Test Report and Coverage Document

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Test coverage and analysis report:

Objective: To validate the functionality of the /users,/posts and /comments endpoints with focus on

- > Searching for a user by username.
- > Fetching posts and comments associated with the user.
- > Validating the format of emails in comments

Executive Summary:

S.NO	Test description	Status	Remarks
	Searching for the user		
1	"Delphine"	Passed	User available
	Fetch posts for the user		
2	"Delphine"	Passed	Posts available
3	Validate comments for posts	Passed	Comments available
			There are emails in invalid
			format:
			Invalid email addresses found:
			Lucio@gladys.tv
			Shemar@ewell.name
			Jackeline@eva.tv
			Marianna_Wilkinson@rupert.io
4	Validate email formats	Failed	Marcia@name.biz
	Searching for the user		
5	"Elwyn.Skiles"	Passed	User available
	Fetch posts for the user		
6	"Elwyn.Skiles"	Passed	Posts available
7	Validate comments for posts	Passed	Comments available
			There are emails in invalid
			format:
			Invalid email addresses found:
			Buford@shaylee.biz
			Maria@laurel.name
			Jaeden.Towne@arlene.tv
			Ethelyn.Schneider@emelia.co.uk
8	Validate email formats	Failed	Georgianna@florence.io
	Searching for the user		
9	"Natarajan"	Failed	User available
10	Searching for the user "NULL"	Failed	Posts available

Defects:

S.NO	Defect description	Remarks
	Invalid email format in	
1	comment(eg.,Maria@laurel.name)	Email validation bug

Test Scenarios and Coverage:

- > Search for Username "Delphine"
 - Search for a valid username ("Delphine").
 - Expected Result: User details for "Delphine" should be returned with status code 200.
 - Search for an invalid username (e.g., "NotExist").
 - Expected Result: API returns an empty array or appropriate error message, with status code 404 or 200 (with empty data).
- > Fetch Posts for User "Delphine"
 - Fetch posts for "Delphine" if posts are available.
 - Expected Result: List of posts should be returned with status code 200.
- > Fetch Comments for Each Post
 - Fetch comments for a post.
 - Expected Result: A list of comments should be returned with status code 200.
- > Validate Email Format in Comments
 - Validate valid email format in comments (e.g., test@gmail.com).
 - Expected Result: Ensure all emails in the comments section conform to a valid email format.

Test Data:

• Valid Username: Delphine, Elwyn.Skiles

• Invalid Username: Natarajan, NULL

Test execution report:

Cucumber execution report :

*Failures in the reports are intentionally induced and it is scenario and test data based.

Overall execution summary:

2 FAILED		3 PASSED
60% passed 5 executed	22 seconds ago last run	4.21 seconds duration
Mac OS X	Java HotSpot(TM) 64-Bit Server VM 11.0.16+11-LTS-199	cucumber-jvm 7.20.1
Q Search with text or @tags You can search with plain text or <u>Cucumber Tag Expressions</u> to filter the output		▼ ✓ failed ✓ passed

Scenario based execution summary:

✓ ☑ file:///Users/natarajankanakasabapathy/RABIT/SurepayAssessment/src/test/resources/features/Jsonplaceholder.feature

@SurepayTesting

Feature: Verification of user and respective posts

As an API consumer I want to retrieve posts written by specific users So that I can analyze their content

Background:

Given the JSONPlaceholder API is available

@FunctionalTesting @IntegrationTesting

Scenario Outline: Verify posts written by Delphine

- When I search for user with username "<Username>"
- Then the user should be found in the system
- And validate the emailID of the user "<email>"
- When I retrieve all posts written by the user
- O Then there should be posts available
- And each post should have valid title and body
- And retrieve comments for each post
- Then validate email in each comment section

Examples:

	Username	email
0	Delphine	Chaim_McDermott@dana.io
0	Elwyn.Skiles	Telly.Hoeger@billy.biz
8	Natarajan	Rey.Padberg@karina.biz
8	NULL	Null@test.com

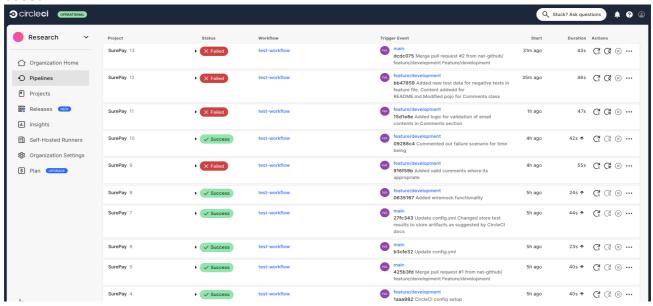
@UsersPostsTesting @SmokeTesting

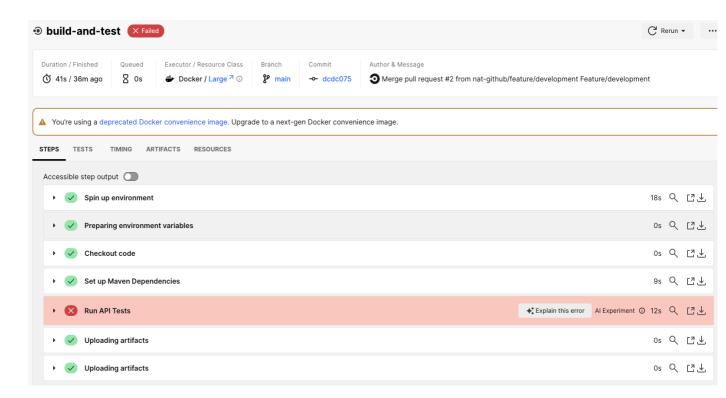
Scenario: Validate post structure

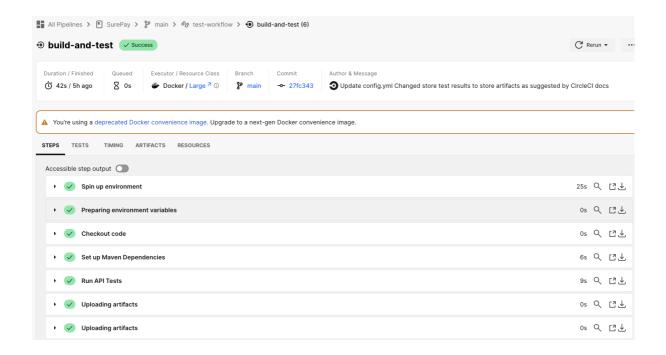
- When I search for user with username "Delphine"
- And I retrieve all posts written by the user
- Then each post should have required fields
- And no. of posts should be greater than 0

CIRCLE CI execution report:

*Failures in the reports are intentionally induced and it is scenario and test data based.







Conclusion:

This test coverage and execution report outlines the API testing approach, test cases, and scenarios to ensure the correct functionality and robustness of the <u>jsonplaceholder.typicode.com</u> API, specifically for fetching the user "Delphine" and validating the comments' email format