

EXPERIMENT NO. - 07

Roll No.	24
Name	Chaitanya Dinesh Dhayarkar
Class	D15B
Subject	Full Stack Development
Lab Outcome	Validating RESTful APIs using Postman.
Date of Performance/ Submission	
Signature & Grades	

Experiment No. 7

Aim: Validating RESTful APIs using Postman.

Code:

GET Request:

Select GET Method:

<https://reqres.in/api/users>

Testing Script

```
Headers (7)  Body  Scripts  Settings

1  pm.test("Status code is 200", function() {
2    pm.response.to.have.status(200);
3  });
4
5  pm.test("Response is JSON", function() {
6    pm.response.to.be.json;
7  });
8
9  pm.test("Contains user data", function() {
10     var jsonData = pm.response.json();
11     pm.expect(jsonData.data.length).to.be.above(0);
12  });
13
```

Add api_key in Authorization:

Key	api_key
Value	reqres-free-v1
Add To	Query Params

Test result

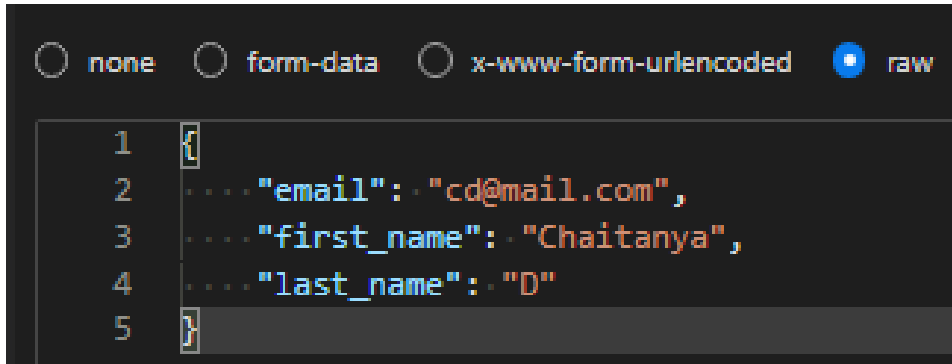
```
PASS  Status code is 200
PASS  Response is JSON
PASS  Contains user data
```

POST Request:

Select POST Method:

<https://reqres.in/api/users>

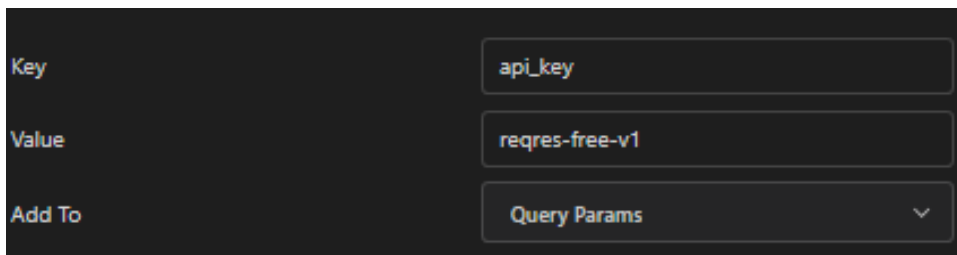
Body (JSON): Go to Body → raw → JSON → add this:



The screenshot shows a REST client interface with four radio buttons at the top: 'none', 'form-data', 'x-www-form-urlencoded', and 'raw'. The 'raw' button is selected. Below the buttons is a text area containing a JSON object:

```
1 {  
2   "email": "cd@mail.com",  
3   "first_name": "Chaitanya",  
4   "last_name": "D"  
5 }
```

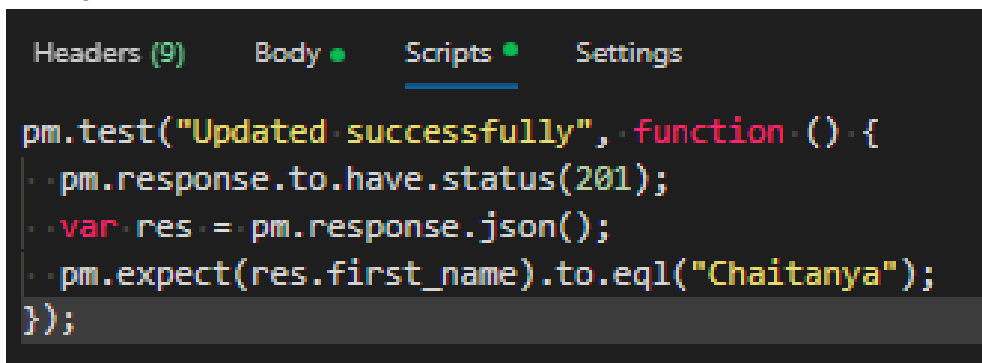
Add api_key in Authorization:



The screenshot shows the 'Authorization' tab in a REST client. It has three input fields:

- Key:** api_key
- Value:** reqres-free-v1
- Add To:** Query Params (with a dropdown arrow)

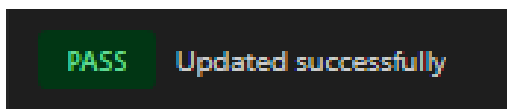
Testing Scripts: Validate POST Response



The screenshot shows the 'Scripts' tab in a REST client. It has four tabs: 'Headers (9)', 'Body', 'Scripts', and 'Settings'. The 'Scripts' tab is selected. Below the tabs is a text area containing a PM test script:

```
pm.test("Updated successfully", function() {  
  pm.response.to.have.status(201);  
  var res = pm.response.json();  
  pm.expect(res.first_name).to.eql("Chaitanya");  
});
```

Test Result:



The screenshot shows the test result in a REST client. It consists of a green box with the word 'PASS' and the text 'Updated successfully' next to it.

PUT Request:

Select PUT Method

<https://reqres.in/api/users/12>

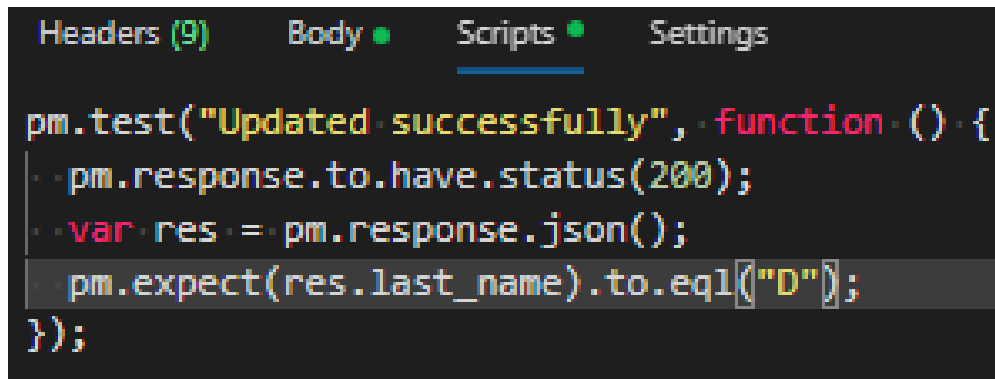
Body(JSON): *Body* → *raw* → *JSON*



The screenshot shows a REST client interface with four radio buttons at the top: **none**, **form-data**, **x-www-form-urlencoded**, and **raw**. The **raw** option is selected. Below the buttons, a text area contains the following JSON body:

```
1 {  
2   "email": "new@mail.com",  
3   "first_name": "Jeo",  
4   "last_name": "D"  
5 }
```

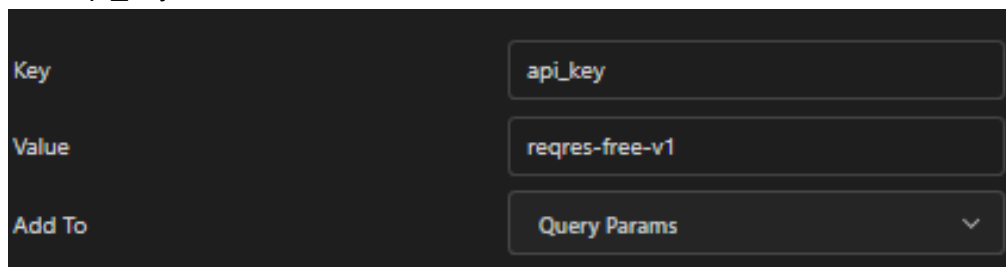
Testing script:



The screenshot shows the REST client interface with four tabs: **Headers (9)**, **Body**, **Scripts**, and **Settings**. The **Scripts** tab is selected. Below the tabs, a text area contains the following testing script:

```
pm.test("Updated successfully", function() {  
  pm.response.to.have.status(200);  
  var res = pm.response.json();  
  pm.expect(res.last_name).to.eql("D");  
});
```

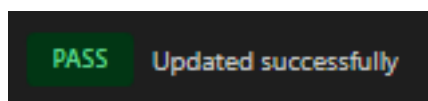
Add api_key in Authorization:



The screenshot shows the REST client interface with three input fields for the Authorization configuration:

Key	Value	Add To
api_key	reqres-free-v1	Query Params

Test result:



The screenshot shows the REST client interface with a green **PASS** button and the text **Updated successfully**.

DELETE Request:

Select DELETE Method:

<https://reqres.in/api/users/1>

Add api_key in Authorization:

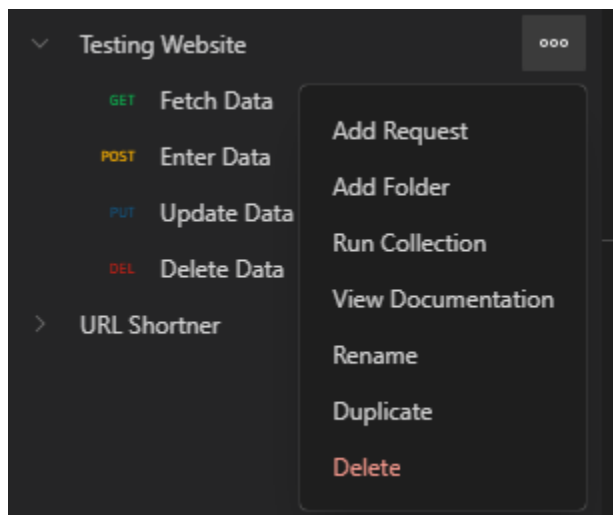
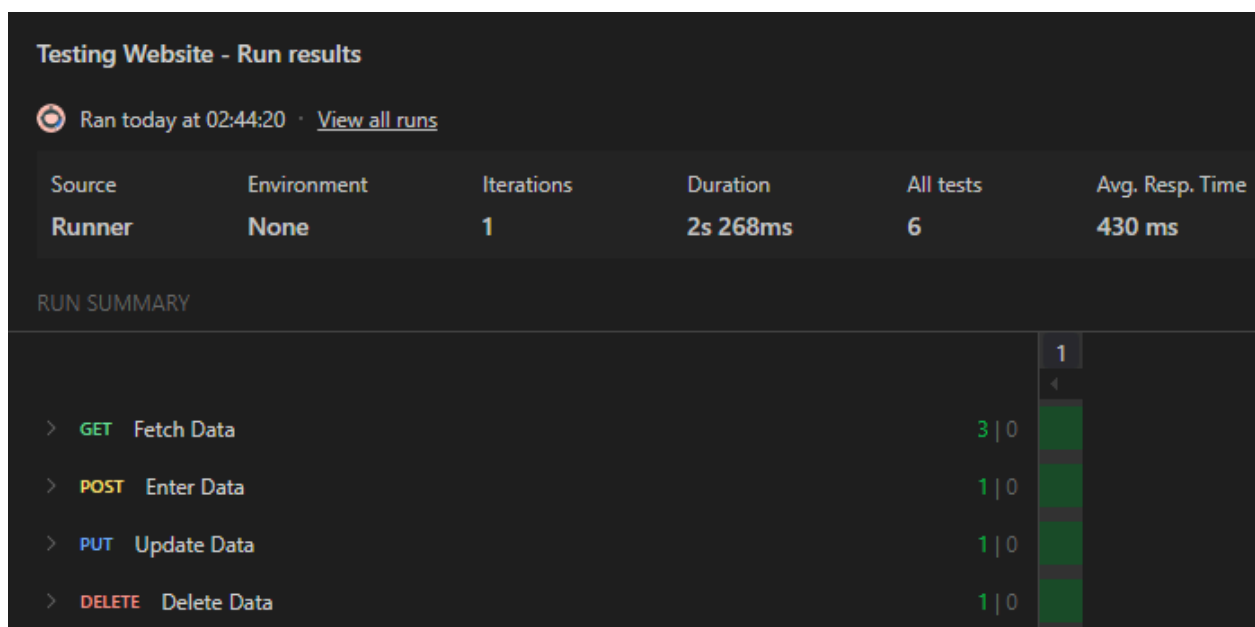
Key	api_key
Value	reqres-free-v1
Add To	Query Params

Testing script:

```
Headers (7)  Body  Scripts  Settings
pm.test("Deleted successfully", function() {
  pm.response.to.have.status(204);
});
```

Test Result:

PASS Deleted successfully

Output:**Run All Tests at Once****Conclusion:**

Postman helps validate RESTful APIs by testing endpoints for correct responses, status codes, and data.

Using test scripts, we can automate checks like email format or record count, ensuring the API works as expected.