

Quality Management Plan

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Summary

The quality management plan will cover the basic functionality of the json api in JSONPlaceholder. This document will contain the necessary information about the test coverage.

Test Plan

Test Scope

There are 6 routes in the JSONPlaceholder api. But for this test plan it will cover only the Get routes. Test scenarios were created covering all 5 routes.

1. /user - This route will return all the users registered in the platform
2. /posts - This route will return all the posts contained by the registered users
3. /comments - This route will return all the comments posted by the registered users
4. /albums - This route will return all the albums uploaded by the registered users
5. /photos - This route will return all the photos

Test Scenarios

- Verify user details for given user
- Verify posts created by the registered user
- Verify user comments
- Verify user email format
- Verify user created photo albums
- Verify user uploaded photos
- Verify photo url are broken

Test Automation

Tools

Following tools and plugins were used when creating the automated tests

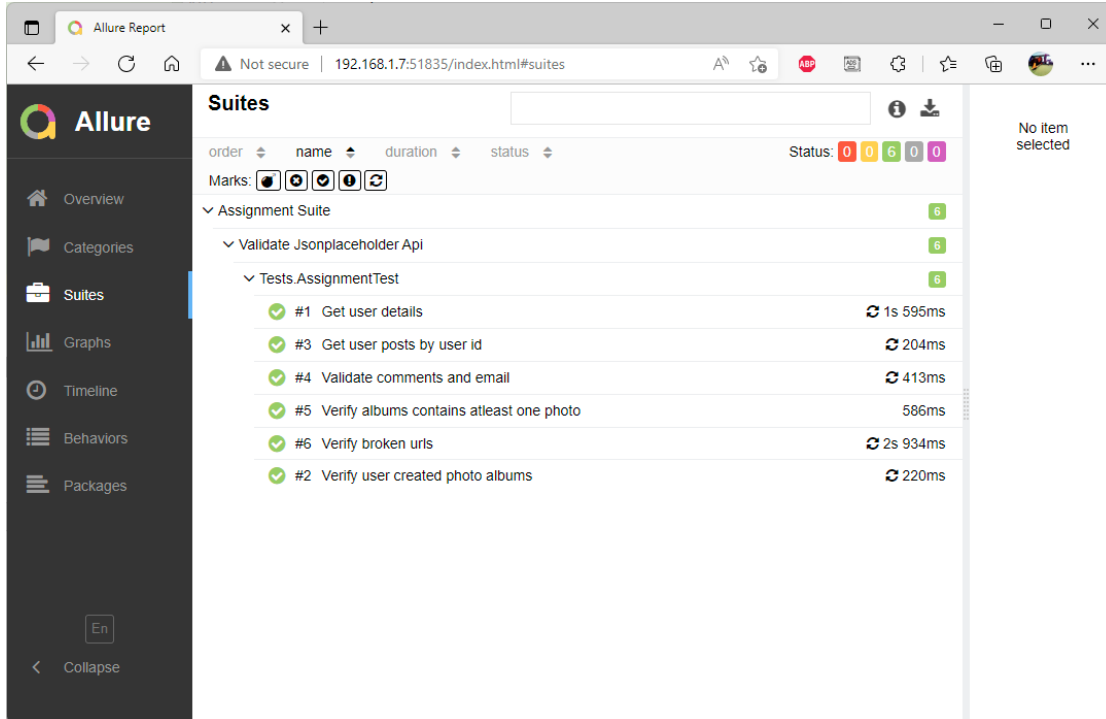
Tool / Plugin	Version
TestNg	7.4
Rest Assured	5.0
Java	17.0.2
Apache Commons	1.7
Json	20220320
Allure Reports	2.17.2

Automation script

TestNg script is loaded in testSuits folder. All the scenarios were included in the Assingment.xml script. The Assignment script contains 6 test methods covering all the above mentioned test scenarios.

Test Results

Following test results were generated for above mentioned test scenarios.



The screenshot displays the Allure Report interface in a web browser. The left sidebar contains navigation links: Overview, Categories, Suites (selected), Graphs, Timeline, Behaviors, and Packages. The main content area is titled 'Suites' and shows a hierarchical view of test results. The 'Assignment Suite' is expanded, revealing the 'Validate.Jsonplaceholder Api' suite, which in turn contains the 'Tests.AssignmentTest' suite. This test suite lists six individual test cases, all of which passed (indicated by green checkmarks). The test cases are: #1 Get user details (1s 595ms), #3 Get user posts by user id (204ms), #4 Validate comments and email (413ms), #5 Verify albums contains atleast one photo (586ms), #6 Verify broken urls (2s 934ms), and #2 Verify user created photo albums (220ms). The status bar at the top right indicates 0 failures, 0 errors, 6 passed, 0 skipped, and 0 pending. A 'No item selected' message is visible on the right side of the report.

order	name	duration	status
Status: 0 0 6 0 0			
Marks: [Icons]			
✓ Assignment Suite 6			
✓ Validate.Jsonplaceholder Api 6			
✓ Tests.AssignmentTest 6			
✓ #1	Get user details	1s 595ms	
✓ #3	Get user posts by user id	204ms	
✓ #4	Validate comments and email	413ms	
✓ #5	Verify albums contains atleast one photo	586ms	
✓ #6	Verify broken urls	2s 934ms	
✓ #2	Verify user created photo albums	220ms	

Defects

1. When the request type is not supported it should return with 405 (method not allowed) response code instead api will return 404