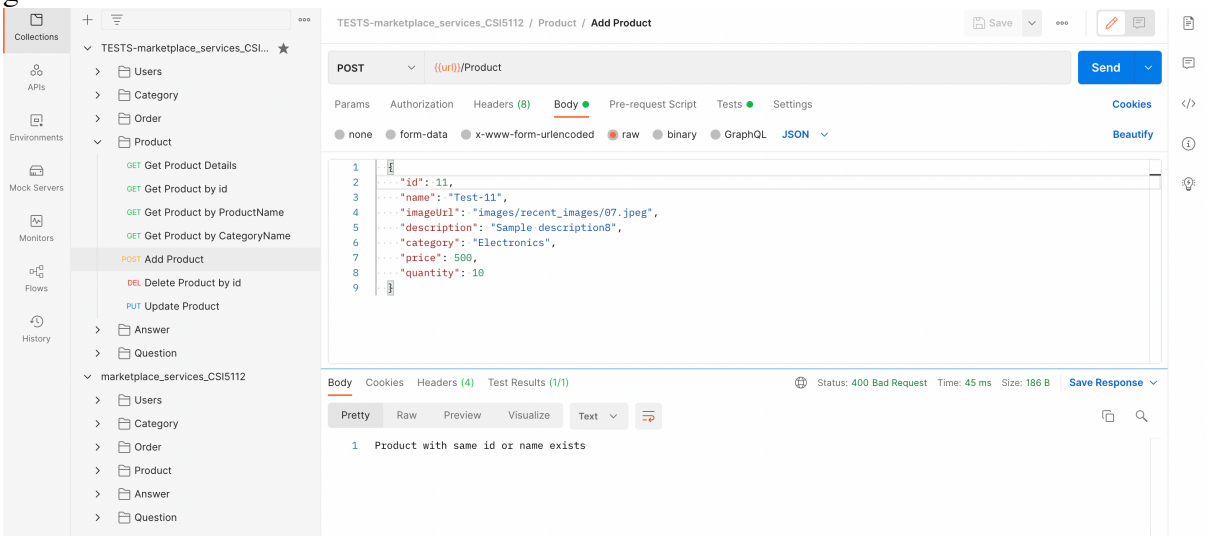
Product Added (Verified by GET product by Product Name API)



If the Product body is null, Status Code 400 (Bad Request) will be generated.



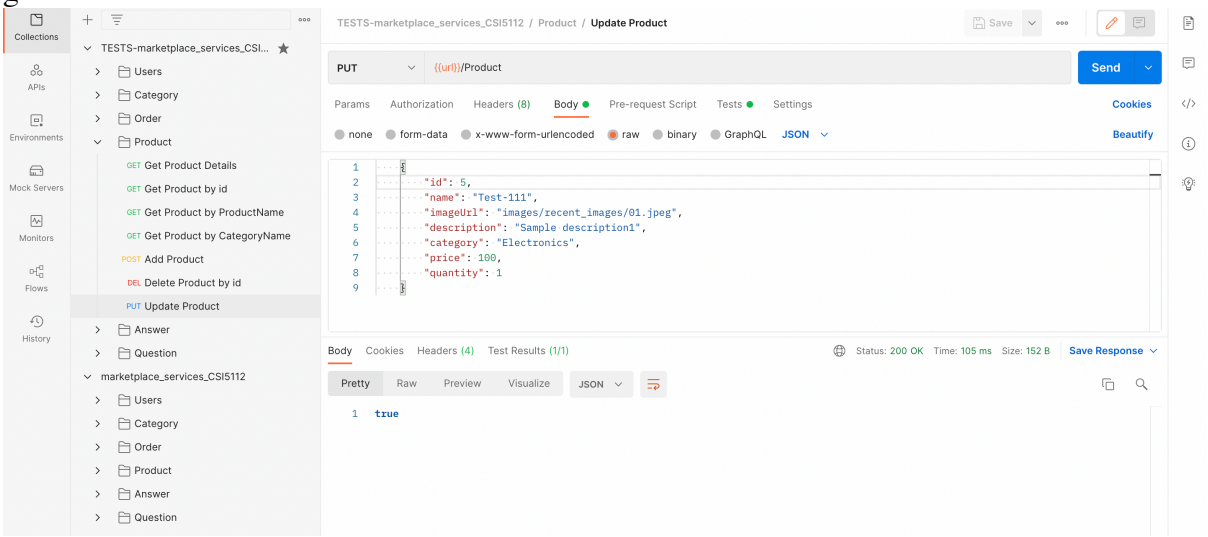
If the Product body contains duplicate items, Status Code 400 (Bad request) will be generated.



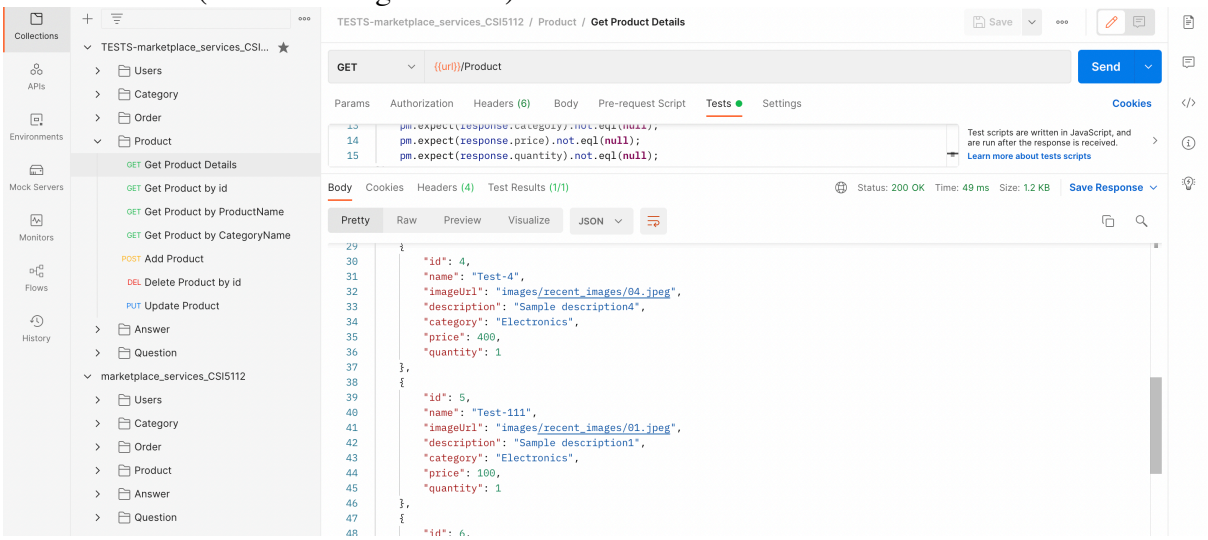
2.6) **Edit Product:**

https://localhost:7136/api/Product

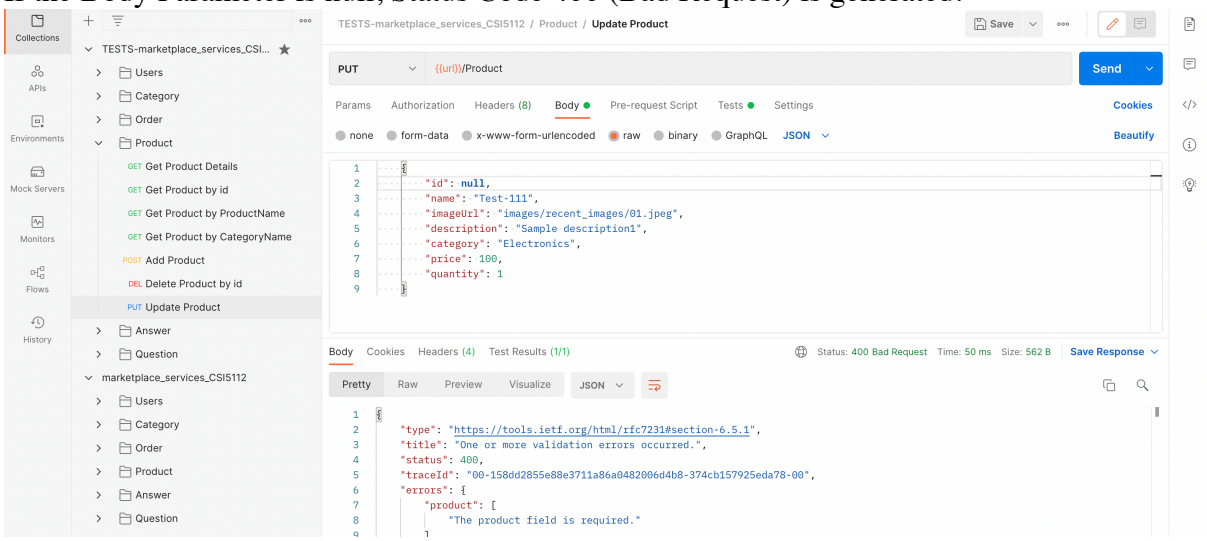
If the Body Parameter passed is validated, Product is edited, and Status Code 200 is generated.



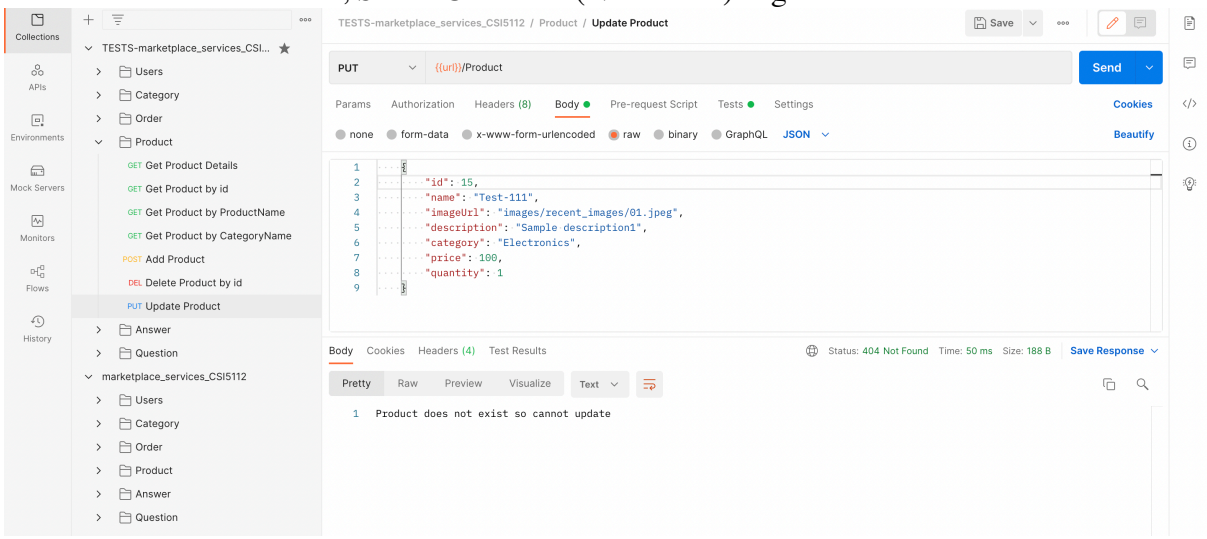
Product edited (Verified using Get API)



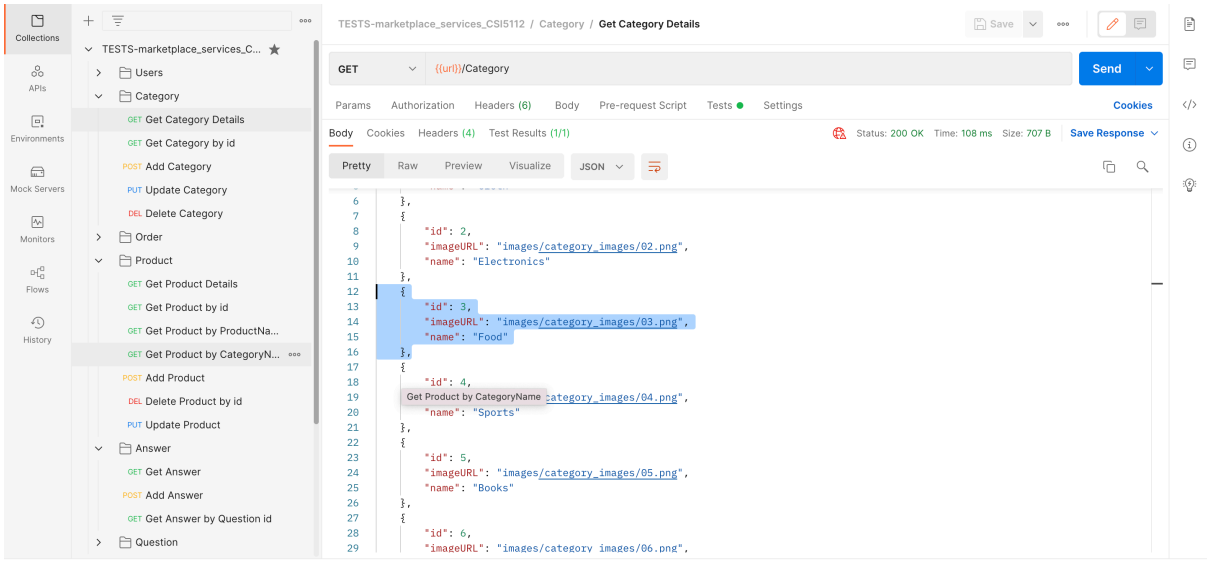
If the Body Parameter is null, Status Code 400 (Bad Request) is generated.



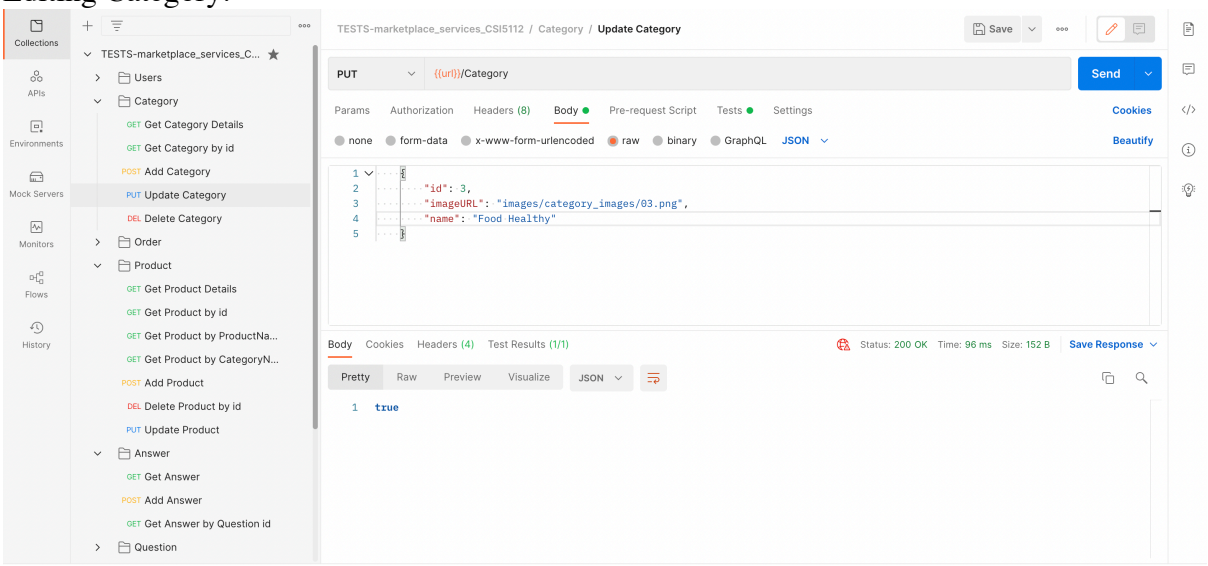
If the Product is not found, Status Code 404 (Not Found) is generated.



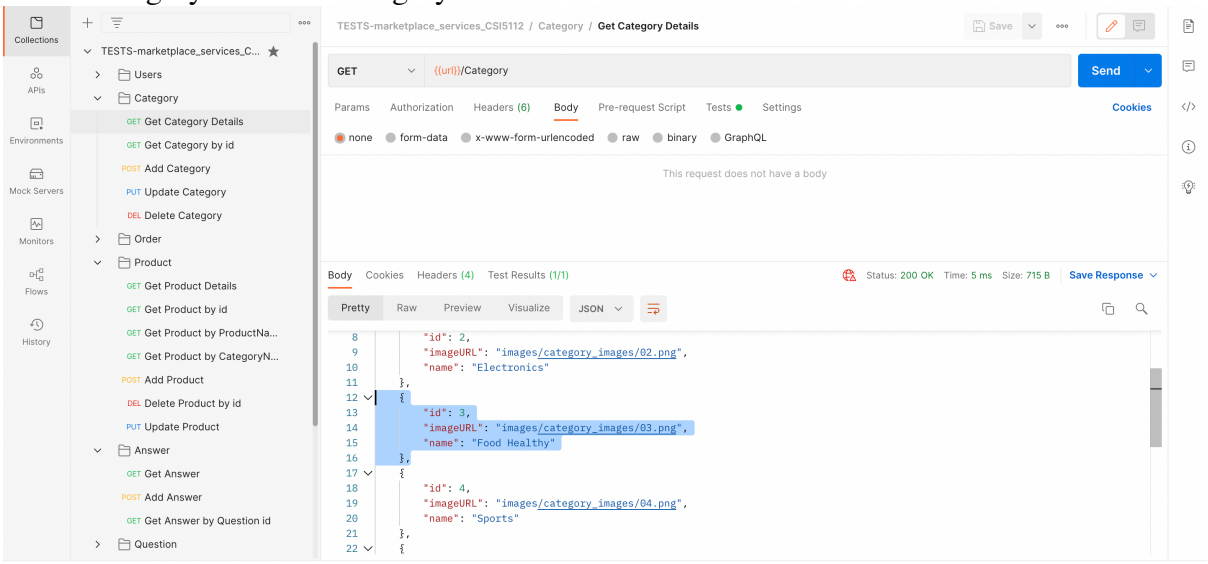
If Category is edited, it will also show edited category in product list.
Before:



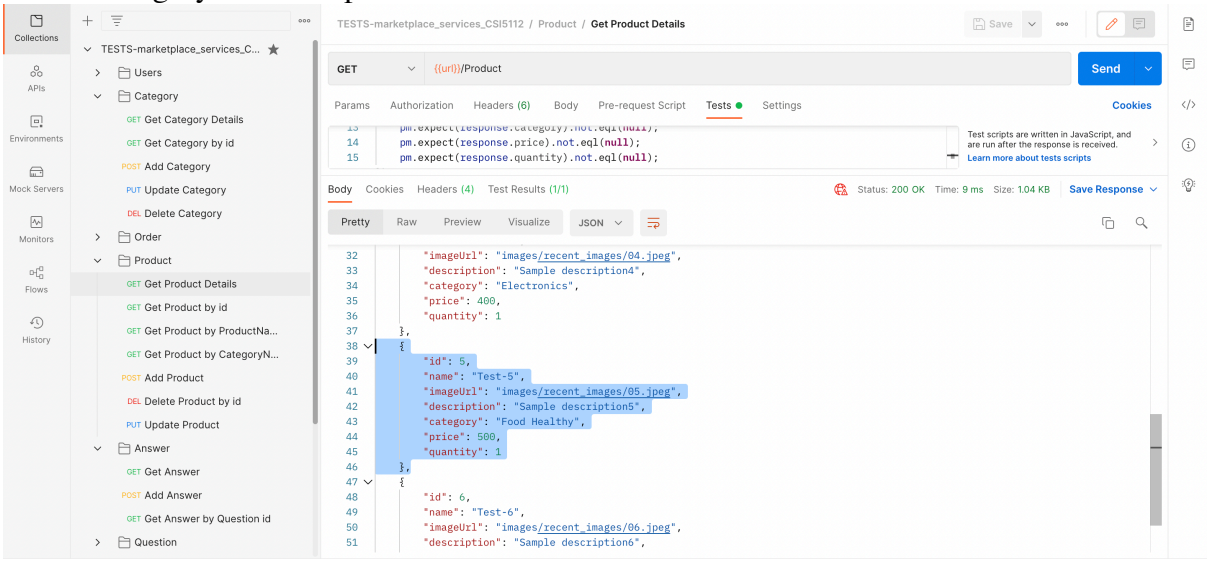
Editing Category:



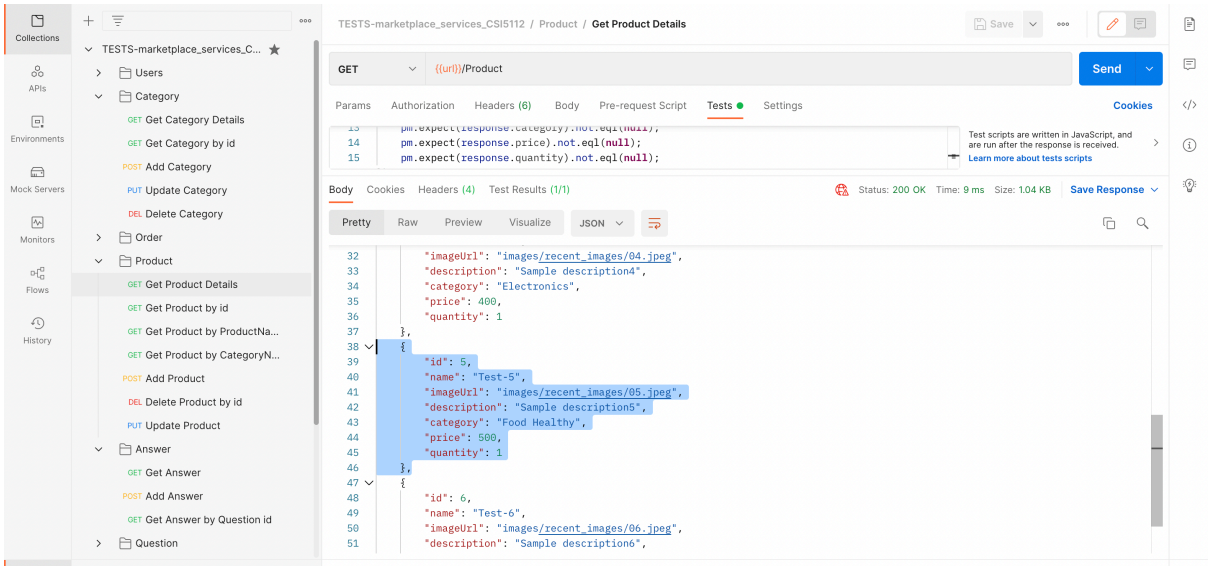
Edited category shows in Category list:

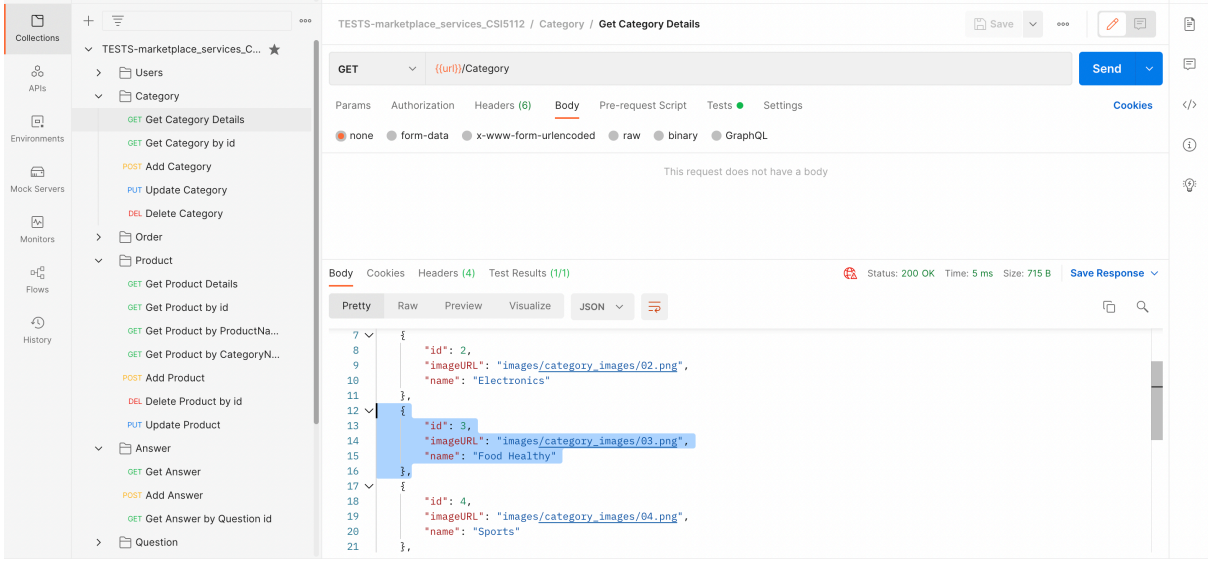


Edited Category shown in product list:

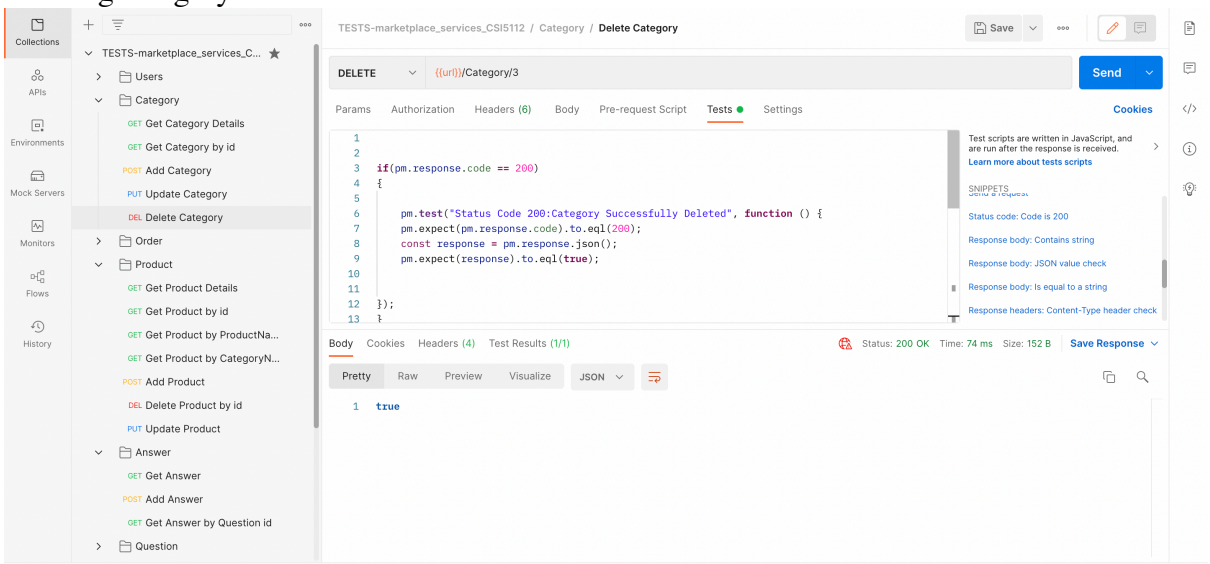


If a Category is deleted, it will also delete that category from the product list:
Before:

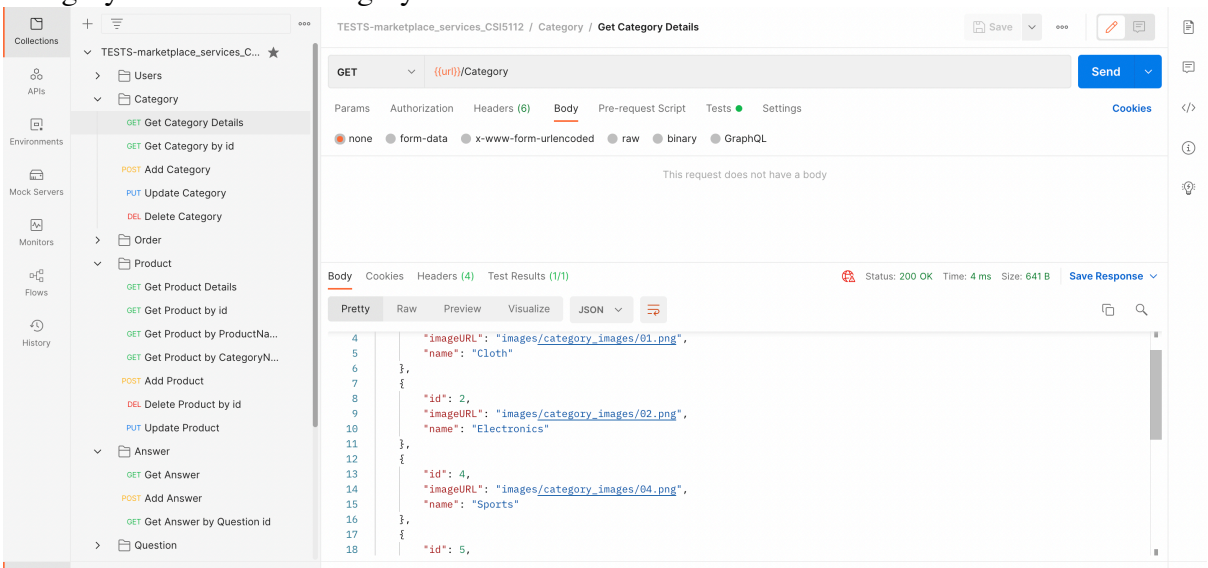


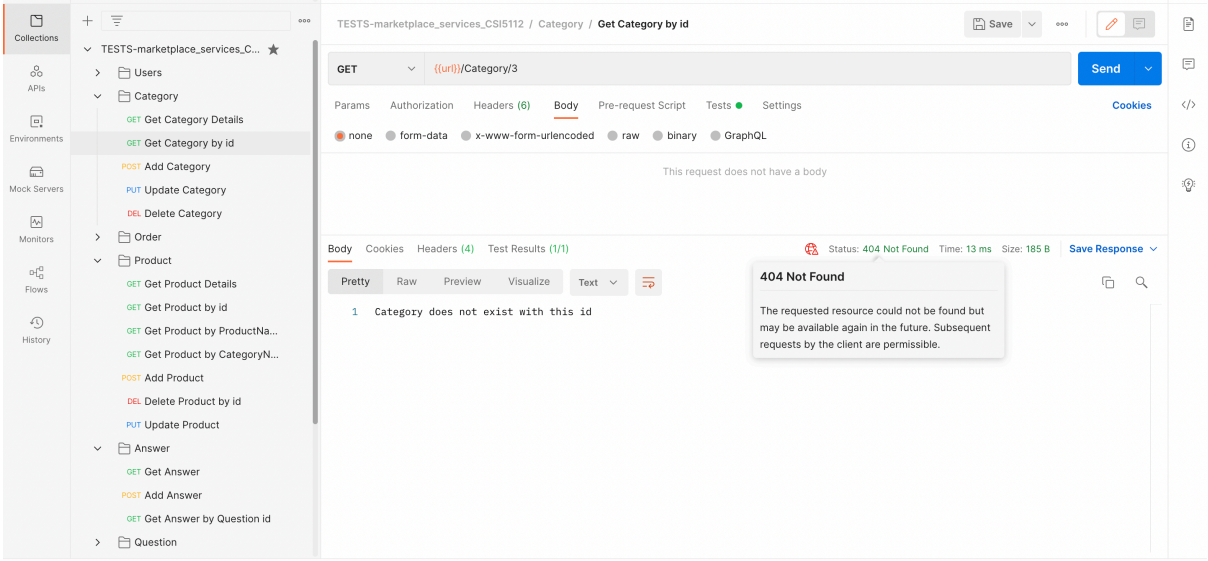


Deleting category:

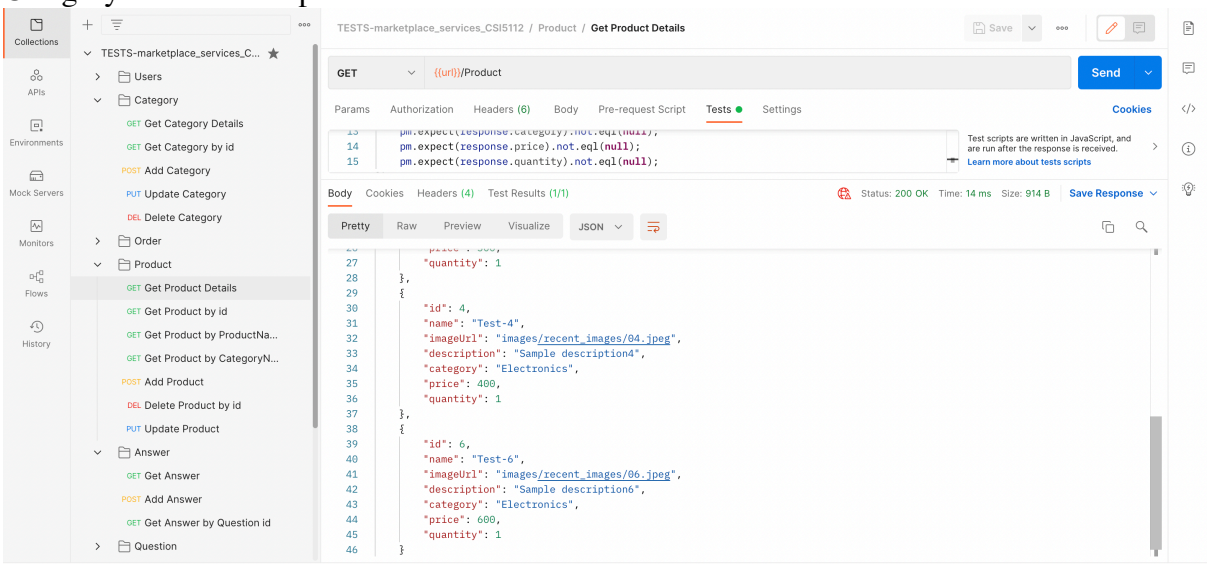


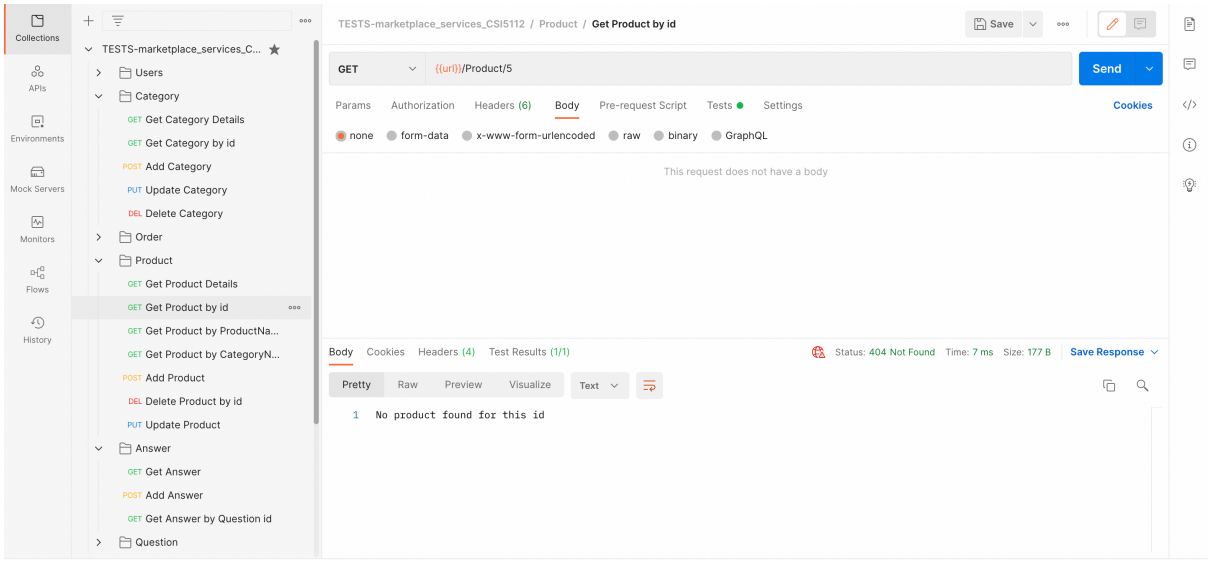
Category Deleted from category list:





Category deleted from product list as well:

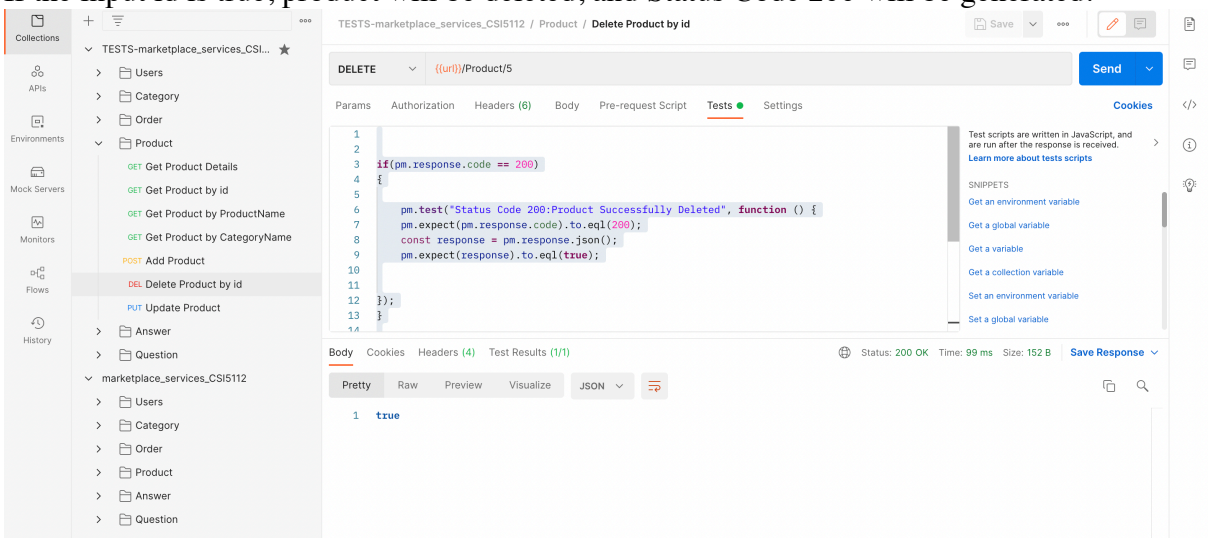




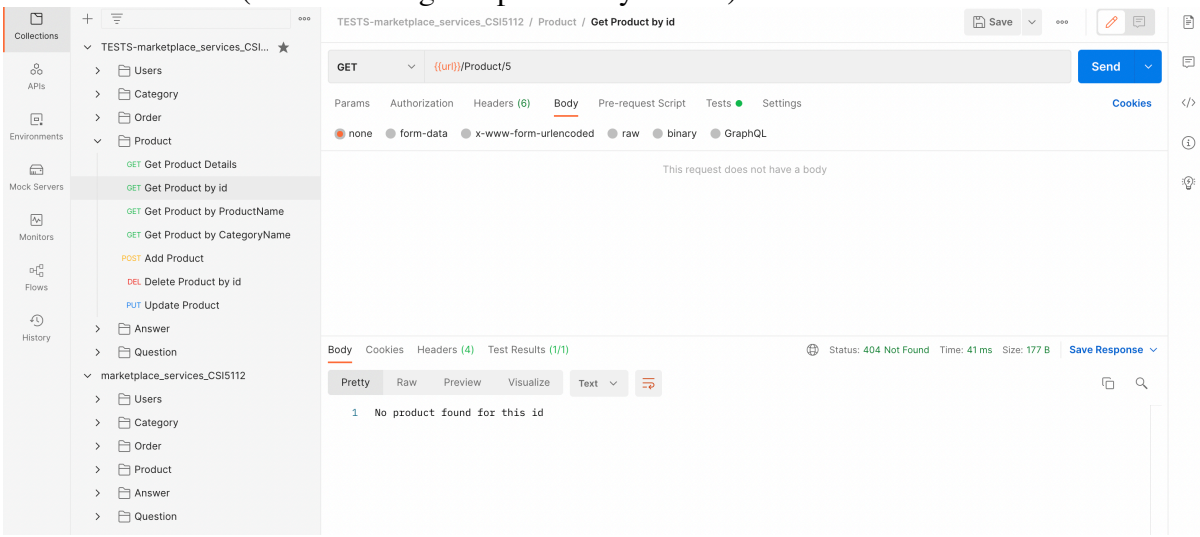
2.7) **Delete Product**:

https://localhost:7136/api/Product/5

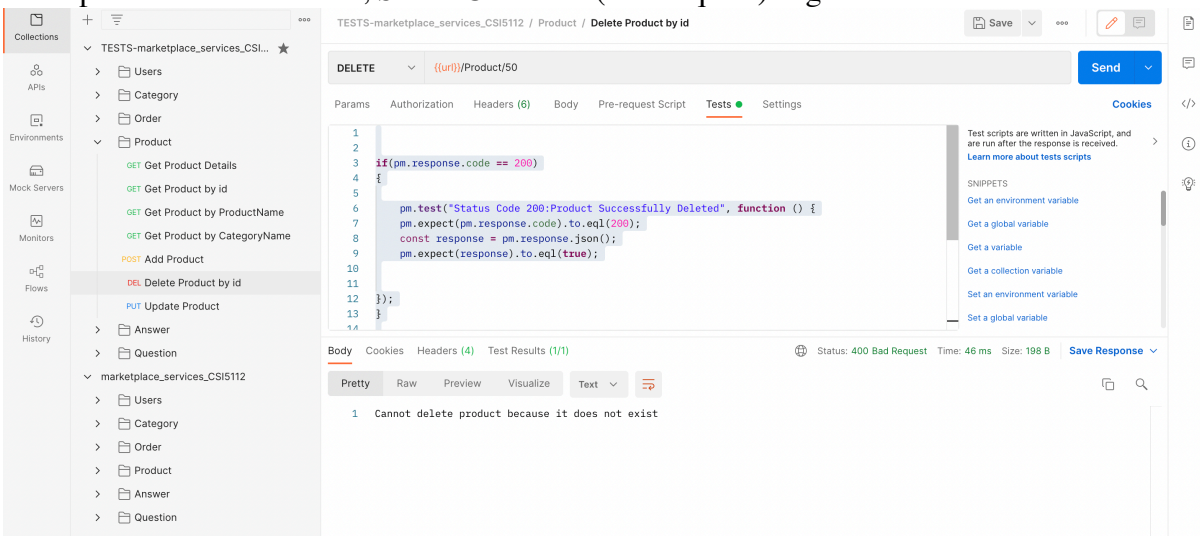
If the input id is true, product will be deleted, and Status Code 200 will be generated.



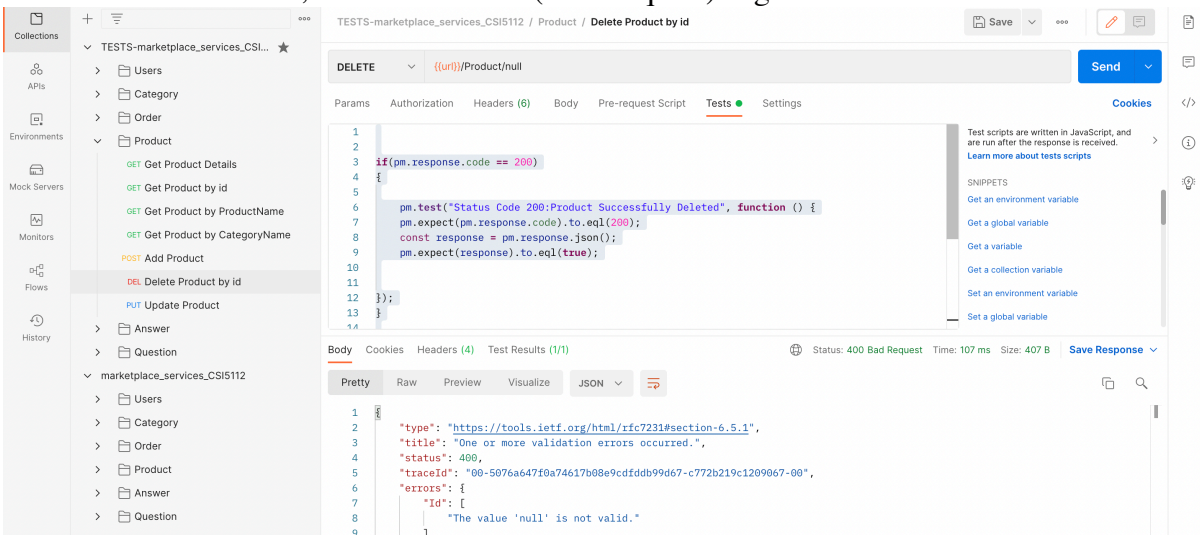
Product is deleted (Verified using Get product by id API)



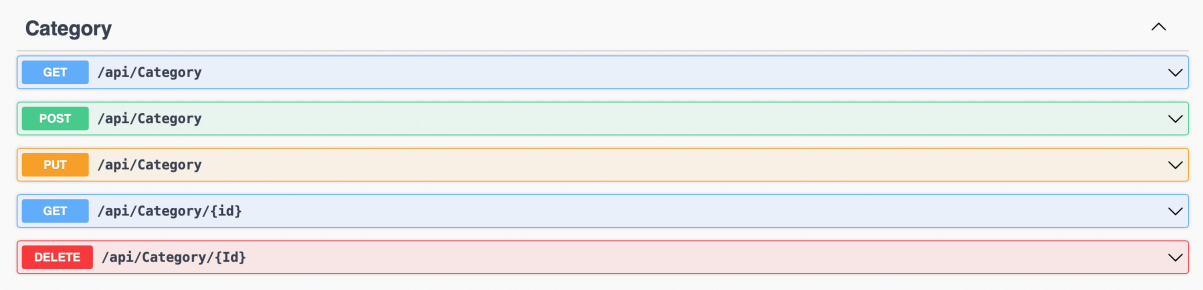
If the product does not exist, Status Code 400 (Bad request) is generated.



If the Product id is null, Status Code 400 (Bad Request) is generated.



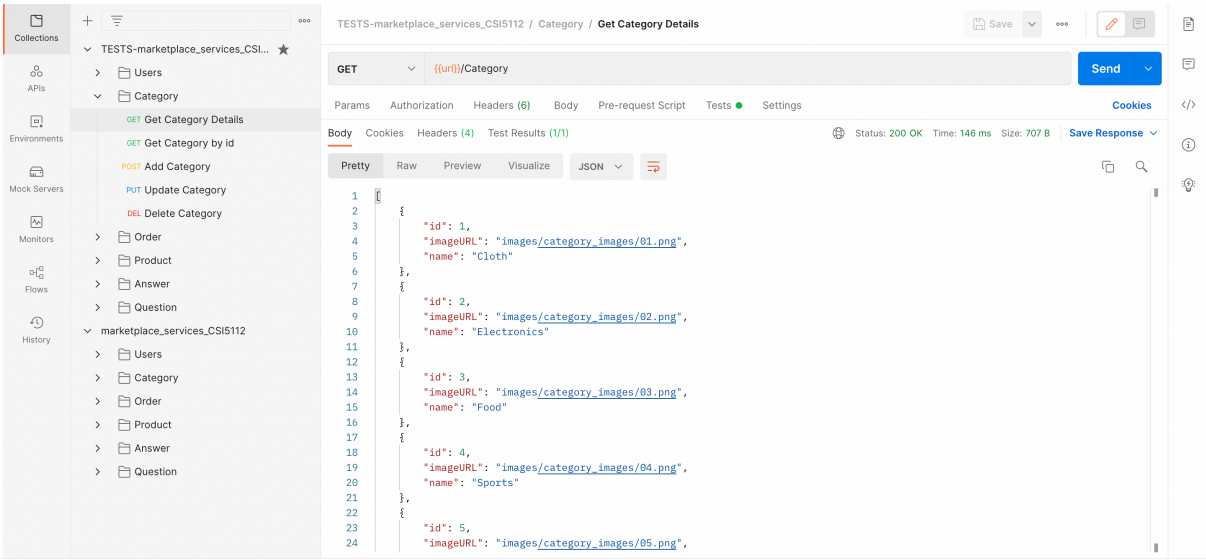
3) **Category:**



3.1) **Get Category:**

https://localhost:7136/api/Category

If the Category exist, Status Code 200 will be generated, and the list of categories will be fetched.

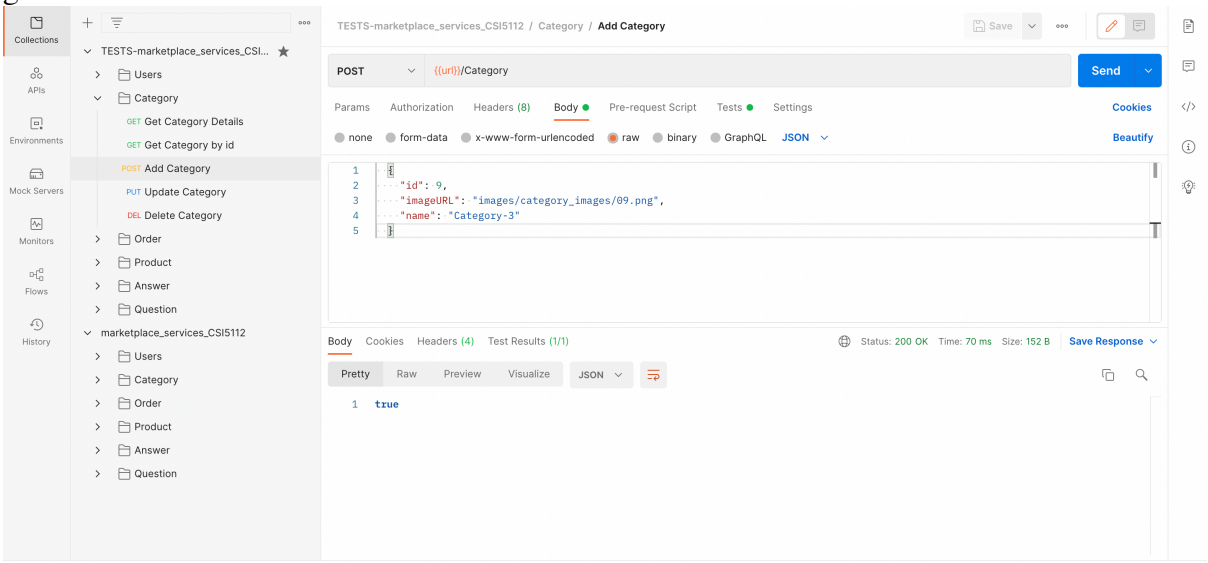


If the category is not found, Status Code 404 (Not Found) error will be generated.

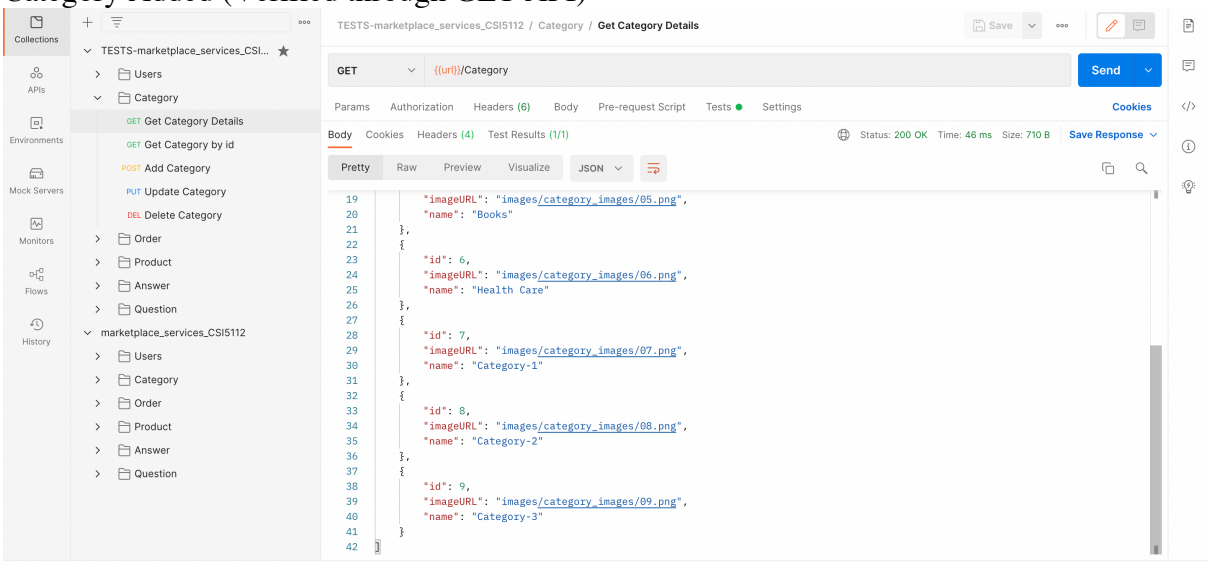
3.2) **Add Category:**

https://localhost:7136/api/Category

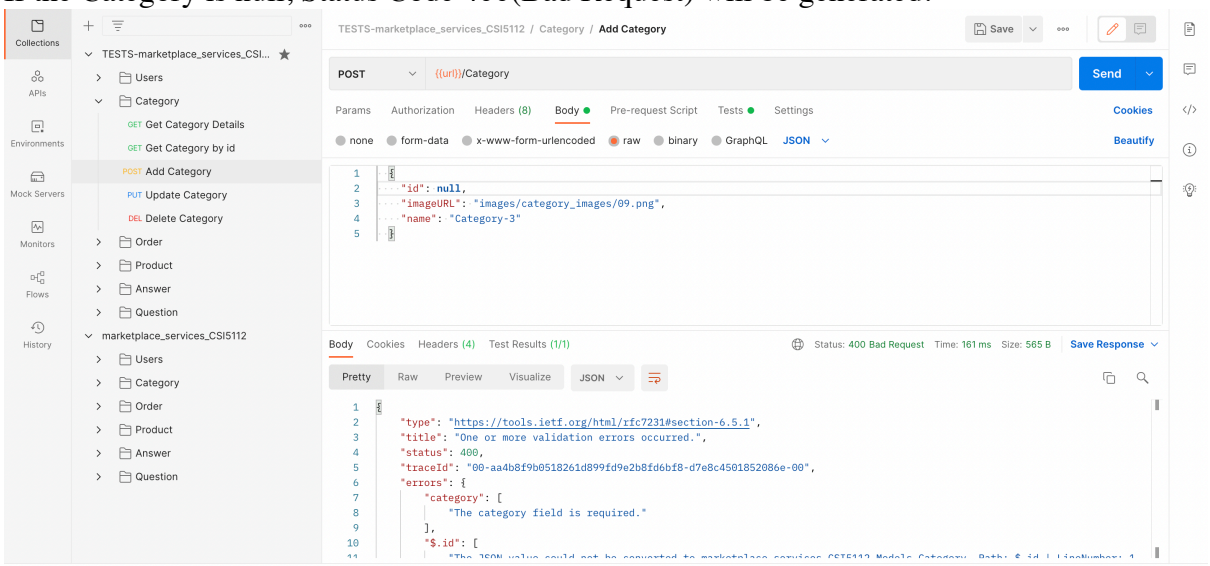
If the Body is validated, the Category will be successfully added, and Status Code 200 will be generated.



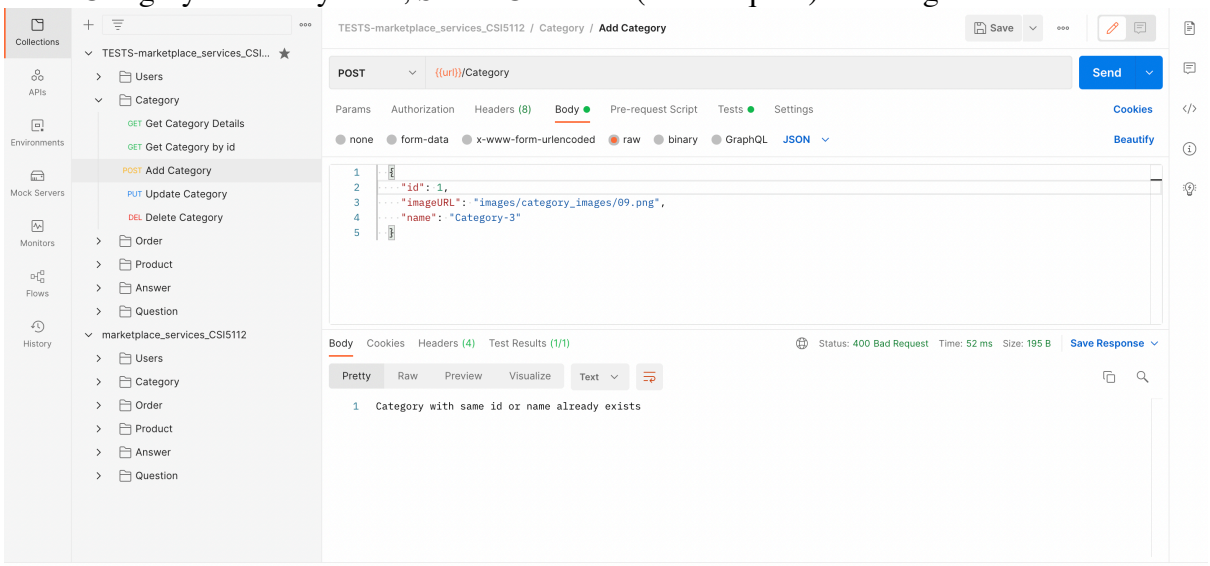
Category Added (Verified through GET API)



If the Category is null, Status Code 400(Bad Request) will be generated.

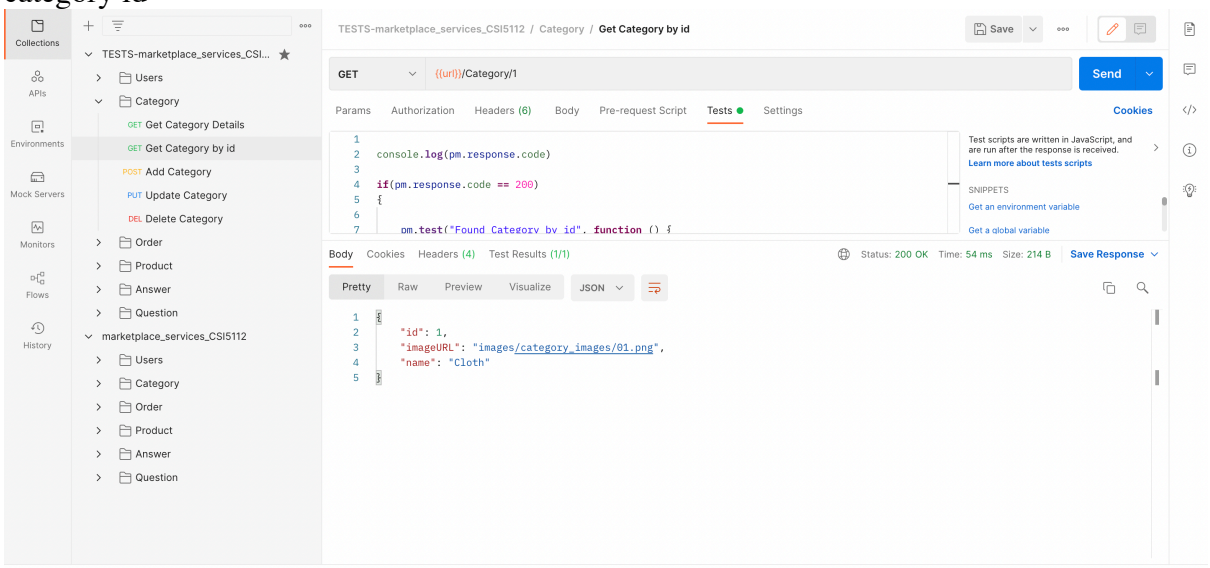


If the Category id already exist, Status Code 400 (Bad Request) will be generated.

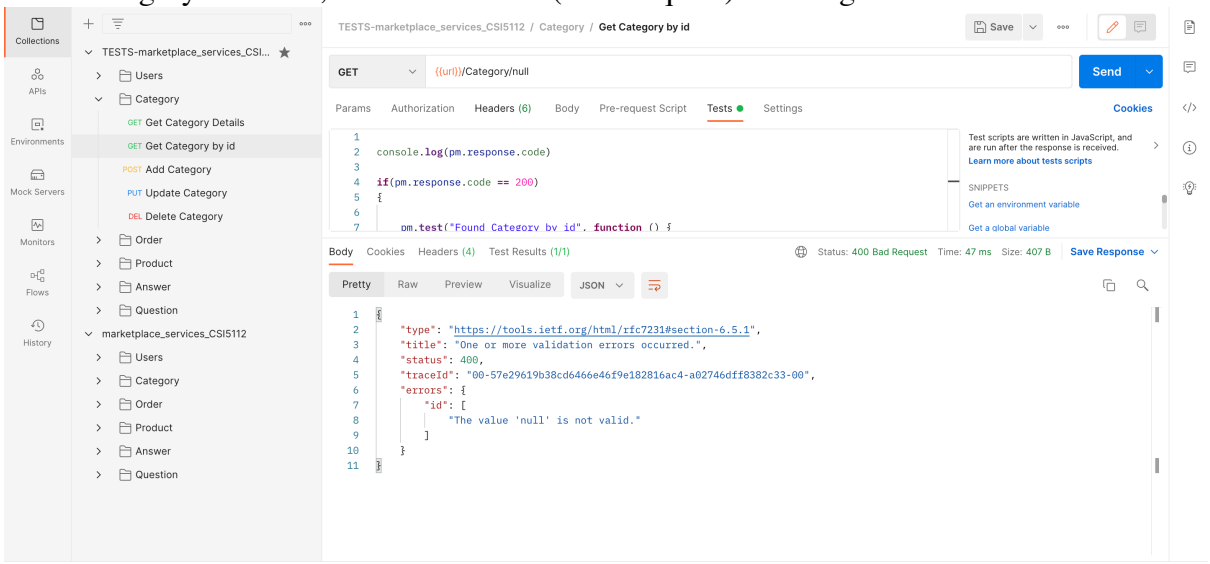


3.3) **Get Category by id**:

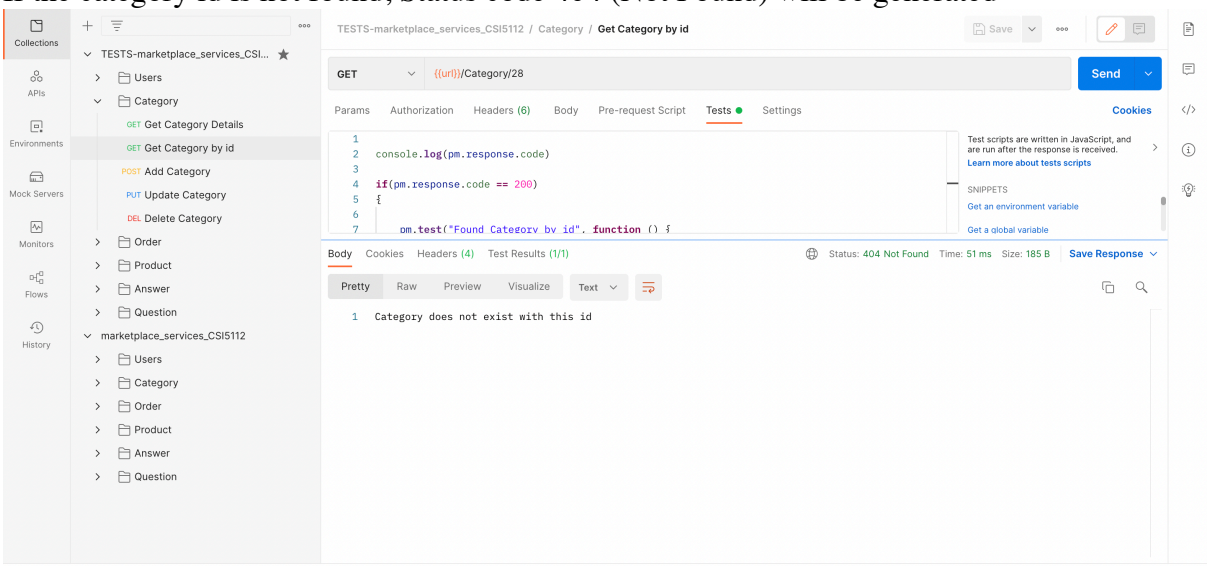
If the Category id exist, Status Code 200 will be generated along with details of the requested category id



If the Category id is null, Status Code 400 (Bad Request) will be generated.



If the category id is not found, Status code 404 (Not Found) will be generated

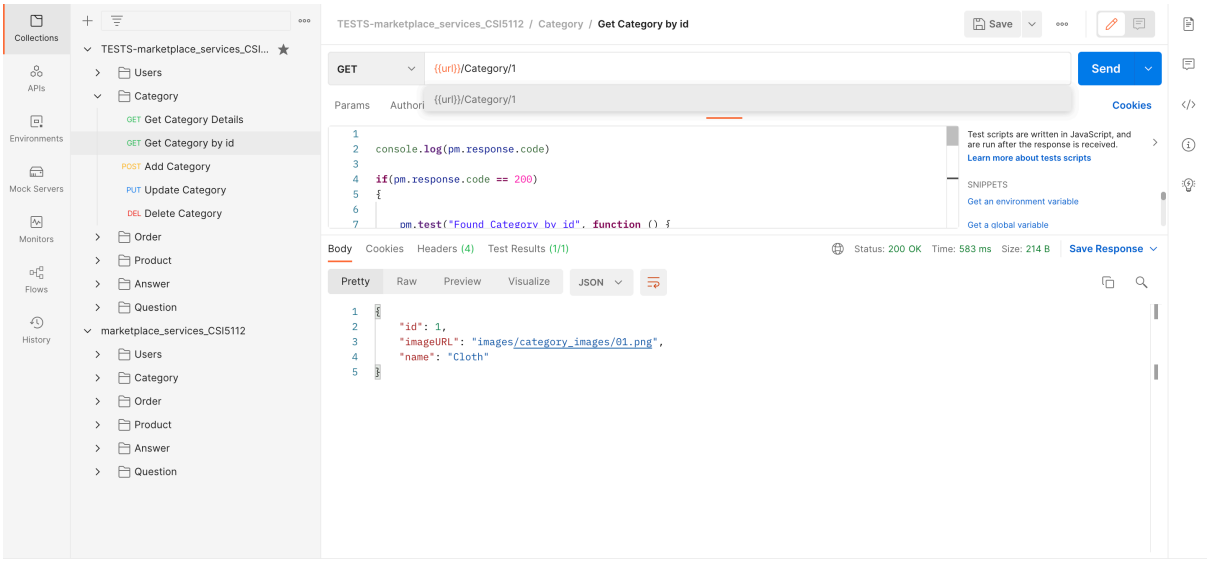


3.4) **Edit Category:**

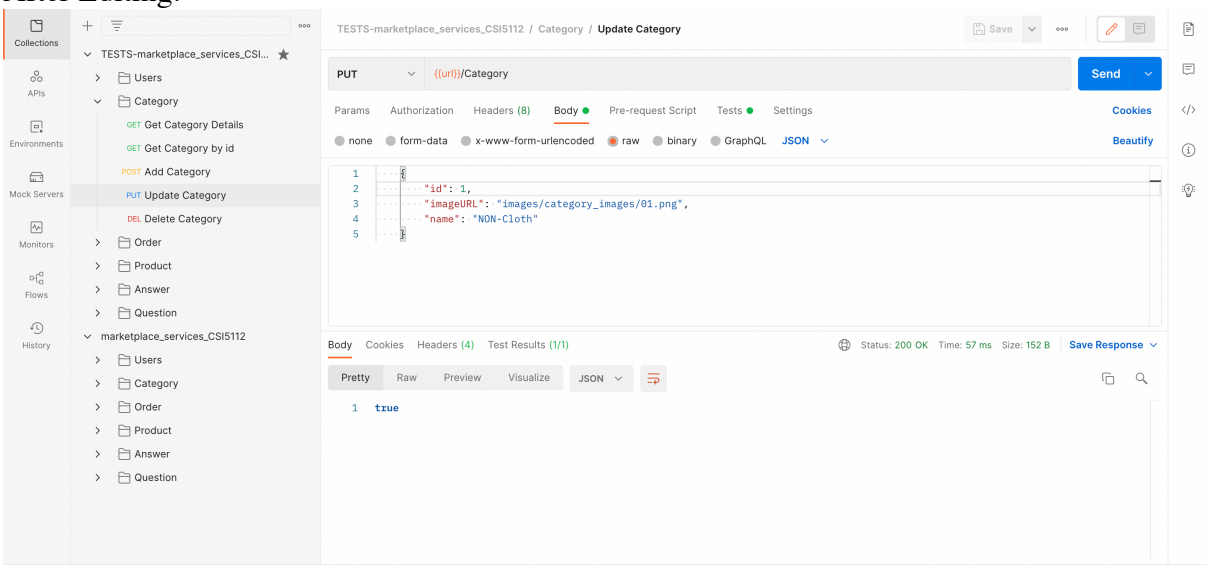
https://localhost:7136/api/Category

If the body is validated, the Status Code 200 will be generated, and category will be edited.

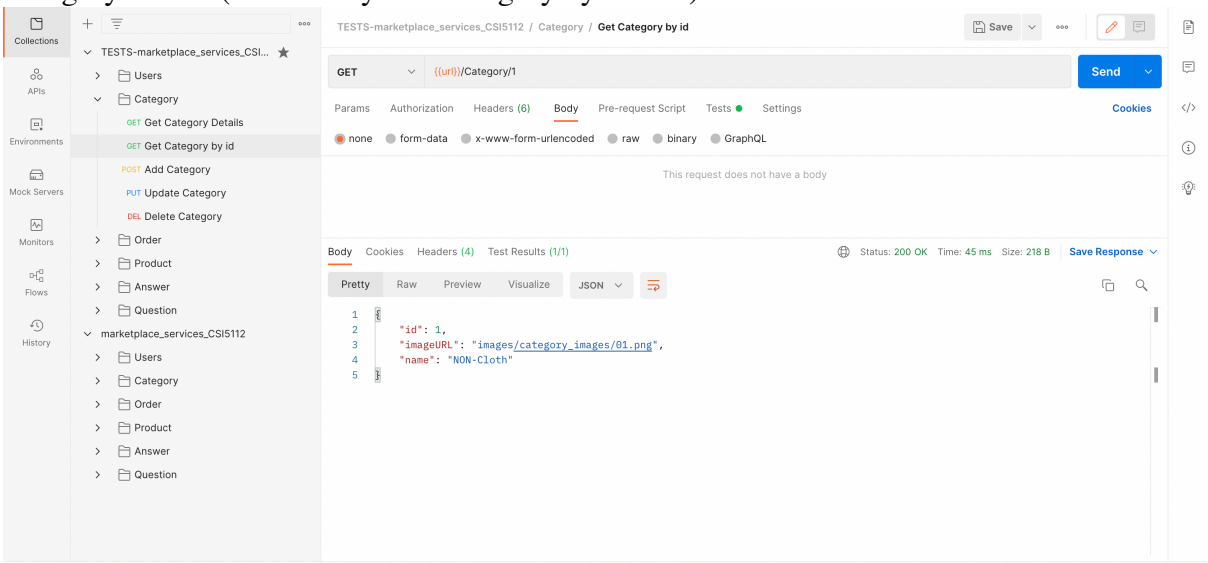
Before:



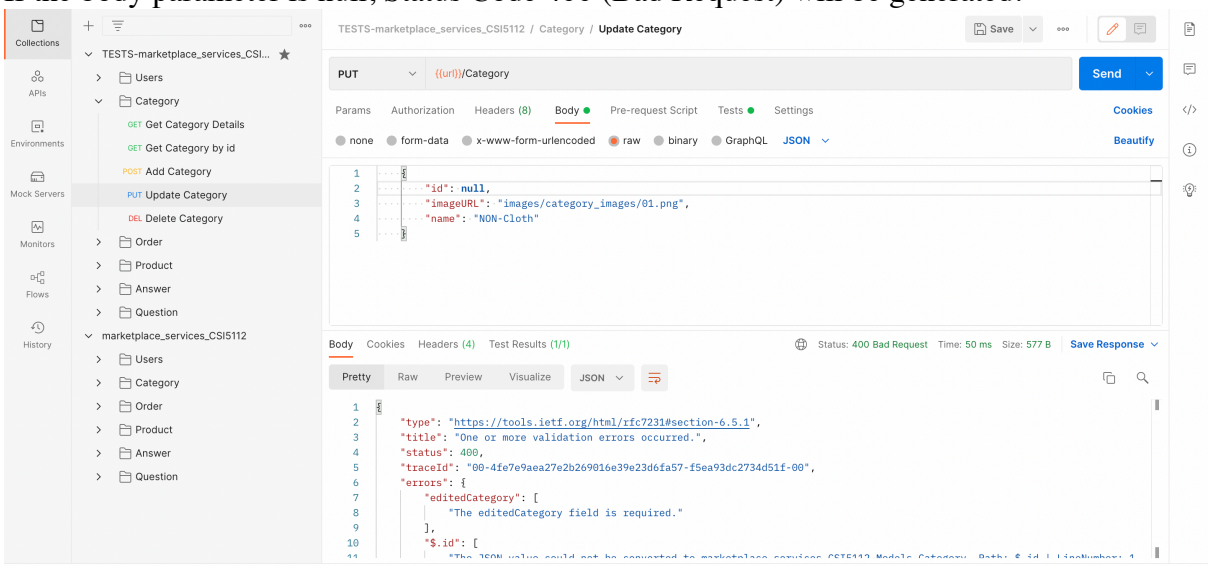
After Editing:



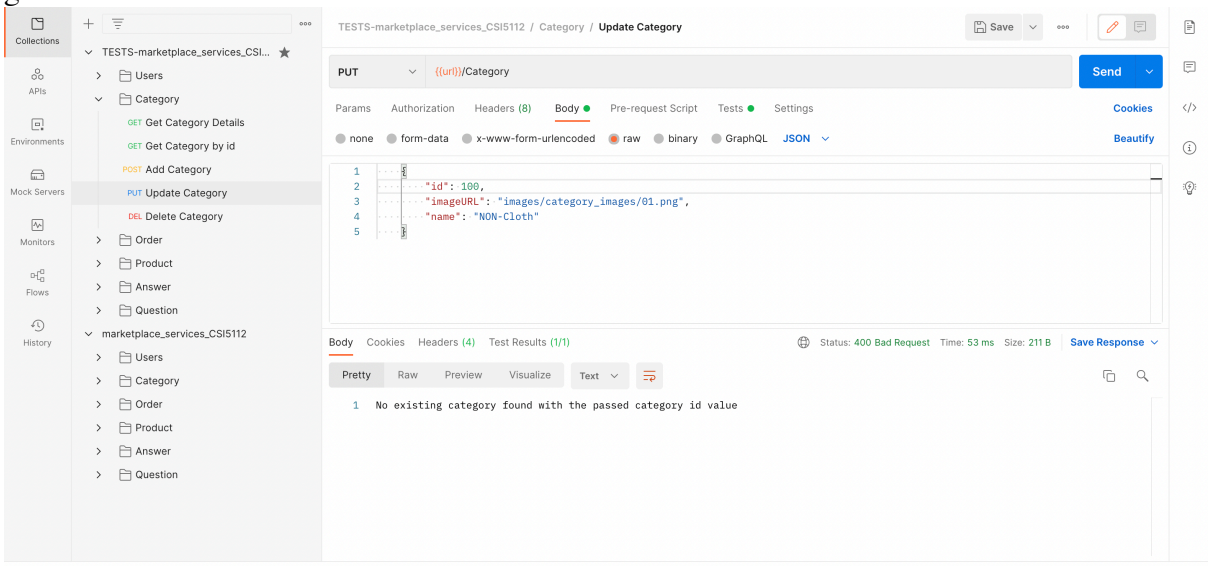
Category Edited (Verified by Get Category by id API)



If the body parameter is null, Status Code 400 (Bad Request) will be generated.



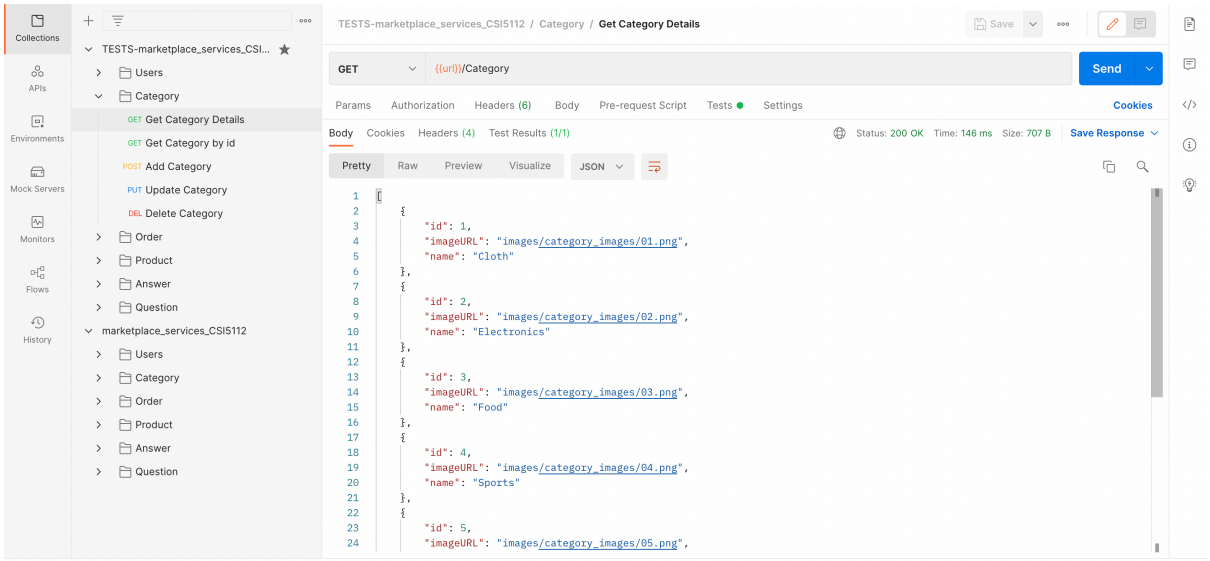
If no existing category is found to be edited, Status Code 400 (Bad Request) will be generated.



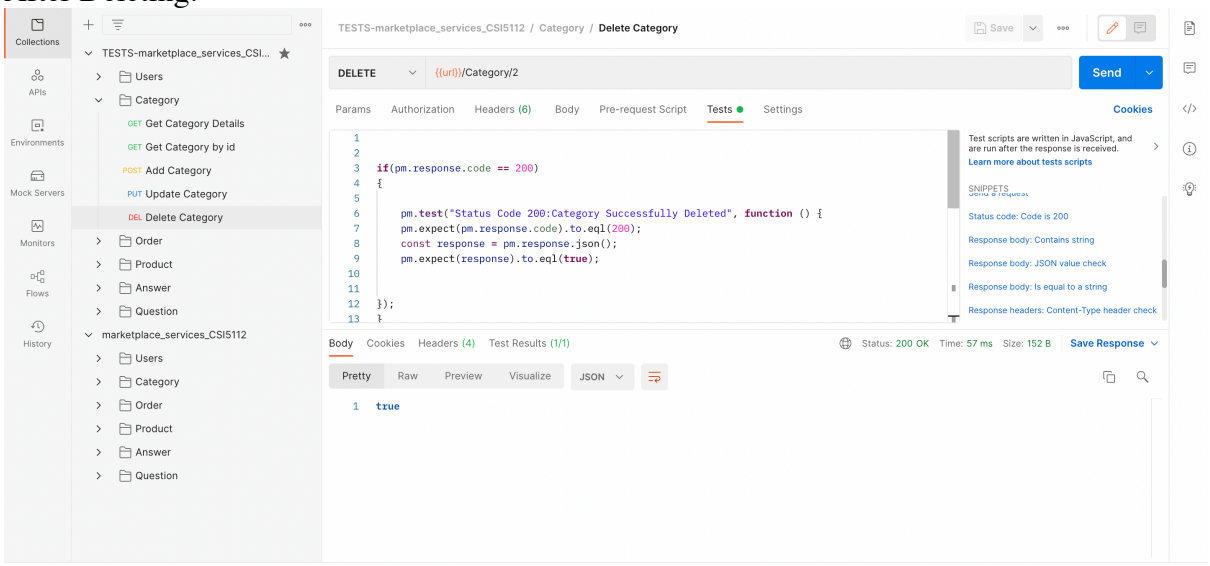
3.5) **Delete Category by id:**

https://localhost:7136/api/Category/1

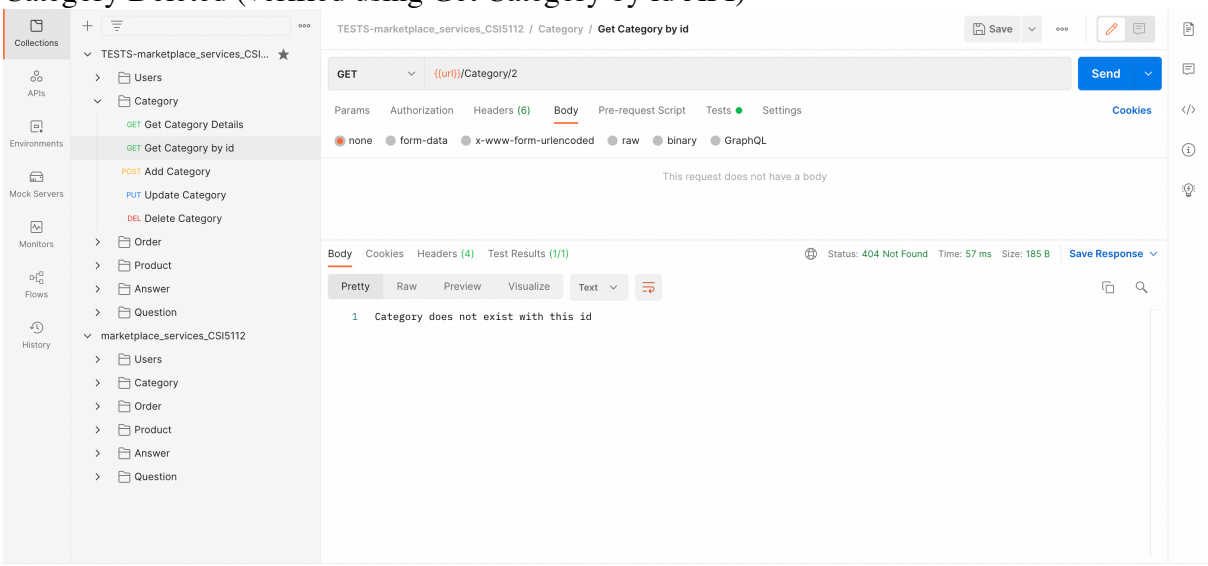
If the id is validated, the Status Code 200 will be generated, and category will be deleted.
Before:



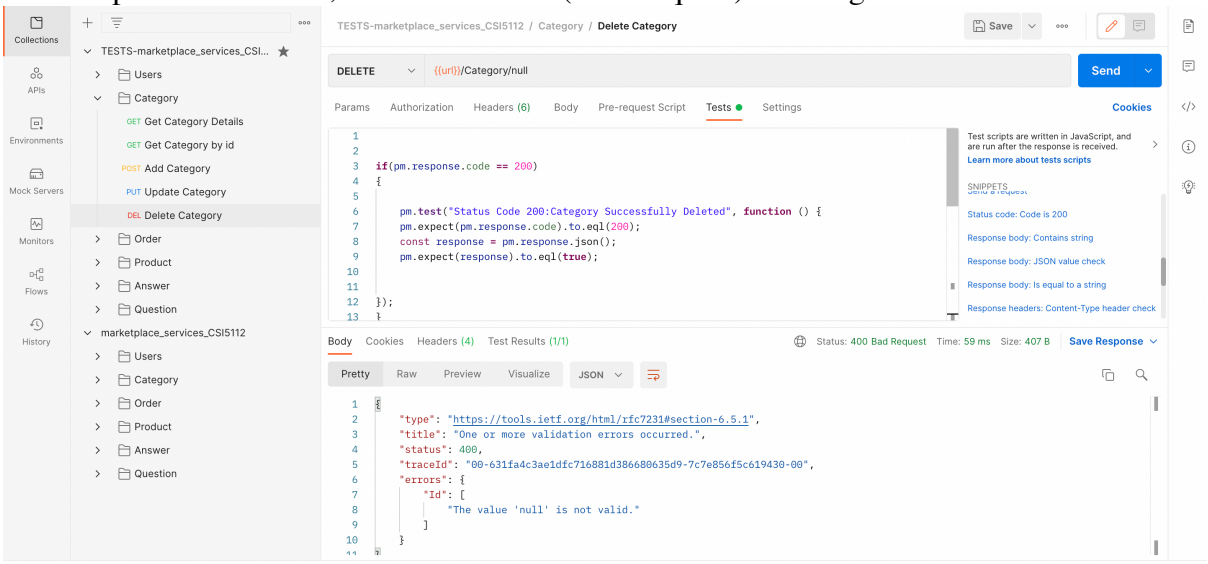
After Deleting:



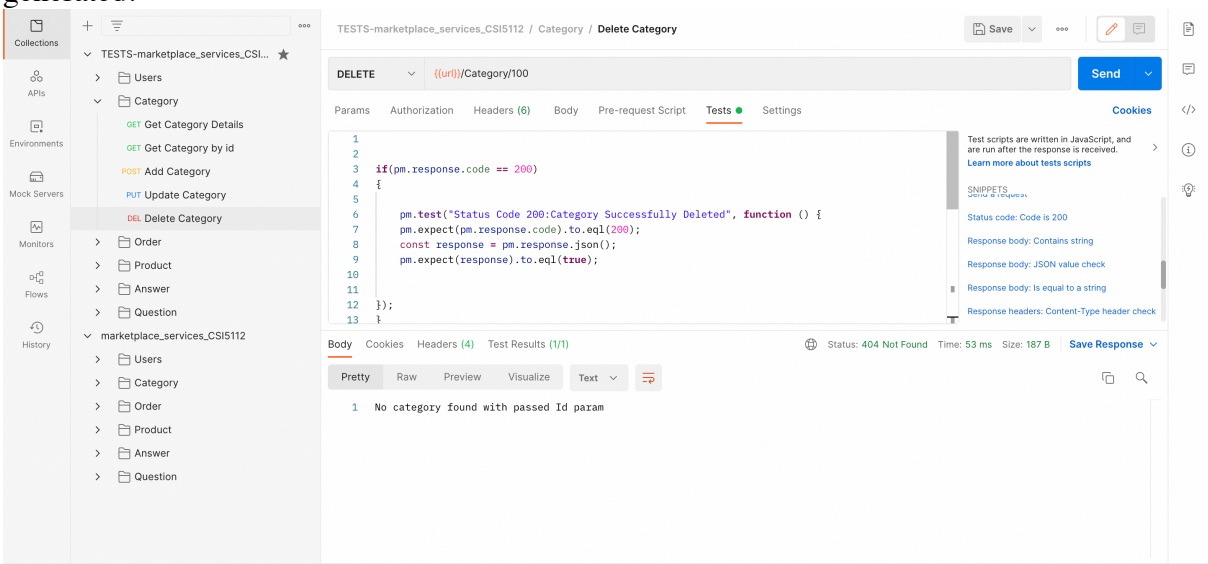
Category Deleted (verified using Get Category by id API)



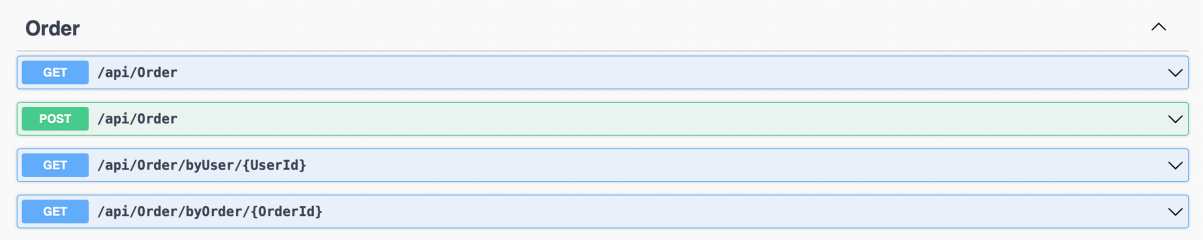
If the id parameter is null, Status Code 400 (Bad Request) will be generated.



If no existing category id is found to be deleted, Status Code 404 (Not Found) will be generated.



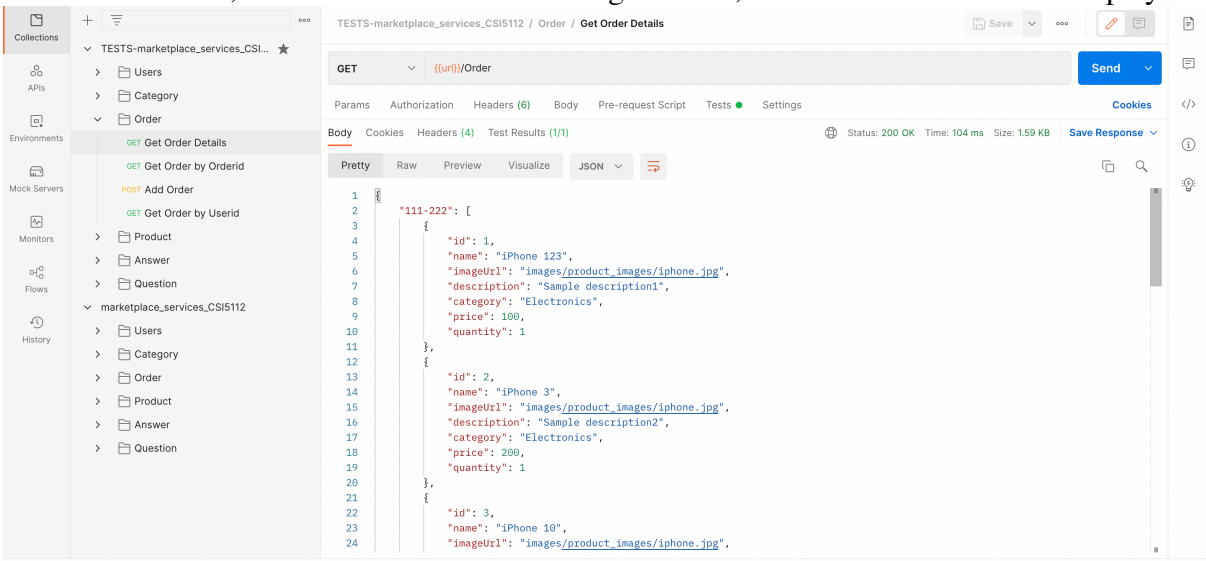
4) **Order:**



4.1) **Get All order**:

https://localhost:7136/api/Order

If the order exists, then status code 200 will be generated, and list of orders will be displayed.

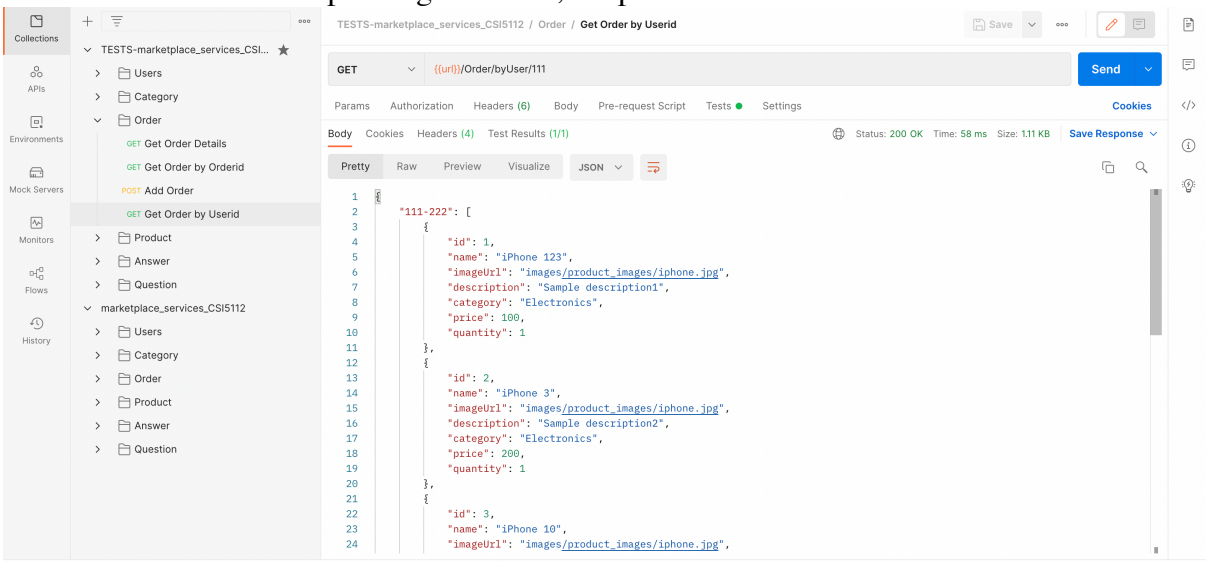


If the Order does not exist, Status Code 404 (Not Found) will be generated.

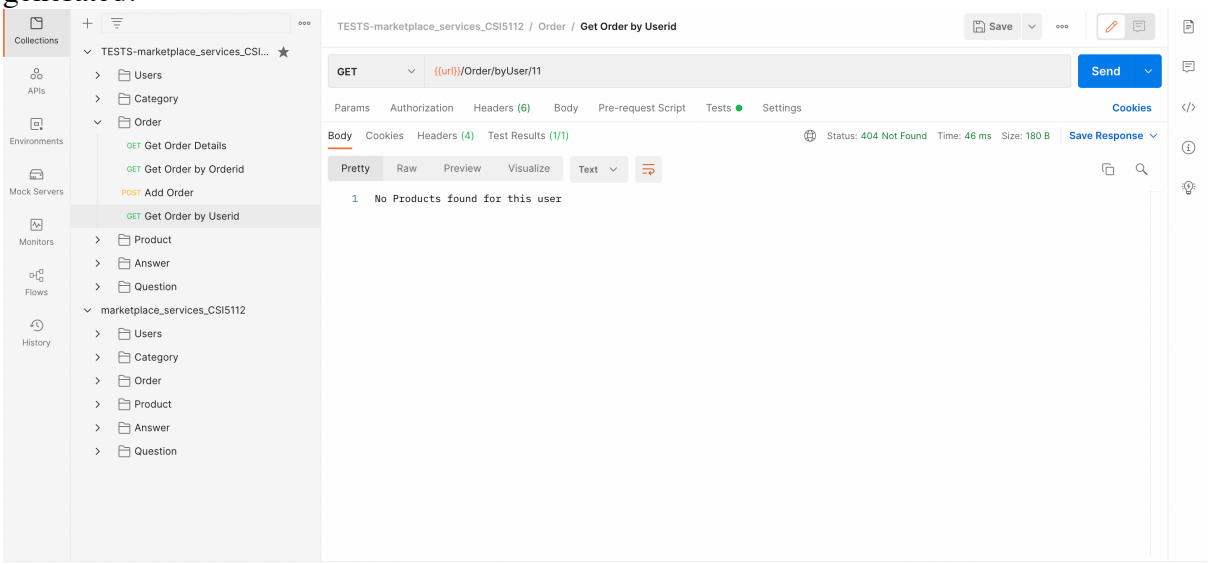
4.2) **Get Order by User id:**

https://localhost:7136/api/Order/byUser/111

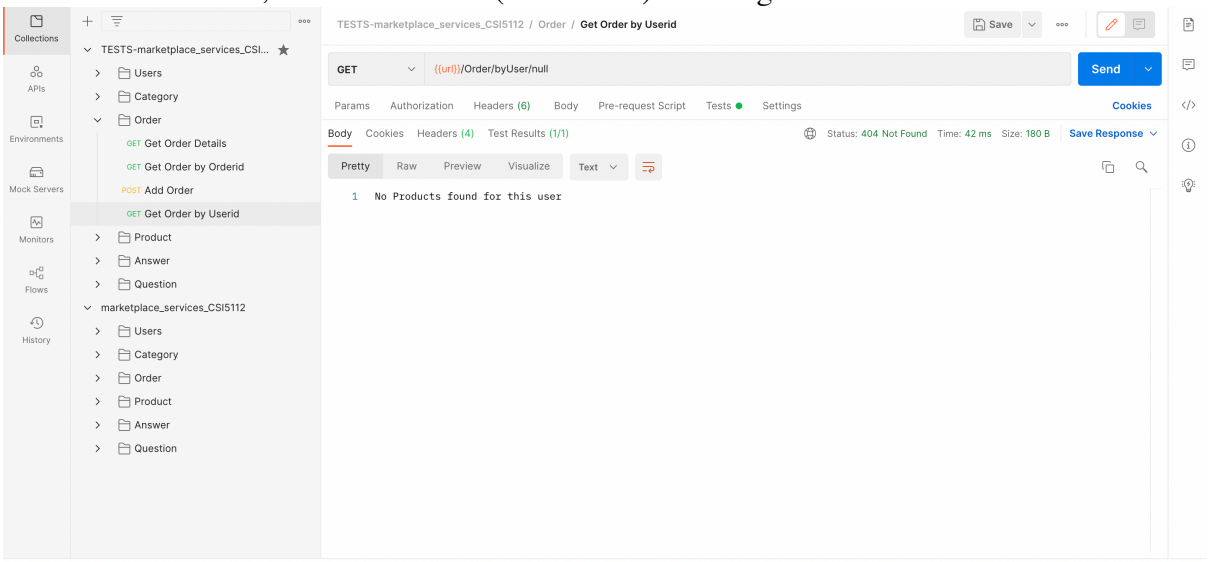
If the User id exist corresponding the order, the particular order will be fetched.



If the Order does not exist by particular user id, Status Code 404 (Not Found) will be generated.



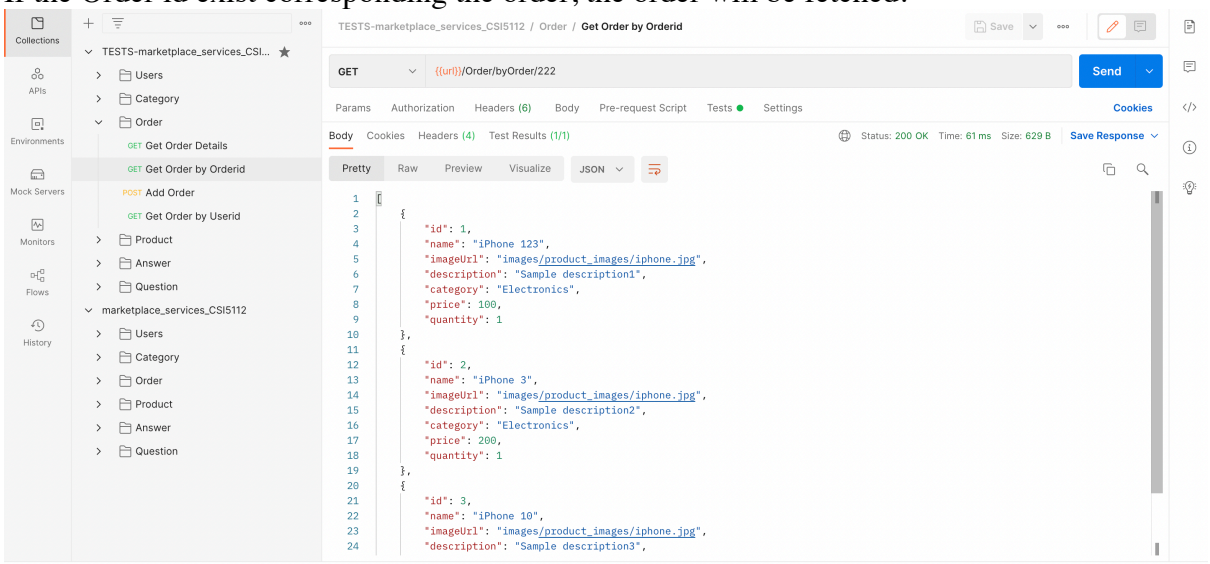
If the User id is null, Status Code 404 (Not Found) will be generated.



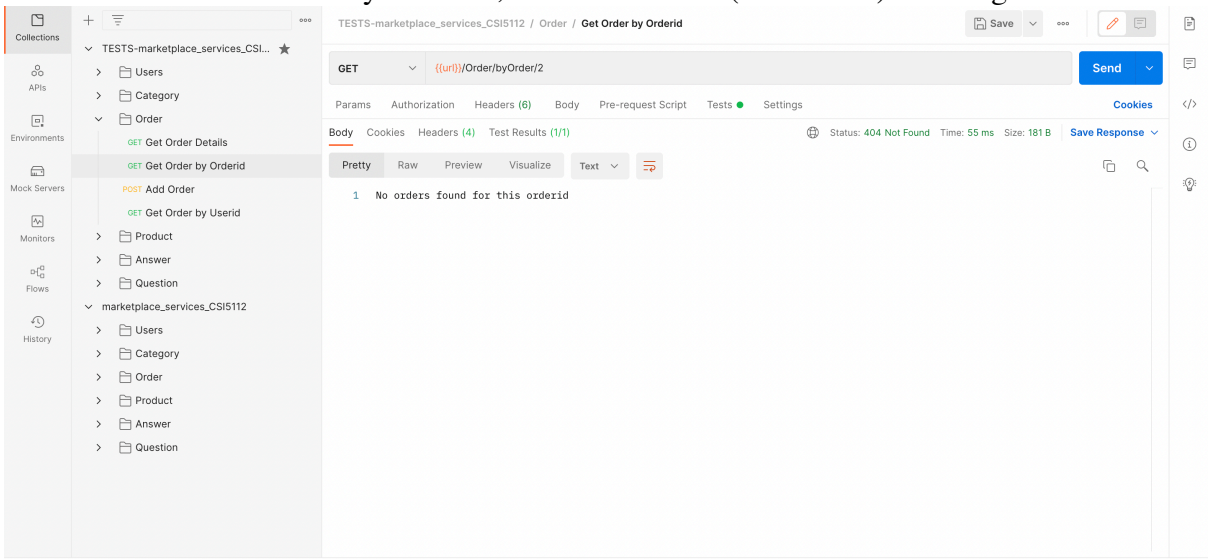
4.3) **Get Order by Order id:**

https://localhost:7136/api/Order/byOrder/222

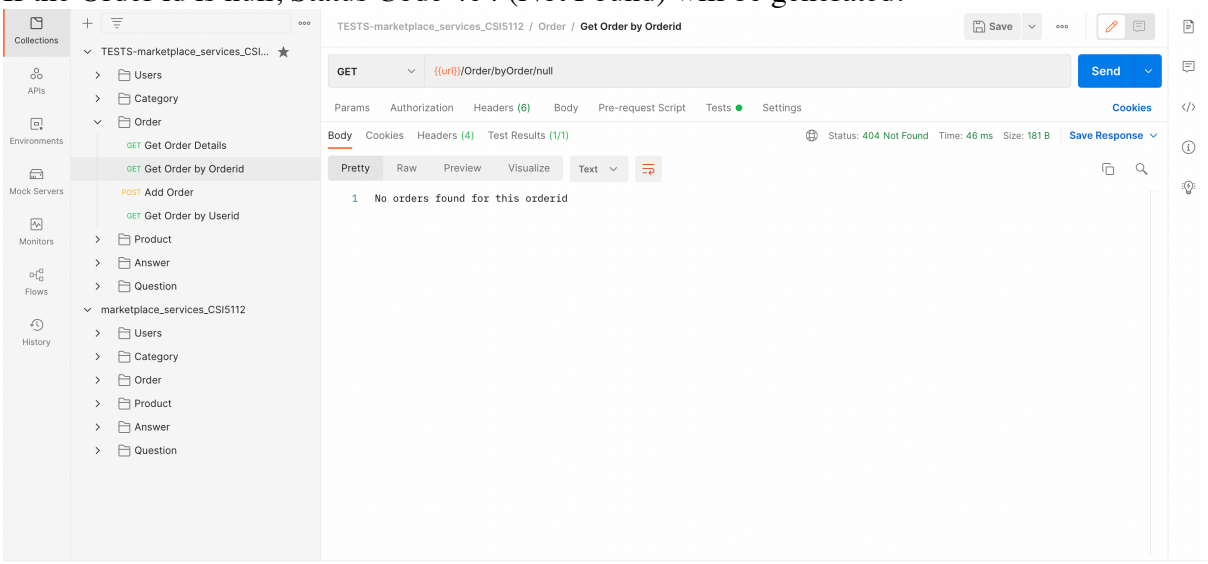
If the Order id exist corresponding the order, the order will be fetched.



If the Order does not exist by Order id, Status Code 404 (Not Found) will be generated.



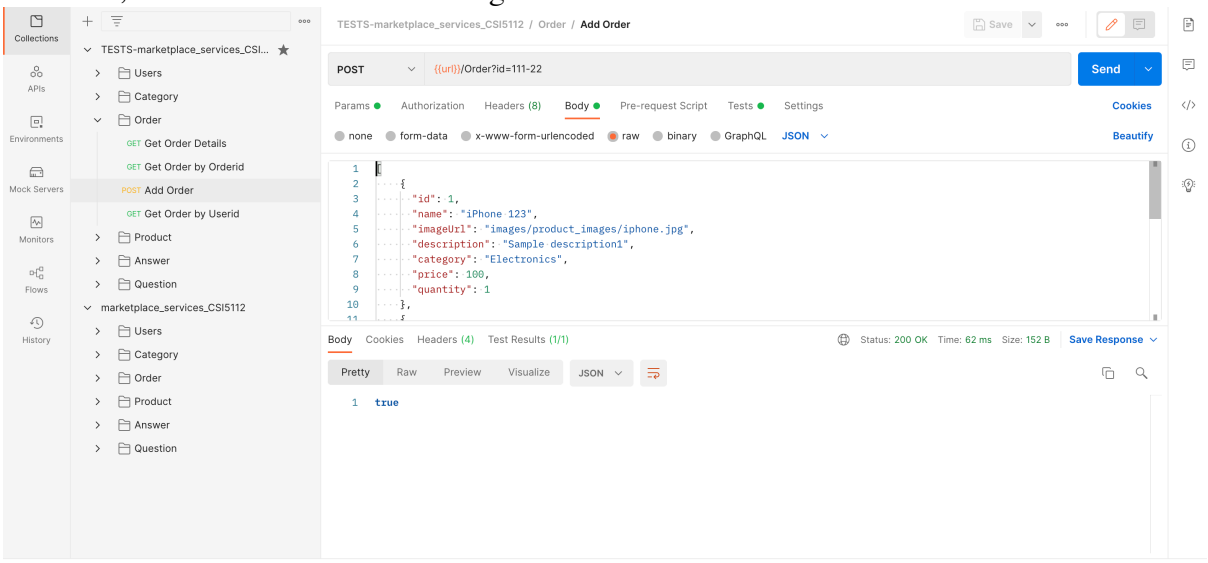
If the Order id is null, Status Code 404 (Not Found) will be generated.



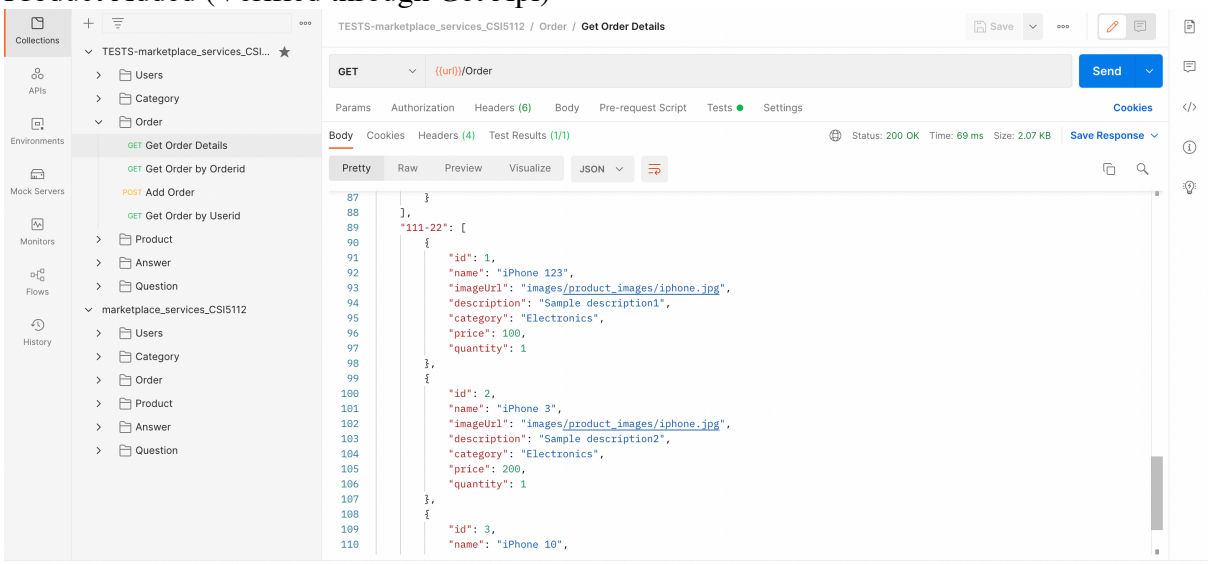
4.4) **Add Order:**

https://localhost:7136/api/Order?id=111-22

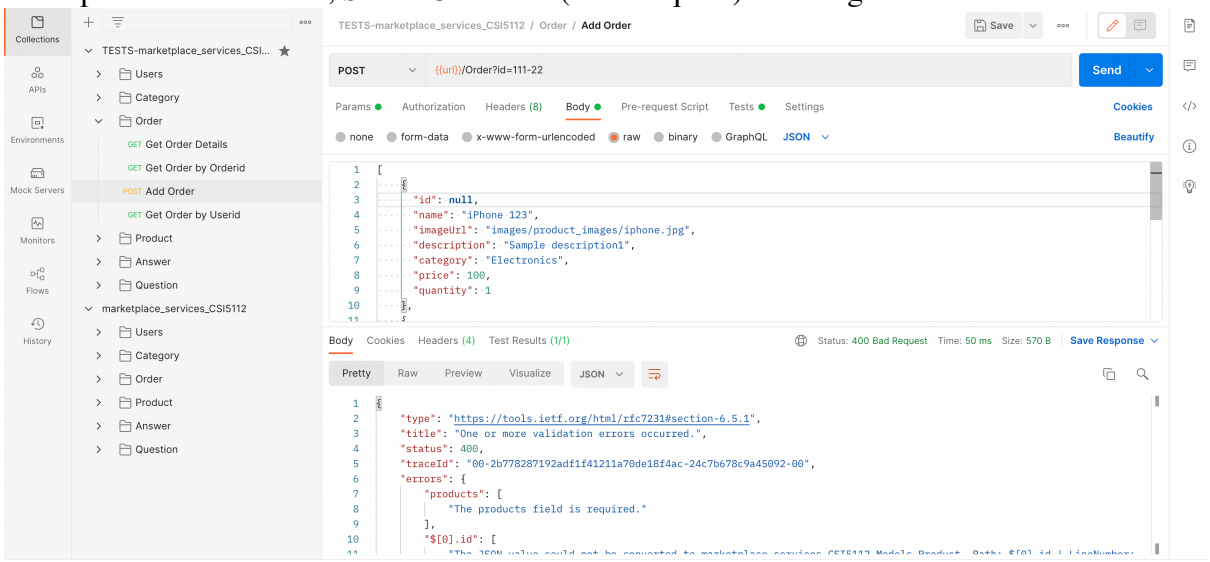
If the Format of parameters (a-b) are true and duplicate order does not exist, then order will be added, and status code 200 will be generated.



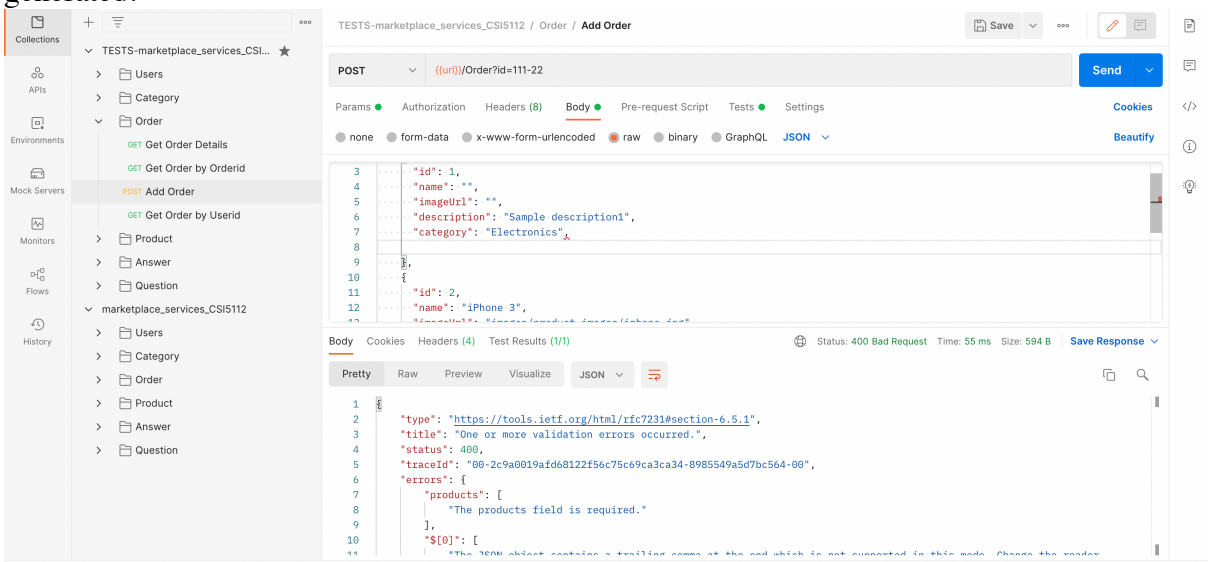
Product Added (Verified through Get Api)



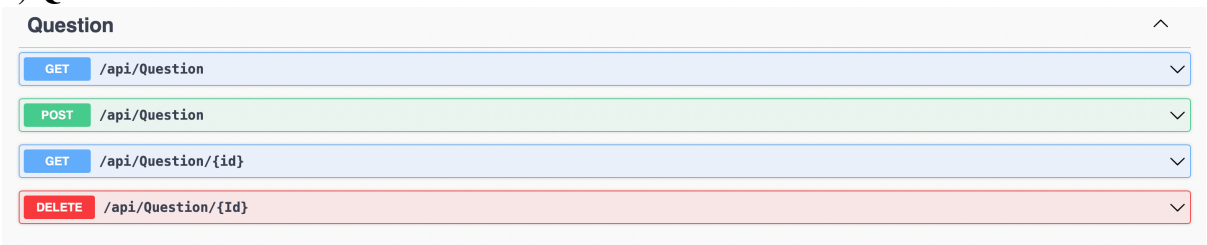
If the parameters are null, Status Code 400 (Bad Request) will be generated.



If the Parameters are not formatted well or they do not exist, Status Code 400 will be generated.



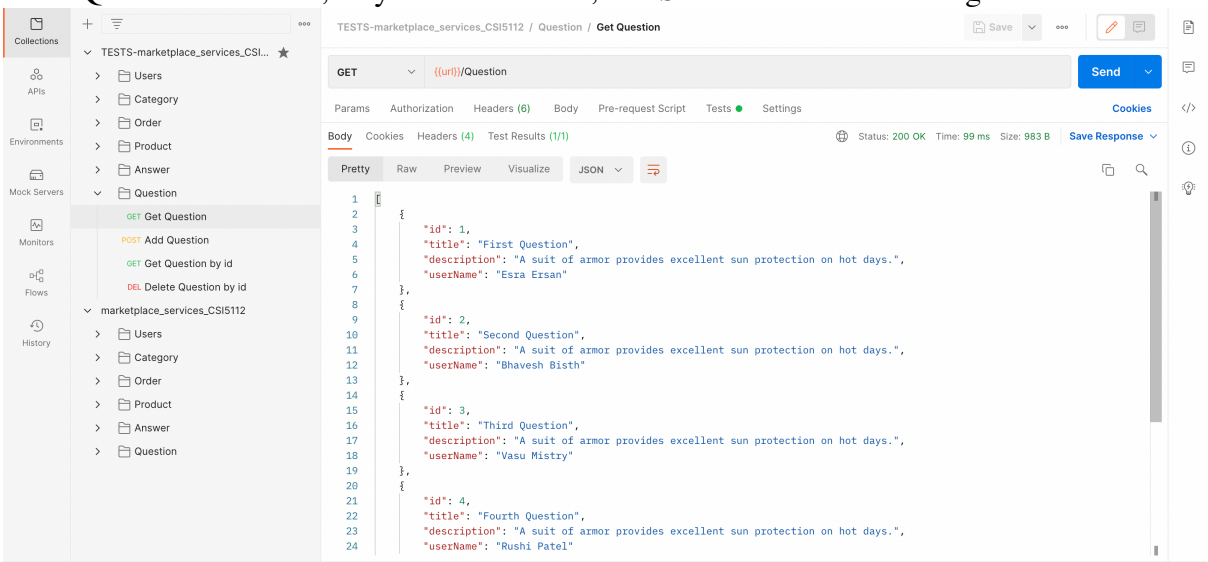
5) **Question:**



5.1) **Get All Question:**

https://localhost:7136/api/Question

If the Question are listed, they will be fetched, and Status code 200 will be generated.

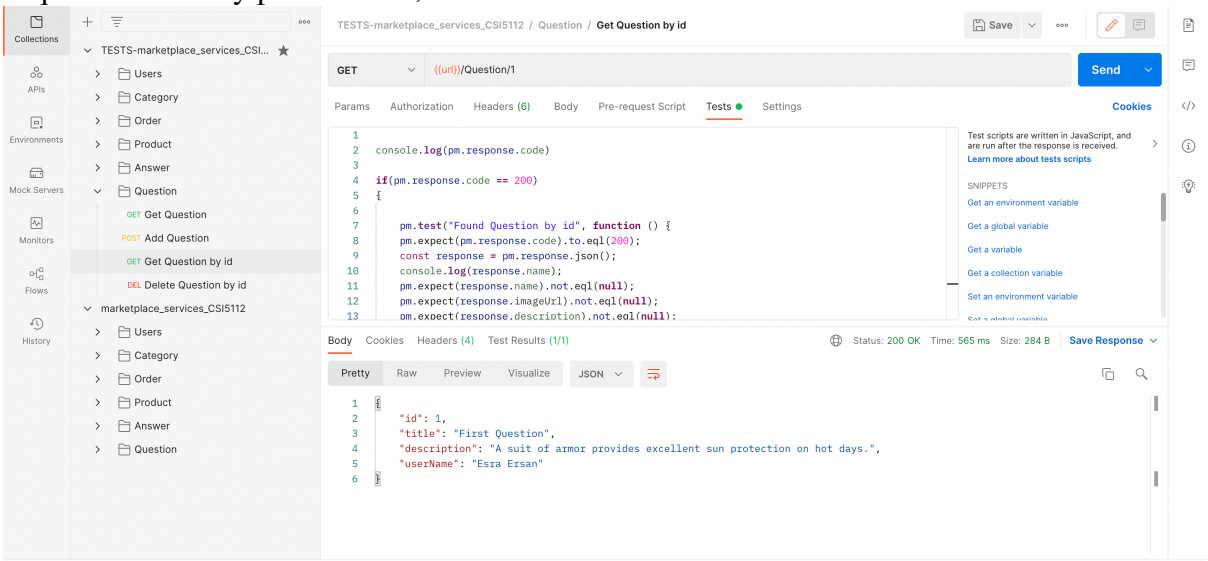


If the Questions are not found, Status code 404 (Not Found) will be generated.

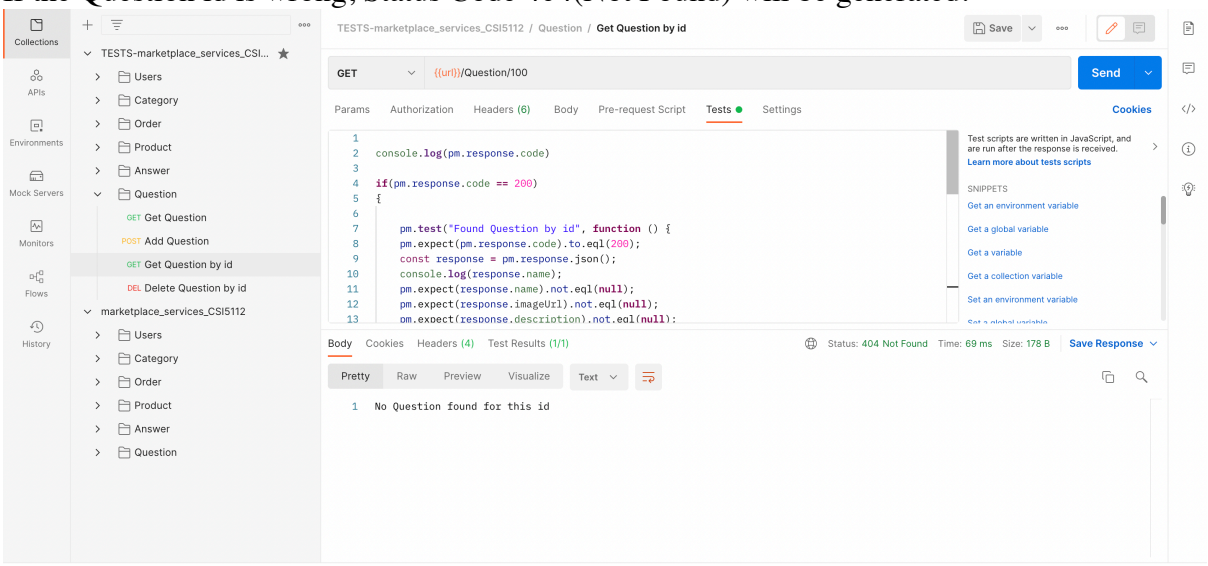
5.2) **Get Question by id:**

https://localhost:7136/api/Question/1

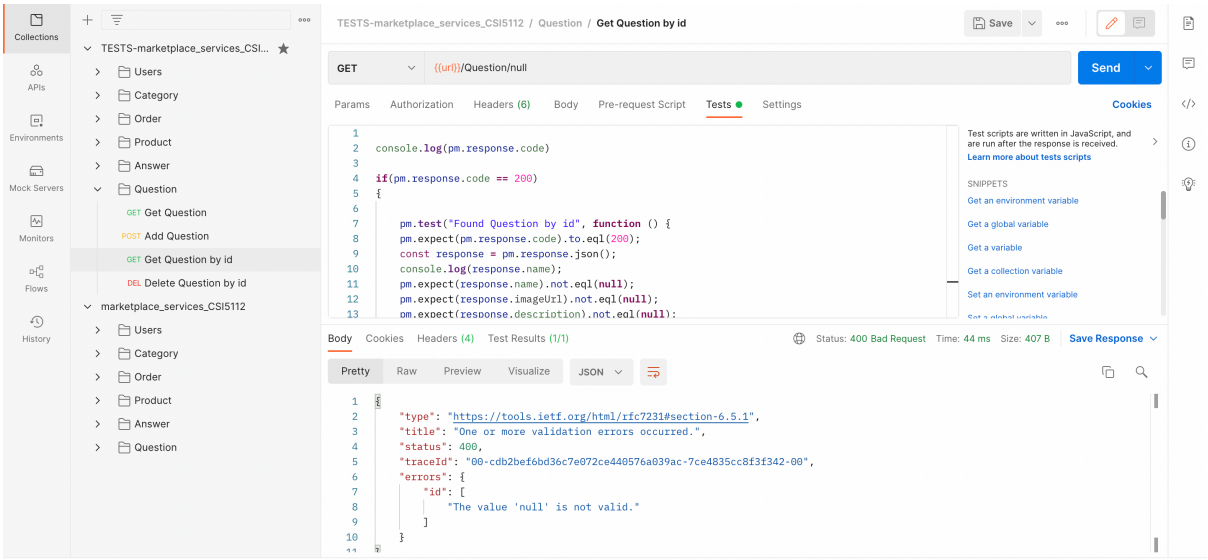
If question exist by particular id, it will be fetched.



If the Question id is wrong, Status Code 404(Not Found) will be generated.



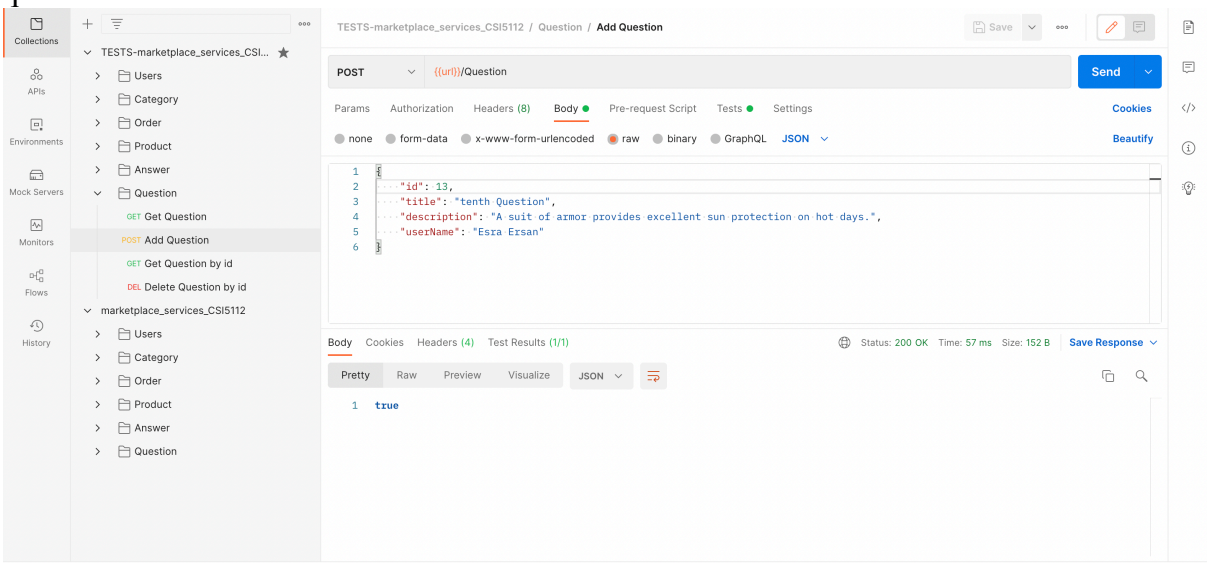
If the question id is null, Status Code 400 (Bad Request) will be generated.



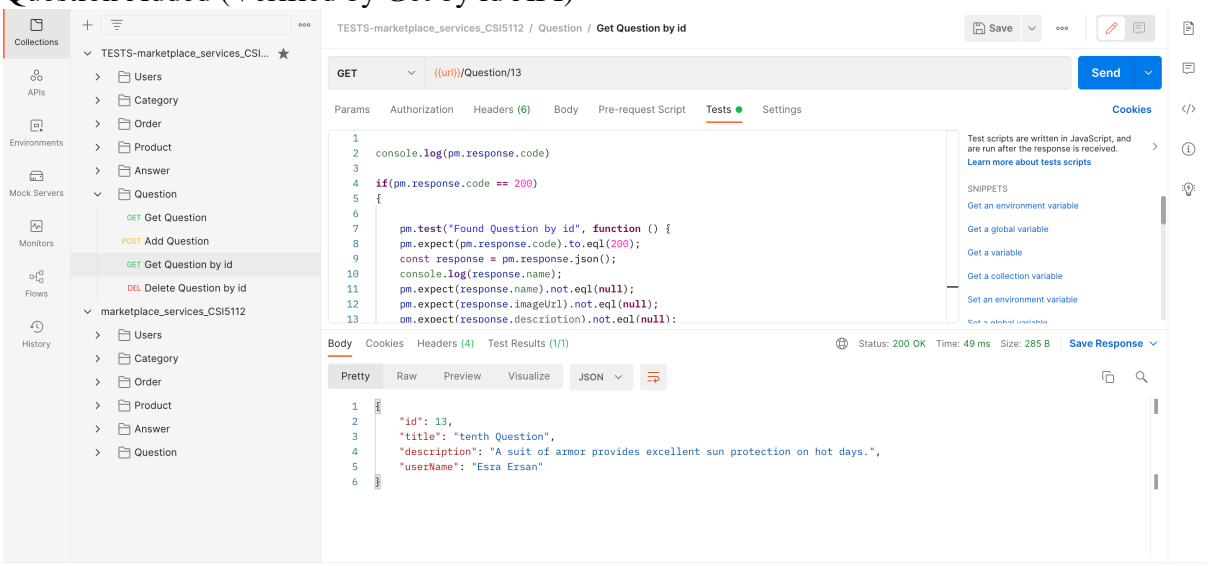
5.3) **Post/Add Question:**

https://localhost:7136/api/Question

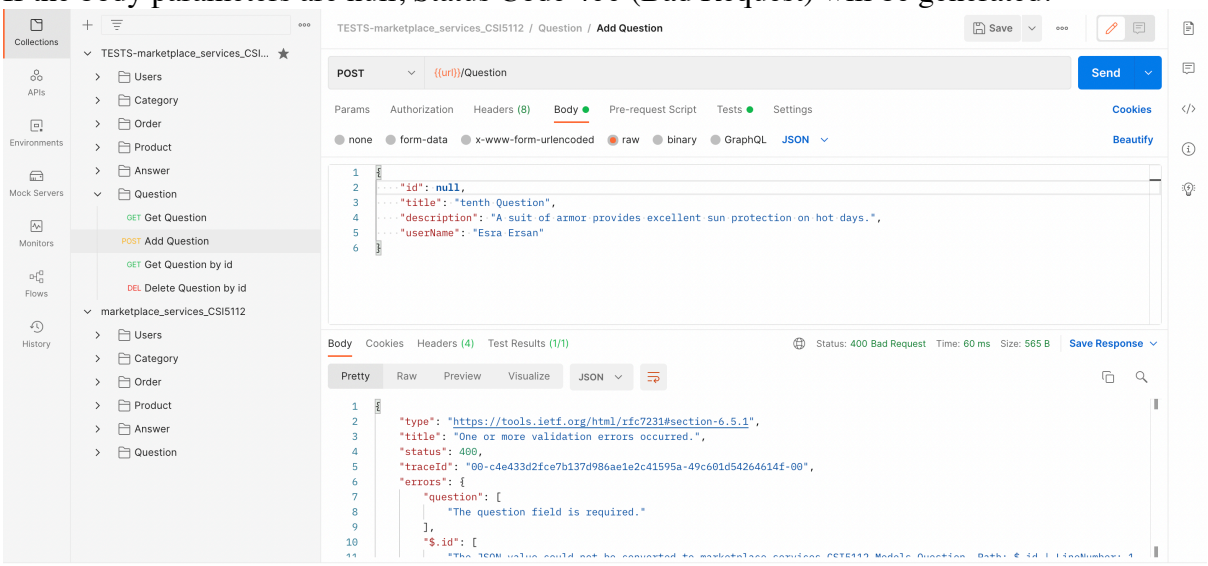
If the body parameters are correctly passed, the status code 200 will be generated and question will be added.



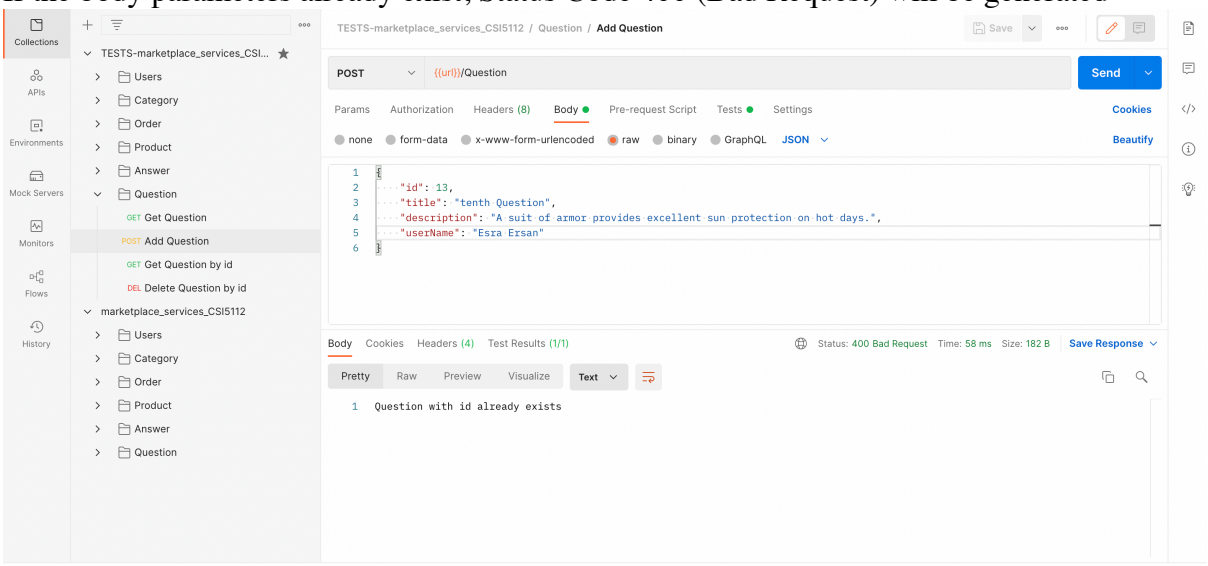
Question Added (Verified by Get by id API)



If the body parameters are null, Status Code 400 (Bad Request) will be generated.



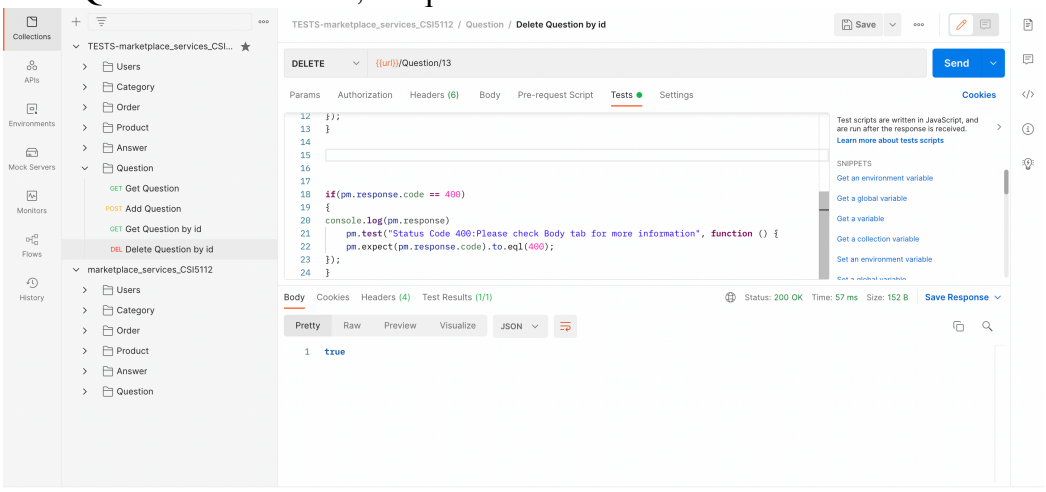
If the body parameters already exist, Status Code 400 (Bad Request) will be generated



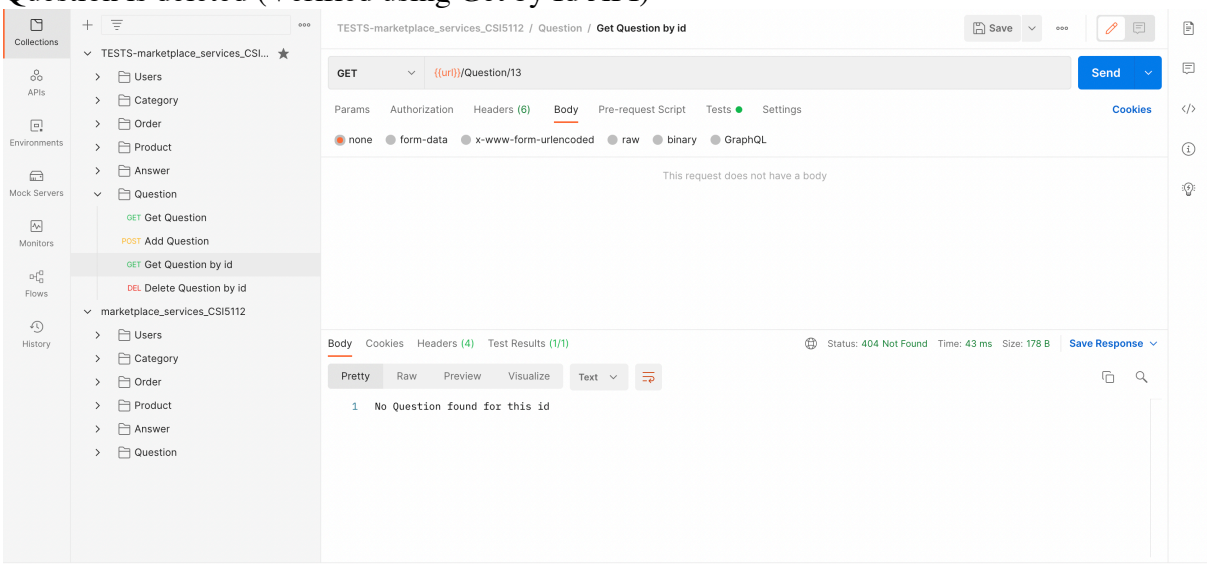
5.4) **Delete Question by id:**

https://localhost:7136/api/Question/1

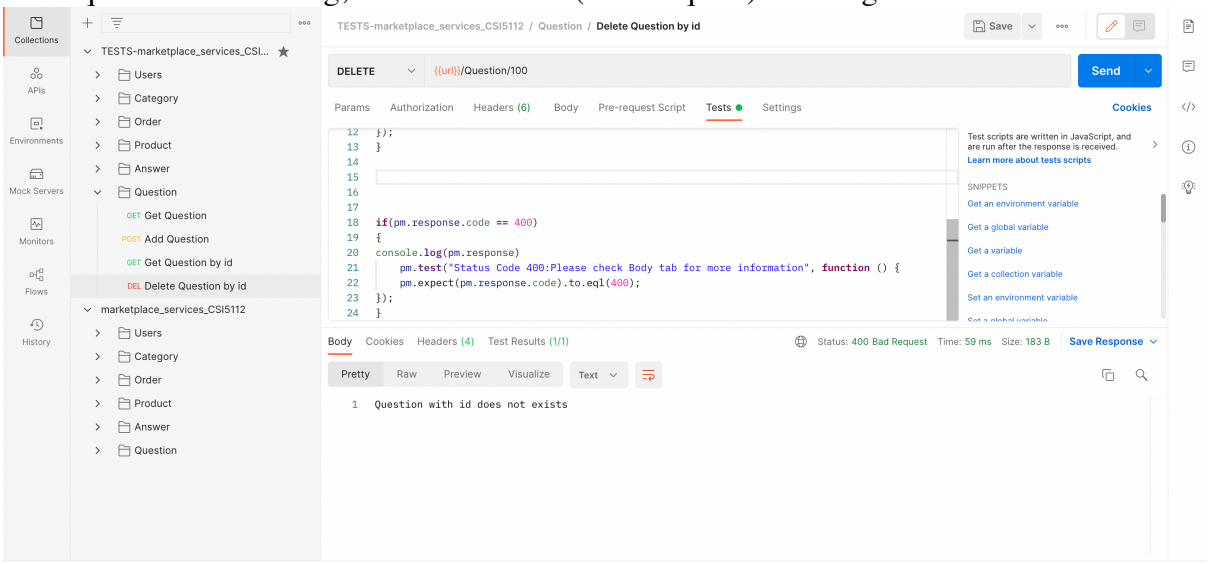
If the Question id is correct, the question will be deleted with status code 200.



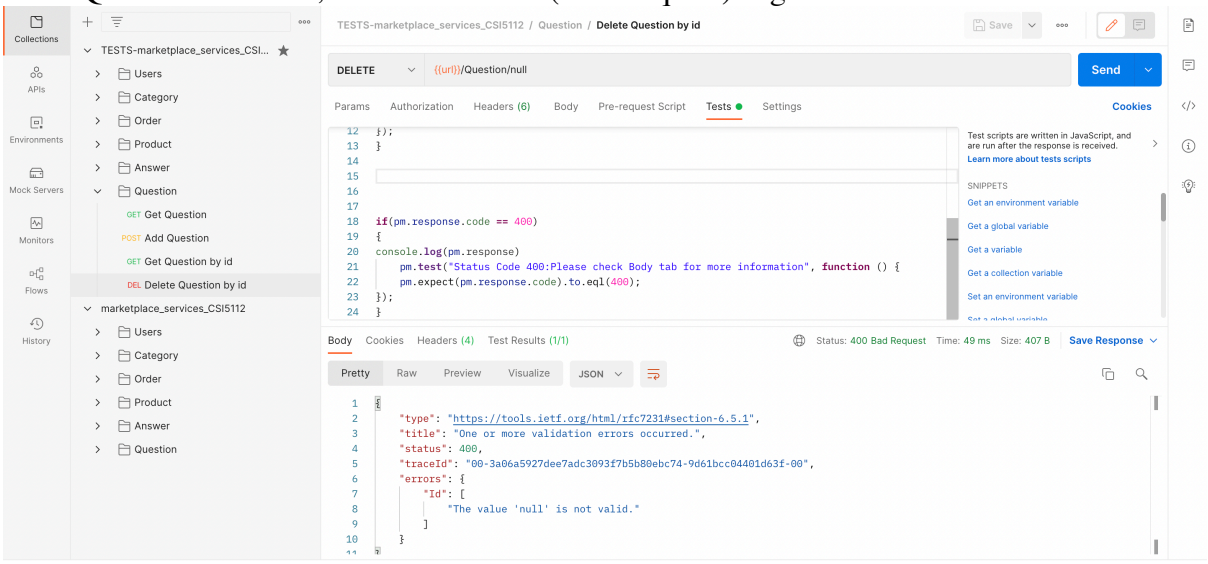
Question is deleted (Verified using Get by Id API)



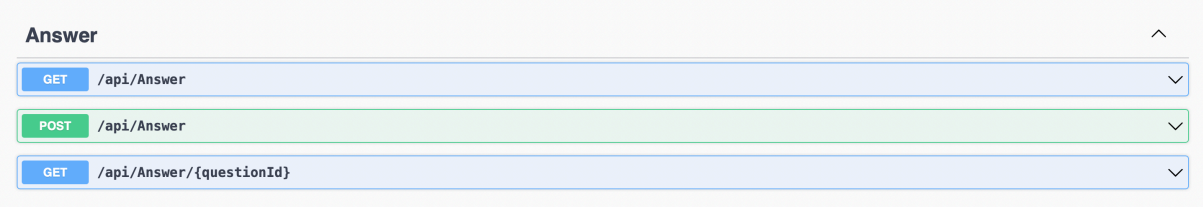
If the question id is wrong, Status Code 400 (Bad Request) will be generated.



If the Question id is null, Status Code 400 (Bad Request) is generated.



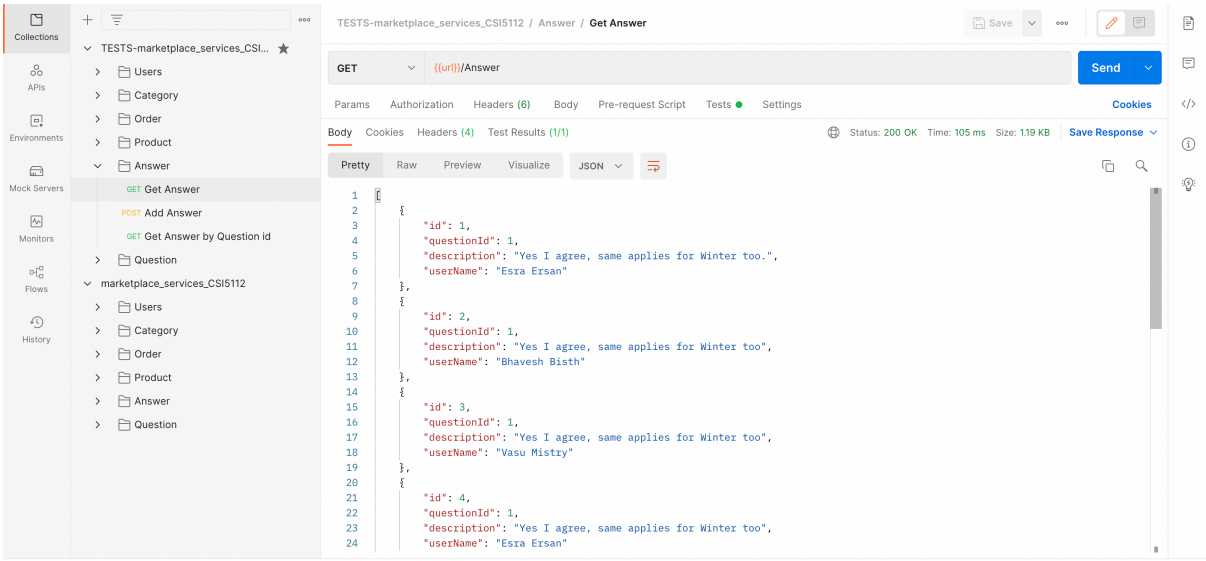
6) **Answer:**



6.1) Get All Answers

https://localhost:7136/api/Answer

If the Answers are listed then status code 200 will be generated and the answers will be fetched.

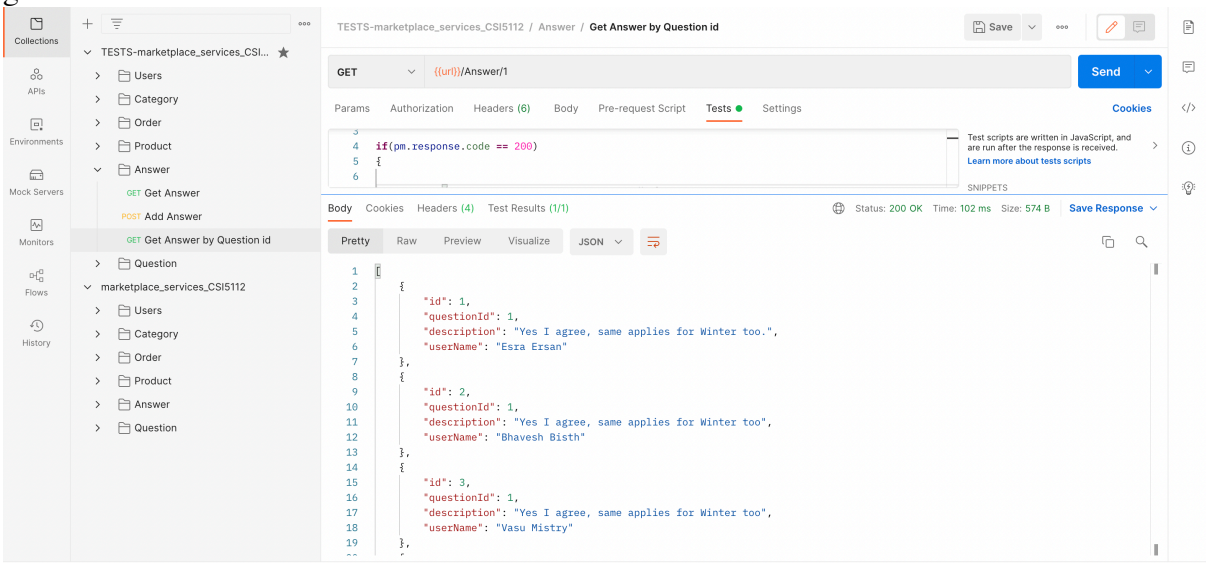


If the Answers are not listed then Status Code 404 (Not Found) will be generated.

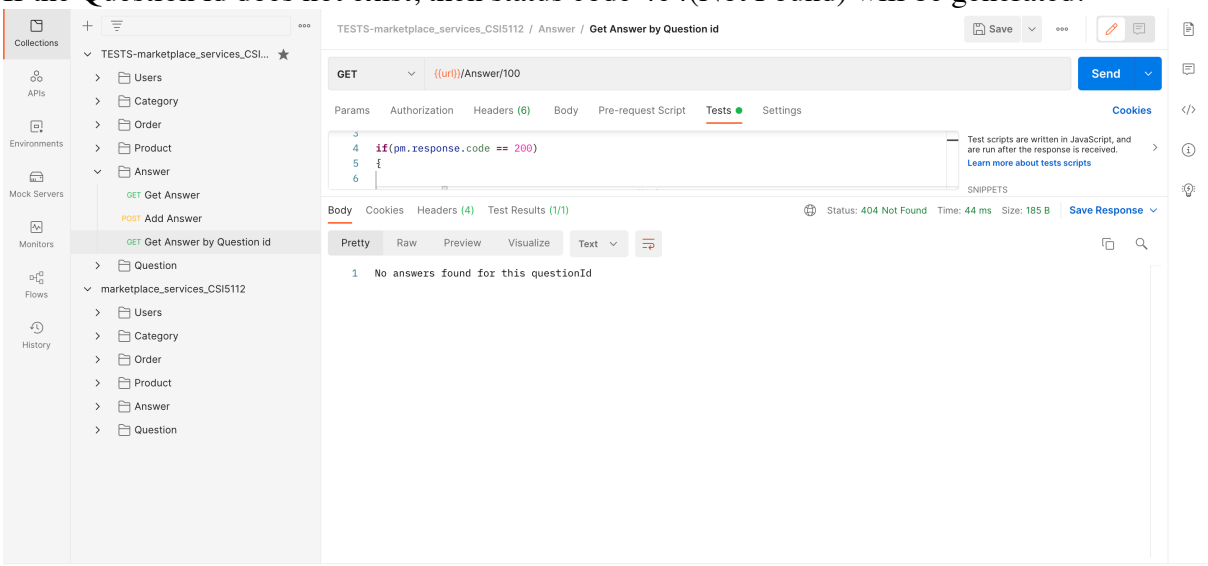
6.2) Get Answer by Question id

https://localhost:7136/api/Answer/1

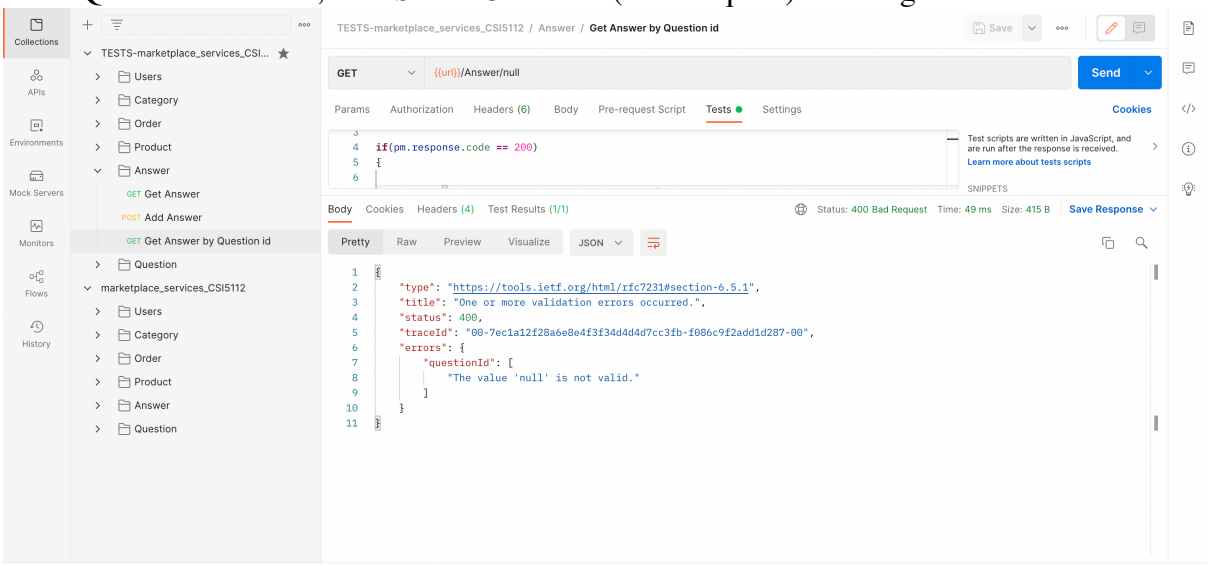
If the Question id Exist, then the answer will be fetched, and the status code 200 will be generated.



If the Question id does not exist, then status code 404(Not Found) will be generated.



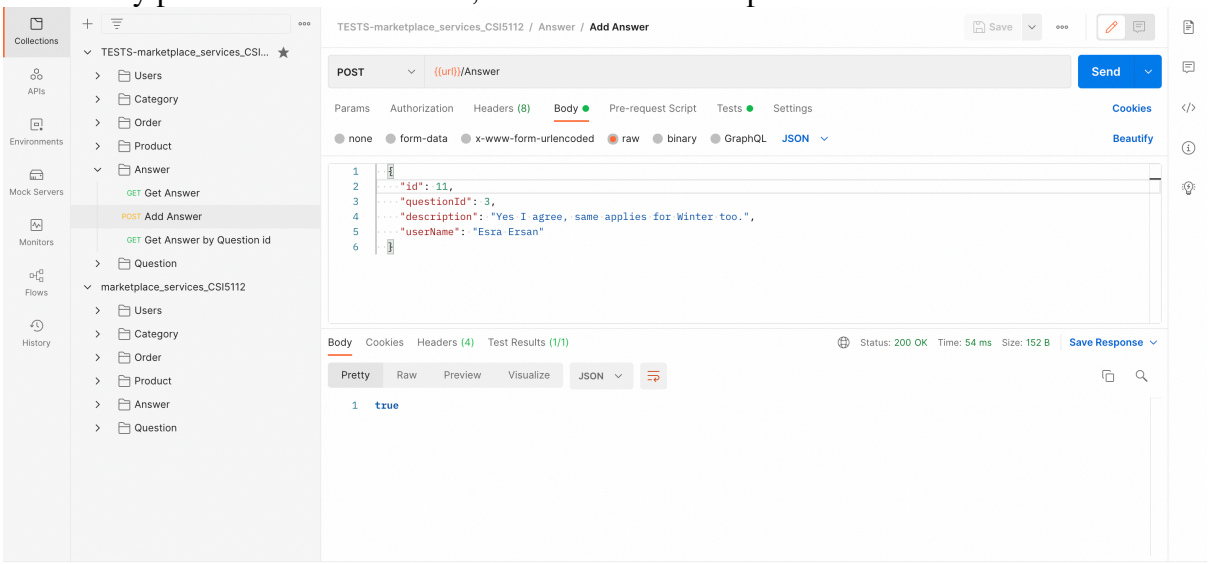
If the Question id is null, then Status Code 400 (Bad Request) will be generated.



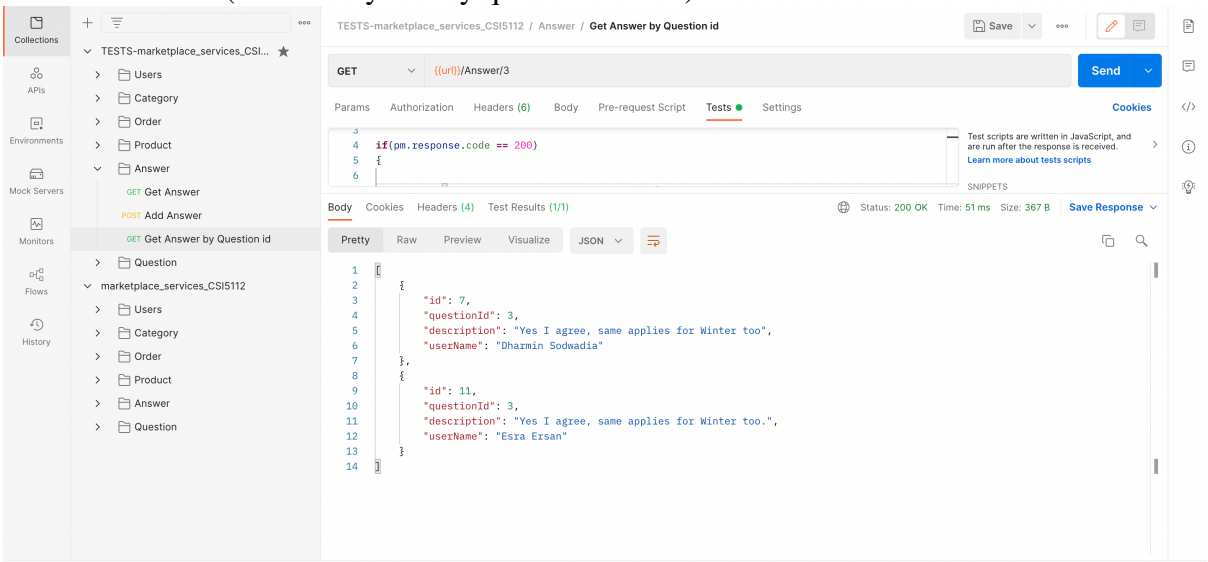
6.3) Post/Add Answer

https://localhost:7136/api/Answer

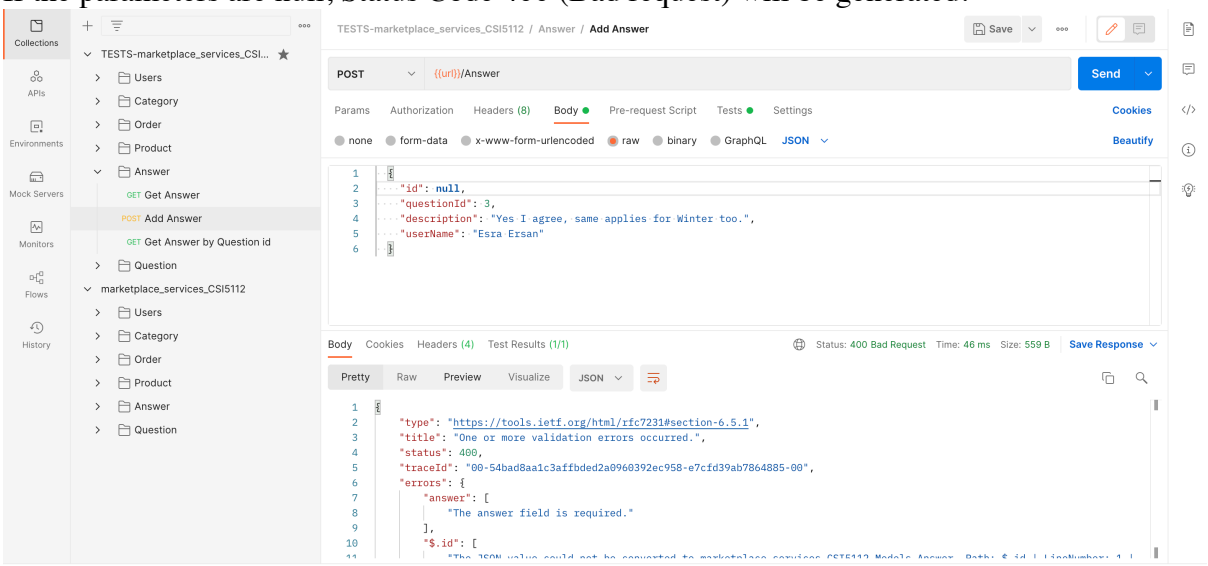
If the Body parameters are validated, The Answer will be posted an status code is 200.



Answer is added (Verified by Get by question id API)



If the parameters are null, Status Code 400 (Bad request) will be generated.



If the Question id is duplicate, Status Code 400 (Bad Request) will be generated.