

Sabuj Kumar Modak

IT Specialist | SQA Trainee | Cybersecurity Specialist

Project Title: API Testing Using Postman

Perform Date: 24 May 2023

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1 Abstract

Postman, a highly popular tool for API development and testing, facilitates the process of sending requests to APIs and receiving their corresponding responses. Although its primary use case revolves around API testing, Postman also offers the capability to conduct performance and load testing. In this project I have used postman to test the API of the web application.

2 Working Procedure

I choose the supported and open-source (GET, POST, PUT, PATCH) method for PI testing using Postman. the following URL: reqres.in

2.1 GET METHOD TEST and RESULT



Figure 1: Expected result

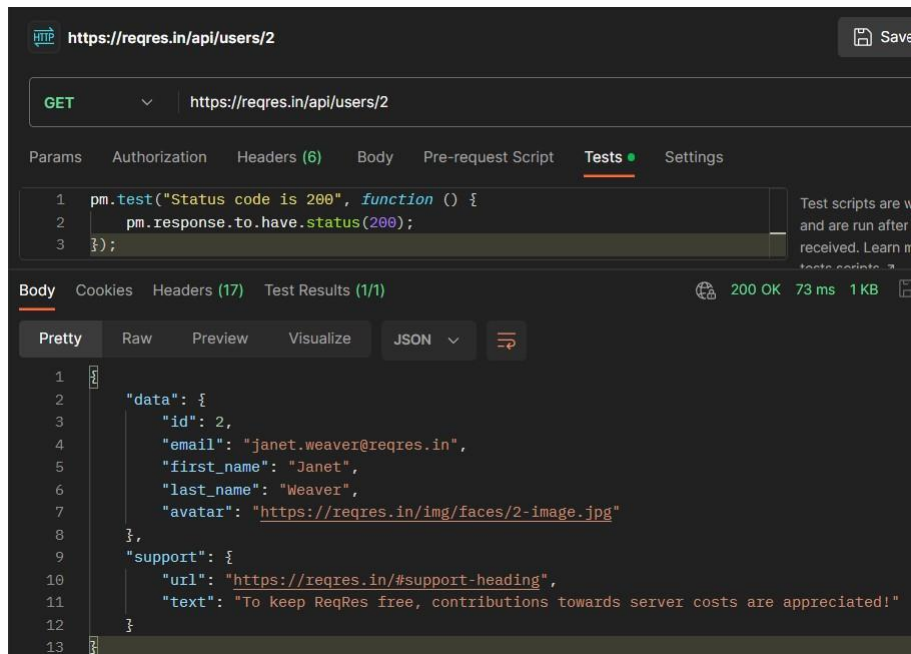


Figure 2: Result

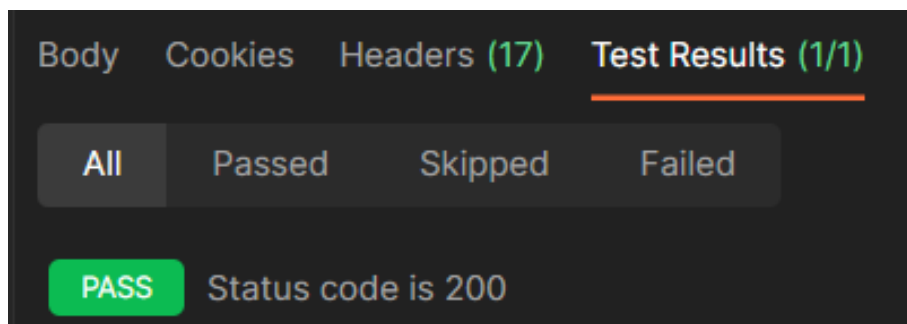


Figure 3: Test Result

2.2 POST METHOD TEST and RESULT



Figure 4: Expected result

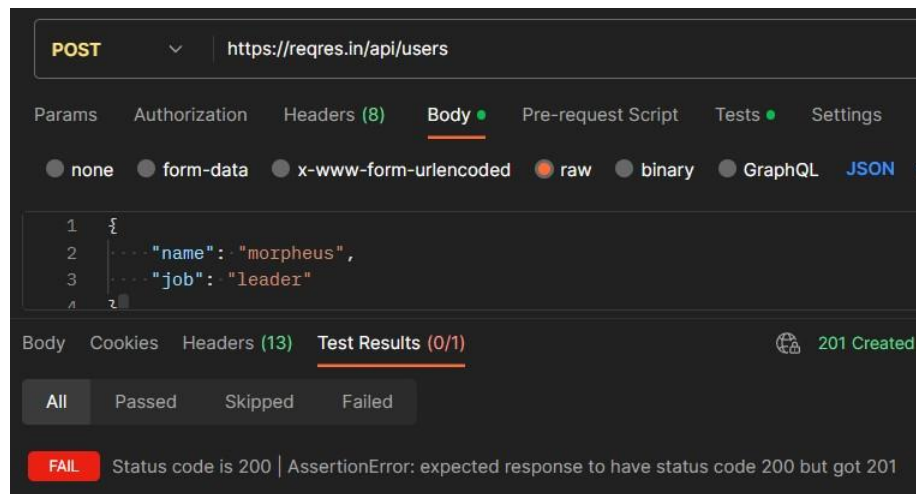


Figure 5: Test Result

2.3 PUT METHOD TEST and RESULT

Request	Response
<code>/api/users/2</code>	<code>200</code>
<pre>{ "name": "morpheus", "job": "zion resident" }</pre>	<pre>{ "name": "morpheus", "job": "zion resident", "updatedAt": "2023-05-26T11:05:25.403Z" }</pre>

Figure 6: Expected result

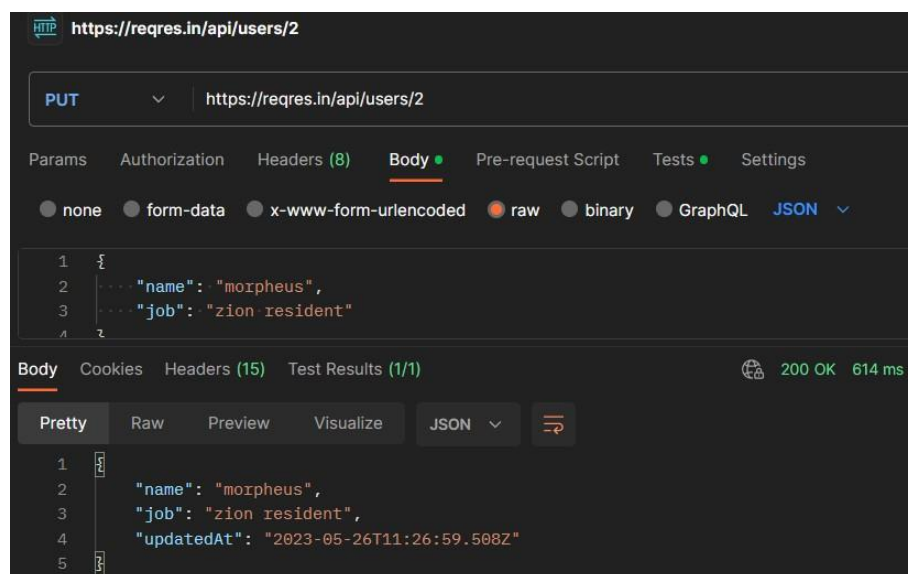


Figure 7: Result

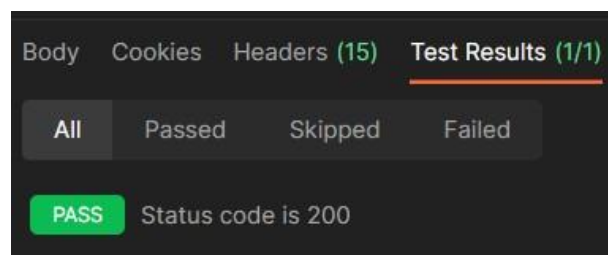


Figure 8: Test Result

2.4 PATCH METHOD TEST and RESULT



Figure 9: Expected result

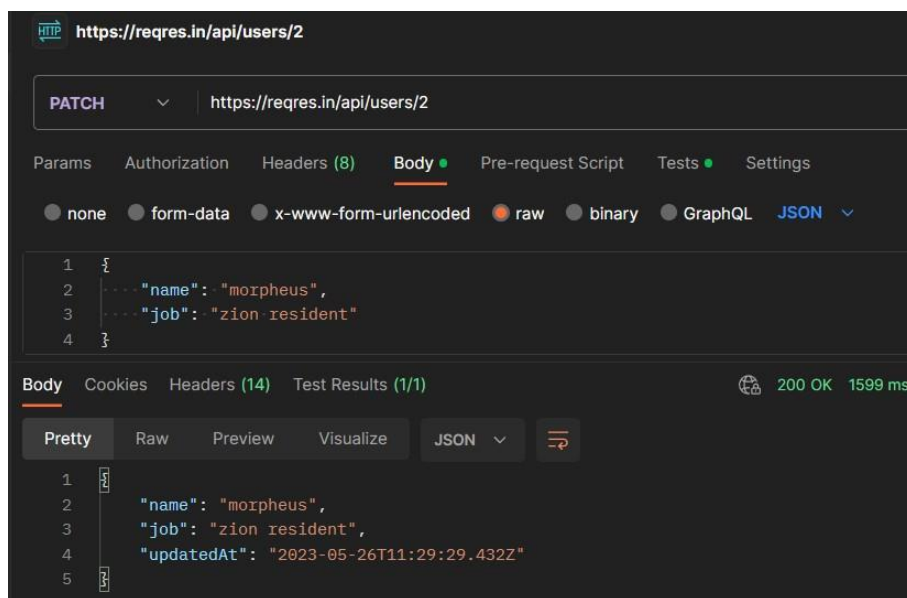


Figure 10: Result

3 Inserting API Responds data Table

Method	API	TEST SCRIPT	Test Response
GET	https://reqres.in/api/users/2	200	TRUE
POST	https://reqres.in/api/users	201	FALSE
PUT	https://reqres.in/api/users/2	200	TRUE
PATCH	https://reqres.in/api/users/2	200	TRUE

Figure 11: Truth Table

Method	Body
GET	<pre>{ "data": { "id": 2, "email": "janet.weaver@reqres.in", "first_name": "Janet", "last_name": "Weaver", "avatar": "https://reqres.in/img/faces/2-image.jpg" }, "support": { "url": "https://reqres.in/#support-heading", "text": "To keep ReqRes free, contributions towards server costs are appreciated!" } }</pre>

Figure 12: GET Response Table

Method	Body
POST	<pre>{ "name": "morpheus", "job": "leader", "id": "907", "createdAt": "2023-05-26T12:45:13.776Z" }</pre>

Figure 13: POST Response Table

Method	Body
PUT	<pre>{ "name": "morpheus", "job": "zion resident", "updatedAt": "2023-05-26T12:46:54.922Z" }</pre>

Figure 14: PUT Response Table

Method	Body
PATCH	<pre>{ "name": "morpheus", "job": "zion resident", "updatedAt": "2023-05-26T12:48:21.434Z" }</pre>

Figure 15: PATCH Response Table

4 Conclusion

Postman's widespread adoption as an API testing and automation tool can be attributed to its versatility and extensive range of features. It streamlines the tasks of sending requests, verifying responses, and fostering collaboration among team members throughout the API testing phase.