| Objective | Test case | Expected Result |
| --- | --- | --- |
| To verify that the search functionality works correctly. | To perform a search using a query that will output a result that can be expected. | Returns relevant results |
| To verify that the search functionality can handle “no results” properly | Perform a search using a query that should return no results | The search returns a “no results found” message. |
| Ensure that the search handles invalid input correctly | Enter an invalid or empty search input | The program should correctly handle the query and display the correct error |
| To verify that the search can handle special characters in the query | Enter a query with special characters | The search should either return a relevant result or return a “No results found” message in the case of no results |
| To determine if the search functionality is case-sensitive | Perform search queries with both upper and lower cases and compare the results | This result will determine whether the search functionality is case-sensitive or not. |
| To evaluate the performance of the search functionality | Measure the response time for searches with a large number of expected results | The search should run in a short enough time frame. |
| To confirm good integration with the IDE | Use the plugin in the IDE to perform a search and see if the results display correctly in the IDE. | The ID displays results as intended. |
| To verify that the search supports multiple programming languages | Perform searches for terms specific to different programming languages supported by the IDE. | The search should return language-specific results correctly. |
| To verify that concurrent searches do not affect the functionality. | Perform multiple searches at the same time. | All searches should be completed correctly. |
| Test the boundary conditions of the search input. | If there is a limit to the search query length, test just below, at, and above this limit. | The program should handle the boundary conditions successfully. |