

Relayr QA Task - API Test Cases

Test Cases for Zomato Public API & Reqres API

I have used Gherkin language for writing test cases. I have implemented some of the below-mentioned test cases in my API automation scripts. Though there can be many test cases here, I have tried to accomplish all major API request methods (GET, POST, PUT, DELETE) using Reqres API and I was allowed to automate only GET request method for Zomato Public API as there was no POST request method exposed to the public

The API key in the request headers for Zomato is public and can be used or called 1000 times in a day and so I left the key in the code itself in order to run those tests by you!

Feature: Verify GET operation for Zomato

Scenario: I send GET request for Mumbai city along with the API key

Given I connect to the Zomato authentication service successfully

When I set a request header

AND send a GET HTTP request for cities?q=mumbai

Then I Verify the response with the expected data & I receive valid HTTP response code 200

Scenario: I send GET request for New York City along with the API key

Given I connect to the Zomato authentication service successfully

When I set a request header

AND send a GET HTTP request for cities?q=NewYork

Then I Verify the fetched response with the expected list of NewYork cities data & I receive valid HTTP response code 200

Scenario: I send parametrized GET request for Cities along with the API key

Given I connect to the Zomato authentication service successfully

When I set a request header

AND send a GET HTTP request for cities service in a parametrized format

Then I Verify the response with the expected data & I receive valid HTTP response code 200

Scenario: I send GET request for Mumbai city without the API key

Given I cannot connect to the Zomato authentication service successfully

When I don't set a request header

AND send a GET HTTP request for cities?q=mumbai

Then I Verify the response with the expected data & I receive valid HTTP response code 403

Feature: Verify CRUD request methods for Reqres API

Scenario: Create New user

Given I set POST user service endpoint

When I set a request header

And Send a POST HTTP request

Then I Verify User is created & I receive valid HTTP response code 201

Scenario: Get user details

Given I set GET user service endpoint

When I set a request header

And Send a GET HTTP request

Then I Verify User details are fetched as expected & I receive valid HTTP response code 200

Scenario: Update existing user details

Given I set PUT user service endpoint

When I set update request body header

And Send a PUT HTTP request

Then I Verify User details are updated & I receive valid HTTP response code 200

Scenario: Delete an existing user

Given I set DELETE user service endpoint

When I send DELETE HTTP request

Then I receive valid HTTP response code 204

I even wanted to write the Negative Test cases for Reqres API like Missing the Body while sending POST or PUT request methods or requesting GET method with wrong parameters in the header, but the Reqres API always sends back 200 response code when any of the parameters are missing instead of throwing an error and so I didn't cover Negative Test cases

And because of the Time limit, I couldn't search for another API where I can cover both positive and negative test cases for one single API