iTunes Search API Automation Test Plan

1. Introduction

1.1 Purpose

The purpose of this automated test plan is to ensure the functionality, reliability of the iTunes Search API through automated testing.

1.2 Scope

This automated test plan covers the automation of test scenarios related to the iTunes Search API, focusing on search functionality, response accuracy.

1.3 Objectives

- Automate the verification of the iTunes Search API for accuracy and relevance of results.
- Implement automated tests for handling various input scenarios gracefully.

2. Test Environment

2.1 Automation Techstack

- RestAssured, Java, TestNG, Maven

2.2 Dependencies

- Identify and document any dependencies required for the automation scripts to run successfully

3. Automated Test Scenarios

3.1 Search Functionality

3.1.1 Positive Scenarios

- Automate tests to verify that the API returns expected results for various valid search queries.
- Include automated tests for search queries with spaces, special characters, and multiple parameters.

3.1.2 Negative Scenarios

- Develop automated tests to verify the API's response to invalid search queries.
- Implement automated tests to ensure the API provides appropriate error messages for invalid input.

3.2 Response Accuracy

3.2.1 Check Response Fields

- Develop automated tests to verify the presence of all expected fields in the API response.
- Automate tests to confirm the accuracy of data in each response field.

4. Test Data

4.1 Test Data Preparation

- Setup test data for positive and negative test data for search queries.

- Consider data-driven testing approaches to cover a wide range of scenarios.

5. Test Execution

5.1 Automated Test Procedures

- Define step-by-step procedures for executing each automated test scenario.

6. Automated Test Deliverables

- Document and report automated test results, including any issues encountered.

7. References

1.https://developer.apple.com/library/archive/documentation/AudioVideo/Conceptual/iTuneSearchAPI/index.html#//apple_ref/doc/uid/TP40017632-CH3-SW1

8. Authors

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