

# Postman API TEST based on user story requirements

Date: May.31.2023

Tester: Tester YJ

This report has been designed with the sole purpose of demonstrating my Postman API testing skills and is added to my GitHub Portfolio.

The main objective of this testing exercise is to validate the functionality of an API endpoint based on predefined user story requirements. The test cases have been meticulously designed to cover different scenarios and acceptance criteria, aiming to ensure a seamless increase in play count for registered users.

## User Story:

As a registered user I should be able to increase play count.

## Acceptance criteria:

1. The POST api/interaction/play will be developed.
2. Authorization is required (Bearer token).
3. Endpoint accepts following payload in Song field (example): {songID}
4. Song ID is required.
5. Verification:
  - Error message - Requested song doesn't exist.
  - Song Id does not exist - 404 Not Found
  - Success - 200 Ok

## Test Case: Steps and Results

Test Case	Verify	Endpoint	Authorization	Payload	Expected Output	Actual Output	Pass /Fail / Blocked
KL 1	Verify the endpoint (POST api/interaction/play) is well developed and functional	POST api/interaction/play	Bearer token	{ "songID": "157a67deb" }	200 OK  Play count should be increased in the postman response body and actual database storage (MySQL)	200 OK  Play count is increased in the both postman response body and actual database storage (MySQL)	<b>PASS</b>
KL 2	Verify incorrect request method returns proper error message and status code	GET api/interaction/play	Bearer token	{ "songID": "157a67deb" }	405 Method Not Allowed  Response message: "The GET method is not supported for this route. Supported methods: POST."	405 Method Not Allowed  Response message: "The GET method is not supported for this route. Supported methods: POST."	<b>PASS</b>
KL 3	Verify a valid Authorization token is required for a successful request	POST api/interaction/play	Bearer valid_token	{ "songID": "157a67deb" }	200 OK  Play Count should be increased	200 OK  Play Count is increased	<b>PASS</b>
KL 4	Verify missing Authorization token returns proper error message and status code	POST api/interaction/play	No token provided	{ "songID": "157a67deb" }	401 Unauthorized  Response message: "Authorization required. Please provide a valid Bearer token."	401 Unauthorized  Response message: "Authorization required. Please provide a valid Bearer token."	<b>PASS</b>
KL 5	Verify invalid Authorization token returns proper error message and status code	POST api/interaction/play	Bearer invalid_token	{ "songID": "157a67deb" }	401 Unauthorized  Response message: "Authorization required. Please provide a valid Bearer token."	401 Unauthorized  Response message: "Authorization required. Please provide a valid Bearer token."	<b>PASS</b>

KL 6	Verify correct payload returns status code 200 OK and 'Increased Play Count'	POST api/interaction/play	Bearer token	{ "songID": "157a67deb" }	200 OK  Response message: "Increased Play Count"	200 OK  Response message: "Increased Play Count"	<b>PASS</b>
KL 7	Verify missing SONG ID in payload returns proper error message and status code	POST api/interaction/play	Bearer token	{ }	422 Unprocessable Content  Response message: "The given data was invalid."	422 Unprocessable Content  Response message: "The given data was invalid."	<b>PASS</b>
KL 8	Verify "404" status code when the requested song doesn't exist	POST api/interaction/play	Bearer token	{ "songID": "7p42c5" }	404 Not Found	500 Internal Server Error	<b>FAIL</b>
KL 9	Verify error message "Requested song doesn't exist" when the requested song doesn't exist	POST api/interaction/play	Bearer token	{ "songID": "7p42c5" }	Response message: "Requested song doesn't exist."	Since KL8 has failed, the verification of KL9 is not confirmed at this time.	<b>BLOCKED</b>
KL 10	Verify error message and status code with an incorrect format of payload	POST api/interaction/play	Bearer token	{ "id": "12345" }	400 Bad Request  Response message: "Invalid payload format. Please provide a payload with the 'songID' field."	400 Bad Request  Response message: "Invalid payload format. Please provide a payload with the 'songID' field."	<b>PASS</b>

## Fail and Blocked

KL8: This test case aims to verify the "404" status code when the requested song doesn't exist. However, the actual response returns a "500 Internal Server Error" instead of the expected "404 Not Found" status code. The test fails. A bug report has been generated and is attached to this report.

KL9: As KL8 fails to meet the expected result, this test case, which verifies the error message for a non-existent song, is currently blocked. The verification of KL9 is pending resolution of the issue identified in KL8.

A Screenshot of the Bug Report

Jira Software

Dashboardsv

Projectsv

Issuesv

Boardsv

Testsv

Create

Search

boardv

Backlog

Active sprints

Releases

Reports

Issues

Components

Tests

Test Automation

YJ | API: Increase Play Count | Incorrect payload(Song ID) does not return '404 Not Found' status code

Edit

Comment

Assign

Morev

To Do

Done

Workflowv

Details

Type: Bug

Priority: Medium

Labels: IncorrectSongID, IncreasePlayCount, KL\_API\_TEST, Sprint8

Status: TO DO (View Workflow)

Resolution: Unresolved

Description

Steps to reproduce:

1. Select the POST method and Request the URI ({{{baseUrl}}}api/interaction/play)

2. Select the Authorization as 'Bearer Token'

3. Click on 'Body' Tab and Type the value (Key: "song", Value: "7p42c5")

4. Click on 'Send' button

Expected result:

Code Status '404 Not found' should be returned with 'Incorrect Song ID'

Actual result:

Code Status: '500 Internal Server Error' is returned

Attachments

People

Assignee:

Reporter:

Votes:

Watchers:

Dates

Created:

Updated:

Agile

View on Board

The attached Image file in the Bug Report

