Twitter API Test Suite

In this test suite we will test and check if end points of the API work properly at creating a tweet, looking for that tweet, deleting the tweet, hide replies and search for user, blocking users, checking the list of the current blocked users and also unblocking some of them. All test will start by checking if the status code is correct to the test done, for example if we want to properly publish a tweet the code needed in the test should be 201. The second part of the tests are done to make sure that the body of the response is properly done and have the correct information from the Valid Request.

The tests are divided in two sections and will be performs in order. Section one tests are “Valid Requests” and section two test are “Invalid or Unauthorized tests”. This was made to test if the methods and endpoints of our API would work and respond accordingly to documentation when a valid request was made and also when an invalid or unauthorized request was done.

First we we will go through our “Valid Requests” tests.

1. ***Creating a tweet***

Before the test was done a random word or name was generated to be published inside the tweet and was saved in side a environment variables in Postman and used in the body of the request.

To check if the tweet was published properly and the API response is properly done we will check the status code test and also important part of the body response that include the tweet id and tweet content or text.

* Status code should be 201.
* Should include tweet id
* Should include tweet text

After the tests are done the tweet id and text are saved into environments variables to use the upcoming tests.

1. ***Checking tweet***

Using the variables created in our last test we will search for the tweet by its id. We will test if the id finds the proper response from this endpoint. First we will check the status code and then check if the response body includes the tweet id and the tweet text.

* Status code should be 200
* Should include tweet id
* Should tweet text

1. ***Delete a Tweet***

Using the previous tweet id we will delete it and confirm that it was deleted by the response body from our endpoint. First we will check the status code and then we will check if the response includes ‘{“deleted”:”true”}’, confirming that the tweet was deleted.

* Status code should be 200
* Should confirm that tweet is deleted

1. ***Search User by User name***

In this simple test we will test that the endpoint can successfully search an user by its user name. In this test, in our ‘*pre-request script*’, we will create a function that randomly selects an user name from a list and it will be saved into an environment variable that can be used in our parameters to look for a user. To test this endpoint we will first check the status code and then check if the response includes the user id, user and username.

* Status code should be 200
* Should include User ID
* Should include name
* Should include username

1. ***Blocks look up***

In this test we will look the users blocked by the owner of the API key. To test this endpoint we will check the status code, check if the response includes the result\_count or the number of users blocked by the user and also the number of users block. In this case should be zero.

* Status code should be 200
* Body response should include ‘result\_count’
* ‘result\_count’ should be 0

Now, we will test some of the same endpoints and check if they respond properly to an invalid or unauthorized request from an user.

*\*For most of these tests we will have an Unauthorized version, those will work the same.This will be a simulation of the response that the API has when an user uses key that does not have permission to read or write. First we will check for the status code that should be 401 and then we will check for the response body and look to find the “title” section that should say “Forbidden”.*

* *Status code should be 401*
* *Title should say ‘’Unauthorized”*

1. ***Create a Tweet***
   1. ***Unauthorized\****
   2. ***Invalid Input***

In this test we will check if this endpoint responds properly to the user trying to publish a tweet with the same text inside it. We will first check the Status code that should be 403 Forbidden and the we will check the error details and title. Details should describe that the user is trying to publish a duplicated tweet. The tittle should say Forbidden.

* Status code should be 403
* Should include warning on duplicate content
* Title should say ‘Forbidden’

1. ***Check Tweet***
   1. ***Unauthorized\****
   2. ***Tweet Unavailable***

In this test we will check the response when we search for a tweet and it doesn't exist and cant be found. First we will check the Status code that should be 200 and then we will check the title section of the response body and it should say “Not Found Error”

* Status code should be 200
* Title should indicate ‘Not Found Error’

1. ***Delete Tweet***
   1. ***Unauthorized\****
2. ***Search User by User name***
   1. ***Unauthorized\****
   2. ***Invalid Input***

This test will check what happens when we look for a user by its username but we use a invalid character in the parameters. First we will check status code, it should be 400, then we will check the title section that should say ‘Invalid Request’ and finally we will check for the error details and confirm that the message says the one of the parameters is invalid.

* Status code should be 400
* Title should say ‘Invalid Request’
* Details should declare parameters invalid
  1. ***User not Found***

Before the test is done we created a function that takes a username from an array at random and saves it inside an environment variables so we can use it in the parameters. All of the user names inside the array will cause the same response from the endpoint, which is “user not found” error. To test this we will first check the status code that should be 200 and then we will look for the response message that indicate the the user could not be found using the parameters given by the user. Then we will check the title section that should say “Not Found Error”.

* Status code should be 200
* Should include message ‘Could not fund user’
* Title should say ‘Not Found Error’

1. ***Block look up***

This test will check the response given by this endpoint when the user inputs a parameters that is not his own account id to check the blocked users list or the number of user blocked. According to the documentation the parameter should use the id from the user that is also the owner of the API keys. To test this we will first check the status code that should 400, then we will check for the title section inside the response that should say “Invalid Request” and the finally we will confirm through the error details that the parameter is invalid.

* Status code should be 400
* Title should say ‘Invalid Request’
* Should confirm one or more parameters are invalid

Here is the link to join the workspace and check the test suite.

<https://app.getpostman.com/join-team?invite_code=3c1e810daff1f7c995dd8752d4503140&target_code=b52a031d5ae8df2d83af7ad619b2d09b>

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