**Test Plan For Search API**

1. **Postive Test Cases:**

**For the following test cases, we need to inject all valid data for term, country, media and limit respective:**

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| **Test Case ID** | **Test Case Summary** |
| **1** | Verify request with only key “term” in parameter list. “term” has valid URL-encoded text string as value. e.g. <https://itunes.apple.com/search>?term='jack+johnson' |
| 2. | Verify request with valid “term” and “country” in parameter list. e.g. <https://itunes.apple.com/search>?term= 'jack+johnson'&country=’US’ |
| 3. | Verify request with valid “term” and “media” in parameter list. e.g. <https://itunes.apple.com/search>?term= 'jack+johnson'&media=’movie’ |
| 4. | Verify request with valid “term” and “limit” in parameter list. e.g. <https://itunes.apple.com/search>?term= 'jack+johnson'&limit=25 |
| 5 | Verify request with valid “term”, “country”, “media” in parameter list. e.g. <https://itunes.apple.com/search>?term= 'jack+johnson'&country=’US’&media=’movie’ |
| 6. | Verify request with valid “term”, “country”, “limit” “ in parameter list. e.g. <https://itunes.apple.com/search>?term= 'jack+johnson'&country=’US’&limit=1 |
| 7. | Verify request with valid “term”, “country”, “media”, “limit” “ in parameter list. e.g. <https://itunes.apple.com/search>?term= 'jack+johnson'&country=’US’&modia=’movie’&limit=10 |
| 8. | Verify default values for country, media and limit.  Country default value is ‘US’.  Media default value is ‘all’  limit default value is 50 |

1. **Negative Test Cases:**

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| **Test Case ID** | **Test Case Summary** |
| **1** | No “term” key in parameter list. (“term” is required field in this API) . e.g. <https://itunes.apple.com/search>? country=’US’ |
| **2.** | Empty string for “term” key in parameter list.  <https://itunes.apple.com/search>?term=&country=’US’ |
| **3.** | Enter metacharacters (e.g. $#@%^&\*()=+){|”>} as value for **term**. <https://itunes.apple.com/search>?term=’%$jonson’&country=’US’ |
| **4.** | Enter invalid values for country ( for example: enter country as “foobar” or empty String or is not a valid country code)  <https://itunes.apple.com/search>?term= 'jack+johnson'&country=’foobar’ |
| **5.** | Enter invalid values for media.  The valid values for media are the following –  movie, podcast, music, musicVideo, audiobook, shortFilm, tvShow, software, ebook, all  e.g.  <https://itunes.apple.com/search>?term= 'jack+johnson'&country=’US’&media=’foobar’ |
| **6.** | Enter invalid values for limit.  The valid values for limit is 1-200.  e.g.  <https://itunes.apple.com/search>?term= 'jack+johnson'&country=’US’&media=’movie’&limit=0 |