EXPERIMENT NO. – 07

Roll No.	24
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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 () {
0     var jsonData = pm.response.json();
1     pm.expect(jsonData.data.length).to.be.above(0);
2   });
3
```

Add api_key in Authorization:

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

Test result
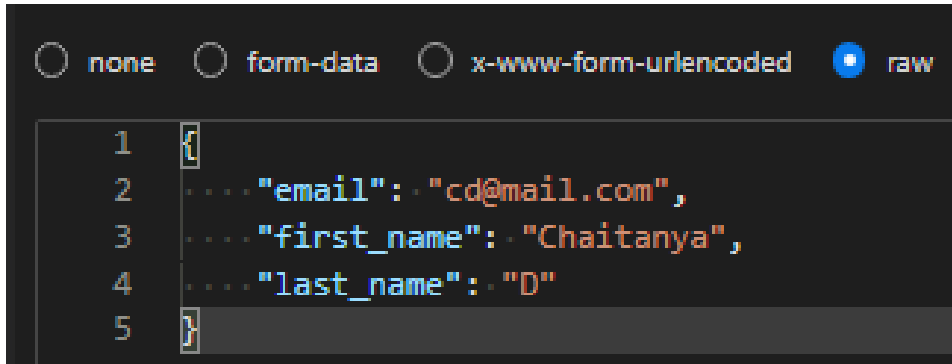
PASS	Status code is 200
PASS	Response is JSON
PASS	Contains user data

POST Request:

Select POST Method:
https://reqres.in/api/users
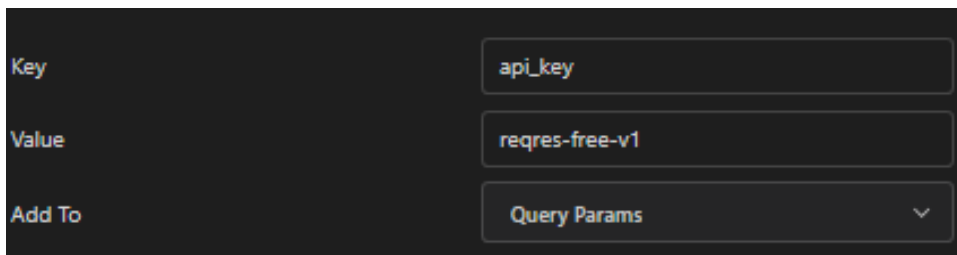
Body (JSON): Go to Body → raw → JSON → add this:

```
  none      form-data      x-www-form-urlencoded      ● raw

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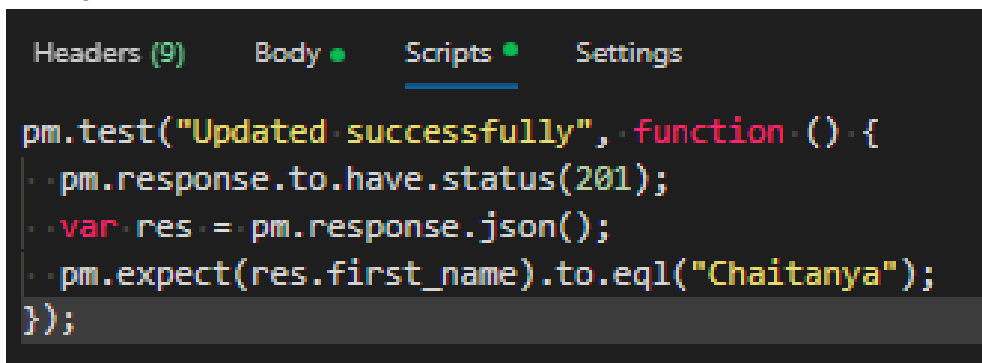
Add api_key in Authorization:

```
Key                                         api_key

Value                                       reqres-free-v1

Add To                                      Query Params                    ⌄
```
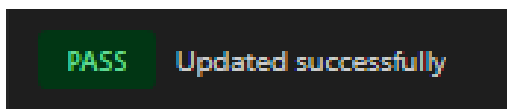
Testing Scripts: Validate POST Response

```
Headers (9)      Body ●      Scripts ●      Settings

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:

```
PASS    Updated successfully
```

PUT Request:

Select PUT Method
https://reqres.in/api/users/12
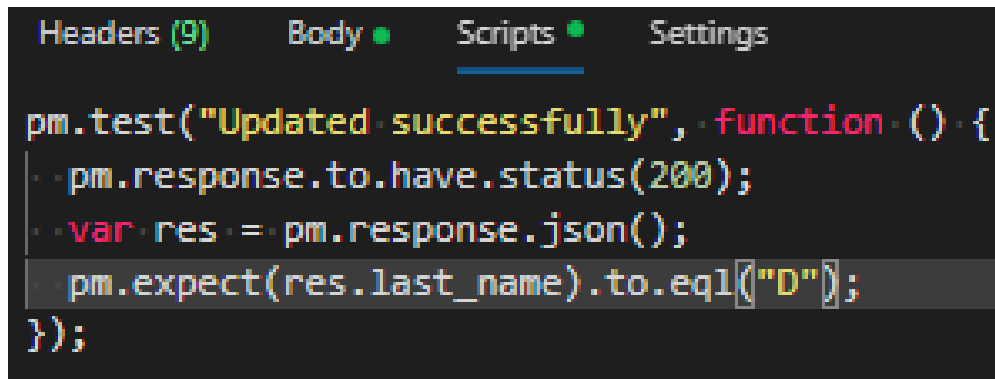
Body(JSON): Body → raw → JSON

○ none	○ form-data	○ x-www-form-urlencoded	● raw

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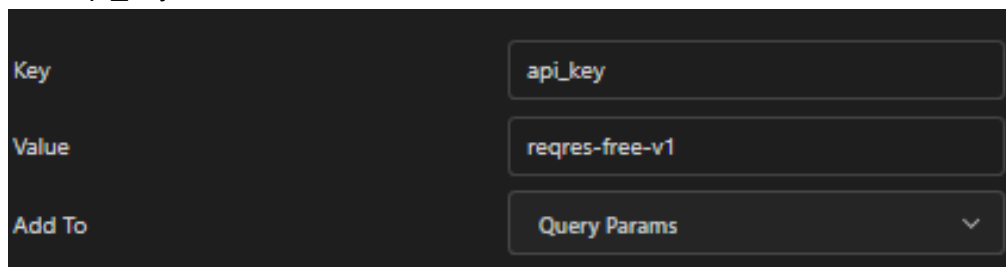
Testing script:

Headers (9)	Body ●	Scripts ●	Settings

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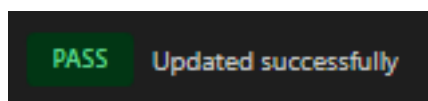
Add api_key in Authorization:

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

Test result:

PASS Updated successfully

DELETE Request:

Select DELETE Method:
https://reqres.in/api/users/1

Add api_key in Authorization:

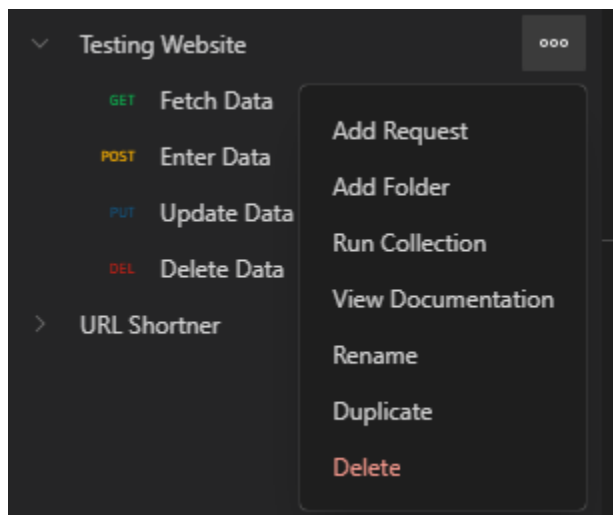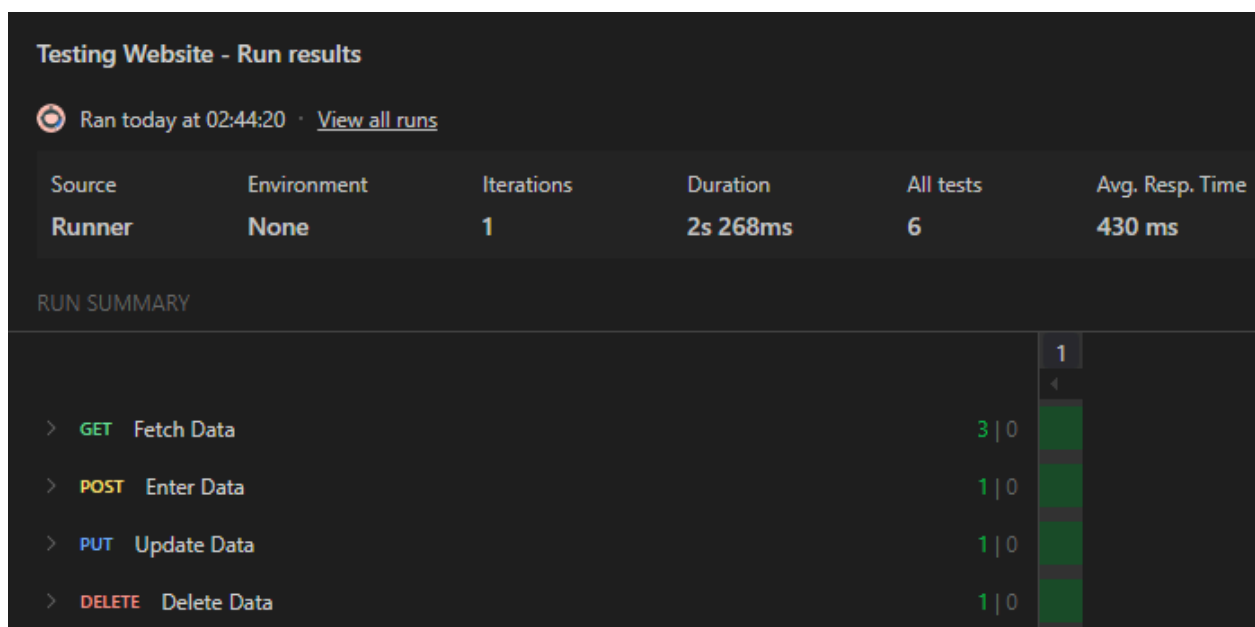| Key	api_key
Value	reqres-free-v1
Add To	Query Params ⌄

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.