

API Test Cases

Scenario 1: Check your IP information

Test case 1: verify getting the current IP and verify that it is not a Null or Empty string

Endpoint: <https://api.ipify.org/>

Method: GET

Parameters: **Type:** query parameter, **parameter name:** format, **parameter value:** json

Expected Result: the status code should be 200, the IP key should not be the null or empty string, and extracted to a variable

Steps:

1. Send a request with the above link
2. Check the status code is 200
3. Check Ip is not an empty string
4. Check ip is not null
5. Extract ip value to a variable

Test case 2: verify getting the IP information

note: This TC depends on TC1

Endpoint: <https://ipinfo.io/enterValidIP/geo>

Method: GET

Parameters: **Type:** path parameter, **parameter value:** your valid IP

Expected Result: the status code should be 200, the IP key should be equal to the IP passing in the request, and the city, region, and country keys should not be null

Steps:

1. Send a request with a valid IP
2. Check the status code is 200
3. Check IP key in the response is equal to the IP passing in the request
4. Check the city, region, and country keys are not null

Test case 3: verify getting the IP information

Endpoint: <https://ipinfo.io/inValid/geo>

Method: GET

Parameters: **Type:** path parameter **parameter value:** your In Valid IP

Expected Result: the status code should be 404, and the response contains an error object with the title equal to Wrong IP

Steps:

1. Send a request with an invalid IP
2. Check the status code is 404
3. Check that the error title is "Wrong IP"

Scenario 2: verify Prediction of age and nationality based on name

Test case 1: verify getting the age of the person based on his name

Endpoint: <https://api.agify.io/>

Method: GET

Parameters:Type: query parameter, **parameter name:** name, **parameter value:** valid name

Expected Result: the status code should be 200, the age is not null and the count is greater than zero

Steps:

1. Send a request with a valid name
2. Check the status code is 200
3. Check the age key is not null
4. Check the count key is greater than zero

Test case 2: verify if I entered an invalid name, there are no persons matching that name

Endpoint: <https://api.agify.io/>

Method: GET

Parameters:Type: query parameter, **parameter name:** name, **parameter value:** invalid name

Expected Result: the status code should be 200, the age is not null and the count is greater than zero

Steps:

1. Send a request with an invalid name
2. Check the status code is 200
3. Check the age key is null
4. Check the count key is equal to zero

Test case 3: Verify the response code when I do not provide a query parameter or an invalid query parameter key

Endpoint: <https://api.agify.io/>

Method: GET

Parameters:Type: query parameter, **parameter name:** invalid name, **parameter value:** any value

Expected Result: the status code should be 422

Steps:

1. Send a request without a query parameter or with an invalid query parameter name
2. Check the status code is 422

Test case 4: verify getting the nationality of the person based on his name

Endpoint: <https://api.nationalize.io/>

Method: GET

Parameters:Type: query parameter, **parameter name:** name, **parameter value:** valid name

Expected Result: the status code should be 200, the country array size should be greater than zero and the count is greater than zero

Steps:

1. Send a request with a valid name
2. Check the status code is 200
3. Check the country key is an array with a size greater than zero
4. Check the count key is greater than zero

Test case 5: verify if I entered an invalid name, there are no persons matching that name

Endpoint: <https://api.nationalize.io/>

Method: GET

Parameters:Type: query parameter, **parameter name:** name, **parameter value:** invalid name

Expected Result: the status code should be 200, the age is not null and the count is greater than zero

Steps:

1. Send a request with an invalid name
2. Check the status code is 200
3. Check the country key is an empty array
4. Check the count key is equal to zero

Test case 6: Verify the response code when I do not provide a query parameter or an invalid query parameter key

Endpoint: <https://api.nationalize.io/>

Method: GET

Parameters:Type: query parameter, **parameter name:** invalid name, **parameter value:** any value

Expected Result: the status code should be 422

Steps:

1. Send a request without a query parameter or with an invalid query parameter name
2. Check the status code is 422

Scenario 3: verify Getting random things

Test case 1: Verify getting a random dog image

Endpoint: <https://dog.ceo/api/breeds/image/random>

Method: GET

Expected Result: the status code should be 200, the status is success and the message starts with HTTPS and end with .jpg

Steps:

1. Send a request
2. Check the status code is 200
3. Check the status is success
4. Check the message starts with HTTPS and ends with .jpg

Test case 2: Verify getting a random joke

Endpoint: https://official-joke-api.appspot.com/random_joke

Method: GET

Expected Result: the status code should be 200, and the setup and punchline are not empty strings

Steps:

1. Send a request
2. Check the status code is 200
3. Check the setup and punchline keys are not empty strings

Test case 3: Verify getting a random fact

Endpoint: <https://catfact.ninja/fact>

Method: GET

Expected Result: the status code should be 200, the fact is not null and the length key should be equal to the fact key length

Steps:

1. Send a request
2. Check the status code is 200
3. Check the fact key is not null
4. Extract the fact key from the response and get its length
5. Check the length key is equal to the fact key length

Test case 4: Verify getting a random activity

Endpoint: <https://www.boredapi.com/api/activity>

Method: GET

Expected Result: the status code should be 200, the activity is not a null or empty string and the participants is greater than zero

Steps:

1. Send a request
2. Check the status code is 200
3. Check the activity e key is not a null or empty string
4. Check the participants key is greater than zero

Scenario 4: verify Getting user info

Test case 1: Verify getting user information with a response time of less than 1500ms

Endpoint: <https://randomuser.me/api/>

Method: GET

Expected Result: the status code should be 200, the response time is less than 1500, and the date for the user exists

Steps:

1. Send a request
2. Check the status code is 200
3. Check the response time is less than 1500ms
4. Check the gender of the user is either male or female
5. Check the title, first name, and last name are in the response

Scenario 5: verify Getting zip code places

Test case 1: verify the zip code places when I'm passing a valid zip code

Endpoint: <https://api.zippopotam.us/us/>

Method: GET

Parameters: **Type:** path parameter, **parameter value:** your valid zip code

Expected Result: the status code should be 200, and the places should not be empty

Steps:

1. Send a request
2. Check the status code is 200
3. Check postcode key in the response is equal to the code passing in the request
4. Check the places key is an array with a size greater than zero

Test case 2: verify the zip code places when I'm passing an invalid zip code

Endpoint: <https://api.zippopotam.us/us/>

Method: GET

Parameters: **Type:** path parameter, **parameter value:** your invalid zip code

Expected Result: the status code should be 404

Steps:

1. Send a request
2. Check the status code is 404

Scenario 6: verify Getting the Bitcoin Price Index in real-time.

Test case 1: Verify the last update of BPI

Endpoint: <https://api.coindesk.com/v1/bpi/currentprice.json>

Method: GET

Expected Result: the status code should be 200, and the last update is today

Steps:

1. Send a request
2. Check the status code is 200
3. Check the updated iso key is the same as today
4. Check the bpi key has 3 keys which are USD, GBP, and EUR