Test Plan for the documented iTunes Search API

1. Introduction

The Search API allows you to place search fields in your website to search for content within the iTunes Store, App Store, iBooks Store and Mac App Store. You can search for a variety of content; including apps, iBooks, movies, podcasts, music, music videos, audiobooks, and TV shows.

1. Product and Feature Overview

A fully-qualified URL to search must have the following format:

https://itunes.apple.com/search?parameterkeyvalue

Where parameterkeyvalue can be one or more parameter key and value pairs indicating the details of your query.

To construct a parameter key and value pair, you must concatenate each parameter key with an equal sign (=) and a value string. For example: key1=value1. To create a string of parameter key and value pairs, you must concatenate each pair using an ampersand (&). For example:

key1=value1&key2=value2&key3=value3

**Parameters**

|  |  |  |  |
| --- | --- | --- | --- |
| **Parameter Key** | **Description** | **Required** | **Values** |
| term | The URL-encoded text string you want to search for. | Y | Any URL-encoded text string. Note: URL encoding replaces spaces with the plus (+) character and all characters except the following are encoded: letters, numbers, periods (.), dashes (-), underscores (\_), and asterisks (\*). |
|  |
| For example : 'jack+johnson' |
| country | The two-letter country code for the store you want to search. The search uses the default store front for the specified country. | N | [See http://en.wikipedia.org/wiki/ISO\_3166-1\_alpha-2 for a list of ISO Country Codes.](http://en.wikipedia.org/wiki/ISO_3166-1_alpha-2) |
|  |
| For example : 'US' |
| The default is 'US' |
| media | The media type you want to search for. | N | movie, podcast, music, musicVideo, audiobook, shortFilm, tvShow, software, ebook, all |
|  |
| For example : 'movie' |
| The default is 'all' |
| limit | The number of search results you want the iTunes Store to return. | N | 1 to 200 |
|  |
| For example : 25 |
| The default is 50 |

1. **Reference Documents**

https://github.com/iappsqainterview/searchAPI/blob/master/API.md

1. **Dependencies and Open Issues**
2. **New ARTS APIs for IPOS CLI commands**

https://itunes.apple.com/search?parameterkeyvalue

1. **Test Exit Criteria**
   * All test cases completed with 95% or higher pass rate
   * All Pending-Fixed TRs explicitly re-test and close off with severity of 2 and 1
   * CPI documentations verified
2. **Test Case Specification**
   1. **Test Area 1: Simple search criteria**
      1. **Functional Test TC1.1 - API search Criteria for Term**

**Test Case Name**: - Verify the Search criteria for "term" criteria

**Description:** Verify the Search criteria for "term" criteria

**Test Case Requirement**: TBD

**CVS Version**: 1.0

**Category**: Feature

**Debug Commands**: none

**Type**: Functional

**Priority**: High

**Automation**: yes

**Test Procedure**:

1. Call API with Key value pair as "term=<name>"

**Pass Criteria**:

1. Resultset provides more than one result
   * 1. **Functional Test TC1.1 - API search Criteria for** country

**Test Case Name**: - Verify the Search criteria for " country" criteria

**Description:** Verify the Search criteria for " country" criteria

**Test Case Requirement**: TBD

**CVS Version**: 1.0

**Category**: Feature

**Debug Commands**: none

**Type**: Functional

**Priority**: High

**Automation**: yes

**Test Procedure**:

1. Call API with Key value pair as " country=<name>"

**Pass Criteria**:

1. Resultset provides more than one result

* + 1. **Functional Test TC1.1 - API search Criteria for media**

**Test Case Name**: - Verify the Search criteria for " media " criteria

**Description:** Verify the Search criteria for " media " criteria

**Test Case Requirement**: TBD

**CVS Version**: 1.0

**Category**: Feature

**Debug Commands**: none

**Type**: Functional

**Priority**: High

**Automation**: yes

**Test Procedure**:

1. Call API with Key value pair as " media =<name>"

**Pass Criteria**:

1. Resultset provides more than one result

* + 1. **Functional Test TC1.1 - API search Criteria for** limit

**Test Case Name**: - Verify the Search criteria for " limit " criteria

**Description:** Verify the Search criteria for " limit " criteria

**Test Case Requirement**: TBD

**CVS Version**: 1.0

**Category**: Feature

**Debug Commands**: none

**Type**: Functional

**Priority**: High

**Automation**: yes

**Test Procedure**:

1. Call API with Key value pair as " country=<name>"

**Pass Criteria**:

1. Resultset provides more than one result

* 1. **Test Area 2: Negative test Criteria** 
     1. **Functional Test TC1.1 - API search Criteria that is not supported**

**Test Case Name: - Verify the Search criteria for not supported criteria**

**Description: Verify the Search criteria for " not supported " criteria**

**Test Case Requirement: TBD**

**CVS Version: 1.0**

**Category: Feature**

**Debug Commands: none**

**Type: Functional**

**Priority: High**

**Automation: yes**

**Test Procedure:**

**1. Call API with Key value pair as " <not supported>=<name>"**

**Pass Criteria:**

**1. Resultset does not provides results**