

Question 08:

Create a collection in Postman and create positive and negative cases for below API. And use get method to get valid responses.

Verify the HTTP Status Codes, while running Positive and Negative Test Cases.

To validate the HTTP Status Codes and responses use Assertions concept in PostMan

<https://restcountries.com/v3.1/name/India>

Note: Please inform to us if this API is not working as it's an open source API. We will update it accordingly

API Request:

Collection Name: "Que 08 - Vajintha Chandran"

The screenshot displays the Postman application interface. On the left sidebar, a collection named "Que 08 - Vajintha Chandran" is expanded, showing an API folder with a "GET Search by country name" request. The main panel shows the details of this request, which is a GET method to the URL `https://restcountries.com/v3.1/name/India`. The "Query Params" section is empty. The "Body" tab is selected, showing a JSON response in "Pretty" format. The response status is 200 OK, with a time of 983 ms and a size of 1.85 KB. The JSON data is as follows:

```
1  [
2    {
3      "name": {
4        "common": "Australia",
5        "official": "Commonwealth of Australia",
6        "nativeName": {
7          "eng": {
8            "official": "Commonwealth of Australia",
9            "common": "Australia"
10         }
11       }
12     },
13     "tld": [
14       ".au"
15     ],
16     "cca2": "AU",
17     "ccn3": "636",
18     "cca3": "AUS",
19     "flags": {
20       "png": "https://restcountries.com/v3.1/flag/au/1"
21     }
22   }
23 ]
```

Positive Testcases:

The screenshot shows the Postman interface with a REST client request configured for a GET method to the URL `https://restcountries.com/v3.1/name/australia`. The request is part of a collection named 'Que 08 - Vajintha Chandran' under the 'API' folder. The 'Tests' tab is active, displaying the following JavaScript test scripts:

```
1 pm.test("Verifying Response Status code : 200", function () {
2   pm.response.to.have.status(200);
3 });
4
5 pm.test("Verifying Response Status code name : OK", () => {
6   pm.response.to.have.status("OK");
7 });
8
9 pm.test("Verifying Content-Type header : application/json", () => {
10   pm.expect(pm.response.headers.get('Content-Type')).to.eql('application/json');
11 });
12
13 pm.test("Verifying Country Official and Common Names : Commonwealth of Australia | Australia", function() {
14   const responseJson = pm.response.json();
15   pm.expect(responseJson[0].name.official).to.eql("Commonwealth of Australia");
16   pm.expect(responseJson[0].name.common).to.eql("Australia");
17 });
18
19 pm.test("Verifying data type of Latitude and longitude : number", function() {
20   const responseJson = pm.response.json();
21   pm.expect(responseJson[0].latlng).to.be.a("array");
22   pm.expect(responseJson[0].latlng[0]).to.be.a("number");
23   pm.expect(responseJson[0].latlng[1]).to.be.a("number");
24 });
25
26 pm.test("Verifying Continent of the Country is one of available 7 continents : Yes and Valid", function() {
27   const responseJson = pm.response.json();
28   pm.expect(responseJson[0].continents[0]).to.be.oneOf(["Asia", "Africa", "North America", "South America", "Antarctica", "Europe", "Oceania"]);
29 });
30
31 pm.test("Verifying Response time is less than 2s", () => {
32   pm.expect(pm.response.responseTime).to.be.below(2000);
33 });
```

The 'Test Results (7/7)' tab shows all tests passed:

- PASS Verifying Response Status code : 200
- PASS Verifying Response Status code name : OK
- PASS Verifying Content-Type header : application/json
- PASS Verifying Country Official and Common Names : Commonwealth of Australia | Australia
- PASS Verifying data type of Latitude and longitude : number
- PASS Verifying Continent of the Country is one of available 7 continents : Yes and Valid
- PASS Verifying Response time is less than 2s

```
1 pm.test("Verifying Response Status code : 200", function () {
2   pm.response.to.have.status(200);
3 });
4
5 pm.test("Verifying Response Status code name : OK", () => {
6   pm.response.to.have.status("OK");
7 });
8
9 pm.test("Verifying Content-Type header : application/json", () => {
10   pm.expect(pm.response.headers.get('Content-Type')).to.eql('application/json');
11 });
12
13 pm.test("Verifying Country Official and Common Names : Commonwealth of Australia | Australia", function() {
14   const responseJson = pm.response.json();
15   pm.expect(responseJson[0].name.official).to.eql("Commonwealth of Australia");
16   pm.expect(responseJson[0].name.common).to.eql("Australia");
17 });
18
19 pm.test("Verifying data type of Latitude and longitude : number", function() {
20   const responseJson = pm.response.json();
21   pm.expect(responseJson[0].latlng).to.be.a("array");
22   pm.expect(responseJson[0].latlng[0]).to.be.a("number");
23   pm.expect(responseJson[0].latlng[1]).to.be.a("number");
24 });
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26 pm.test("Verifying Continent of the Country is one of available 7 continents : Yes and Valid", function() {
27   const responseJson = pm.response.json();
28   pm.expect(responseJson[0].continents[0]).to.be.oneOf(["Asia", "Africa", "North America", "South America", "Antarctica", "Europe", "Oceania"]);
29 });
30
31 pm.test("Verifying Response time is less than 2s", () => {
32   pm.expect(pm.response.responseTime).to.be.below(2000);
33 });
```

Note: since country “India” contains some wrong values in the response, used “Australia” for positive testcases.

Negative Testcases:

My Workspace

Que 08 - Vajintha Chandran

- API
 - GET Search by country name
- Positive TCs
 - GET Search by country | name
 - GET Search by country | name = all in UPPER case
 - GET Search by country | http instead of https
- Negative TCs
 - GET Search by country | name=null
 - GET Search by country | name is empty
 - GET Search by country | name = empty string
 - GET Search by country | name = invalid name
 - GET Search by country | name = number
 - POST Search by country | POST method instead of GET
 - PUT Search by country | PUT method instead of GET
 - DEL Search by country | DELETE method instead of GET

GET <https://restcountries.com/v3.1/name/123> Send

Params Authorization Headers (6) Body Pre-request Script Tests Settings Cookies

```
10 pm.expect(pm.response.headers.get('Content-Type')).to.eql('application/json');
11 };
12
13 pm.test("Verifying error status and message available in the response body : 404 | Not Found", function() {
14   const responseJson = pm.response.json();
15   pm.expect(responseJson.status).to.eql(404);
16   pm.expect(responseJson.message).to.eql("Not Found");
17 });
```

Body Cookies Headers (6) Test Results (4/4) Status: 404 Not Found Time: 1009 ms Size: 239 B Save as Example

All Passed Skipped Failed

- PASS Verifying Response Status code : 404
- PASS Verifying Response Status code name : Not found
- PASS Verifying Content-Type header : application/json
- PASS Verifying error status and message available in the response body : 404 | Not Found

5 new notifications

My Workspace

Que 08 - Vajintha Chandran

- API
 - GET Search by country name
- Positive TCs
 - GET Search by country | name
 - GET Search by country | name = all in UPPER case
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 - GET Search by country | name=null
 - GET Search by country | name is empty
 - GET Search by country | name = empty string
 - GET Search by country | name = invalid name
 - GET Search by country | name = number
 - POST Search by country | POST method instead of GET
 - PUT Search by country | PUT method instead of GET
 - DEL Search by country | DELETE method instead of GET

GET <https://restcountries.com/v3.1/name/> Send

Params Authorization Headers (6) Body Pre-request Script Tests Settings Cookies

```
10 pm.expect(pm.response.headers.get('Content-Type')).to.eql('application/json');
11 };
12
13 pm.test("Verifying error message available in the response body : Page Not Found", function() {
14   const responseJson = pm.response.json();
15   pm.expect(responseJson.message).to.eql("Page Not Found");
16 });
```

Body Cookies Headers (6) Test Results (4/4) Status: 404 Not Found Time: 262 ms Size: 289 B Save as Example

All Passed Skipped Failed

- PASS Verifying Response Status code : 404
- PASS Verifying Response Status code name : Not found
- PASS Verifying Content-Type header : application/json
- PASS Verifying error message available in the response body : Page Not Found

Home Workspaces API Network Explore

Search Postman

My Workspace

New Import

Que 08 - Vajintha Chandran / Negative TCs / Search by country | POST method instead of GET

POST https://restcountries.com/v3.1/name/India

Send

Params Authorization Headers (7) Body Pre-request Script Tests Settings Cookies

```
1 pm.test("Verifying Response Status code : 405", function () {
2   pm.response.to.have.status(405);
3 });
4
5 pm.test("Verifying Response Status code name : Method Not Allowed", () => {
6   pm.response.to.have.status("Method Not Allowed");
7 });
8
9 pm.test("Verifying Content-Type header : application/json", () => {
10  pm.expect(pm.response.headers.get('Content-Type')).to.eql('application/json');
11 });
12
13 pm.test("Verifying error message available in the response body : Method [POST] not
    allowed for URI [/v3.1/name/India]. Allowed methods: [HEAD, GET]", function() {
14   const responseJson = pm.response.json();
15   pm.expect(responseJson.message).to.eql("Method [POST] not allowed for URI [/v3.1/name/
    India]. Allowed methods: [HEAD, GET]");
16 });
```

Body Cookies Headers (7) Test Results (4/4) Status: 405 Method Not Allowed Time: 970 ms Size: 390 B Save as Example

All Passed Skipped Failed

PASS Verifying Response Status code : 405

PASS Verifying Response Status code name : Method Not Allowed

PASS Verifying Content-Type header : application/json

PASS Verifying error message available in the response body : Method [POST] not allowed for URI [/v3.1/name/India]. Allowed methods: [HEAD, GET]

```
1 pm.test("Verifying Response Status code : 405", function () {
2   pm.response.to.have.status(405);
3 });
4
5 pm.test("Verifying Response Status code name : Method Not Allowed", () => {
6   pm.response.to.have.status("Method Not Allowed");
7 });
8
9 pm.test("Verifying Content-Type header : application/json", () => {
10  pm.expect(pm.response.headers.get('Content-Type')).to.eql('application/json');
11 });
12
13 pm.test("Verifying error message available in the response body : Method [PUT] not
    allowed for URI [/v3.1/name/India]. Allowed methods: [HEAD, GET]", function() {
14   const responseJson = pm.response.json();
15   pm.expect(responseJson.message).to.eql("Method [PUT] not allowed for URI [/v3.1/name/
    India]. Allowed methods: [HEAD, GET]");
16 });
```

Executes all the testcases:

My Workspace

NewImport

Collections

Que 08 - Vajintha Chandran

API

GET Search by country name

Positive TCs

GET Search by country | name

GET Search by country | name = all in UPPER case

GET Search by country | http instead of https

Negative TCs

GET Search by country | name=null

GET Search by country | name is empty

GET Search by country | name = empty string

GET Search by country | name = invalid name

GET Search by country | name = number

POST Search by country | POST method instead of GET

PUT Search by country | PUT method instead of GET

DEL Search by country | DELETE method instead of GET

Que 08 - Vajintha Chandran - Run results

Run Again

Automate Run

New Run

Export Results

Source	Environment	Iterations	Duration	All tests	Avg. Resp. Time
Runner	none	1	33s 993ms	53	649 ms

All Tests Passed (53) Failed (0) Skipped (0)

View Summary

https://restcountries.com/v3.1/name/india

405 Method Not Allowed 347 ms 389 B1

PASS Verifying Response Status code : 405

PASS Verifying Response Status code name : Method Not Allowed

PASS Verifying Content-Type header : application/json

PASS Verifying error message available in the response body : Method [POST] not allowed for URI [/v3.1/name/India]. Allowed methods: [HEAD, GET]

PUT Search by country | PUT method instead of GET

https://restcountries.com/v3.1/name/India

405 Method Not Allowed 566 ms 388 B

PASS Verifying Response Status code : 405

PASS Verifying Response Status code name : Method Not Allowed

PASS Verifying Content-Type header : application/json

PASS Verifying error message available in the response body : Method [PUT] not allowed for URI [/v3.1/name/India]. Allowed methods: [HEAD, GET]

DELETE Search by country | DELETE method instead of GET

https://restcountries.com/v3.1/name/India

405 Method Not Allowed 319 ms 391 B

PASS Verifying Response Status code : 405

PASS Verifying Response Status code name : Method Not Allowed

PASS Verifying Content-Type header : application/json

PASS Verifying error message available in the response body : Method [DELETE] not allowed for URI [/v3.1/name/India]. Allowed methods: [HEAD, GET]

OnlineFind and replaceConsoleImport Complete

PostbotRunnerStart ProxyCookiesTrash

Note: I have attached the collection execution test report