Test Plan: Sportsbook Search Functionality - SportingBull

# 1. Introduction

This test plan outlines the testing strategy and scope for the search functionality of the Sportsbook section on the SportingBull website (https://en.sportingbull.com/). The objective is to ensure the search bar behaves correctly in all expected and edge-case scenarios.

# 2. Scope

The scope of this test plan includes the verification and validation of the search functionality in the Sportsbook section. This plan covers the following:

* Functional validation of search inputs and results.
* Edge and negative scenarios to test robustness.
* Usability and accessibility of the search bar and dropdown.
* Performance underload and concurrent access.
* Security validations such as SQL injection prevention.

# 3. Out of Scope

Other site areas such as registration, betting mechanics, account management, and non-search related features are out of scope for this test.

# 4. Test Objectives

* Ensure accurate and relevant results for valid queries.
* Verify predictive text and auto-suggestions work correctly.
* Validate search behavior with edge cases and invalid inputs.
* Assess multilingual and character encoding support.
* Test UI behavior like dropdown closing and ESC key functionality.
* Validate system performance and security against malicious input.

# 5. Test Data

Inputs will include:

* - Valid sports/team names.
* Gibberish or random characters.
* Partial and misspelled words.
* non-Latin and accented characters.
* Very long strings and symbols.

# 6. Defect Management

Defects will be tracked by the following severity levels:

* Critical: System crash or major feature failure
* High: Incorrect search output or logic
* Medium: Layout or usability bug
* Low: Cosmetic/UI enhancement  
     
  Workflow: Log → Review → Fix → Re-test → Close

# 7. Tools & Frameworks

* Selenium WebDriver (Java)
* Cucumber (BDD)
* Maven
* JUnit/TestNG

# 8. Test Environment

* Browser: Chrome
* OS: Windows/macOS
* Base URL: <https://en.sportingbull.com/>

# 9. Test Scenarios

* TC001: Verify that a valid query returns appropriate results.
* TC002: Verify that the search is case-insensitive (e.g., "Juventus" vs "juventus).
* TC003: Verify that search results update dynamically as each character is typed.
* TC004: Verify that autosuggestions appear for partial input (e.g."Man" suggests "Manchester United").
* TC005: Verify that search results are sorted and ranked based on relevance or popularity.
* TC006: Verify that previously searched terms appear again when revisiting the search.
* TC007: Verify that inputs with leading or trailing spaces are trimmed and still return correct results.
* TC008: Verify that special characters (e.g., "@", "#", "!") do not break the search functionality.
* TC009: Verify that numeric queries (e.g., "2025") return relevant results or are handled appropriately.
* TC010: Verify that long queries are processed without UI or performance issues.
* TC011: Verify that gibberish input (e.g., "asdkjfh") returns a "No results found" message.
* TC012: Verify that misspelled inputs show corrected suggestions or handle fuzzy matching.
* TC013: Verify that irrelevant search terms do not return unrelated results.
* TC014: Verify that mixed character and symbol inputs (e.g., "L!verp00l") are handled appropriately.
* TC015: Verify that non-Latin character input is processed correctly.
* TC016: Verify that transliterated input (e.g., "Reyal Madrid") provides matching results or suggestions.
* TC017: Verify that inputs with diacritics (e.g., "São Paulo") return expected results.
* TC018: Verify that the search responds quickly and meets performance expectations.
* TC019: Verify that the system remains stable when multiple users perform searches simultaneously.
* TC020: Verify that SQL injection attempts in the search field are blocked or neutralized.
* TC021: Verify that unauthorized or restricted data cannot be accessed through the search bar.
* TC022: Verify that pressing the ESC key closes the search dropdown.
* TC023: Verify that clicking the "Close" button closes the search bar.
* TC024: Verify that clicking outside the search area closes the dropdown.
* TC025: Verify that refreshing the page clears the search input field.
* TC026: Verify that no dropdown appears when the input is empty.
* TC027: Verify that quickly typing a query executes the search without issues.
* TC028: Verify that the search UI is responsive and functions correctly on mobile devices.
* TC029: Verify that users can navigate suggestions using the keyboard (e.g., Tab, Enter, ESC, Up, Down).