Test Plan

Product: rocketjumpninja

Feature : Search Mouse By Parameters

General

The Test Plan is designed to prescribe the scope, approach, resources, and schedule of all testing activities of the project rocketjumpninja. The plan identify the items to be tested, the features to be tested, the types of testing to be performed.

About Product

The rocketjumpninja.com site provides functionality to search computer mouses by person requirements and lead to the sites where the mouse can be bought – amazon.com and mwave.com.au .

Scope

This test plan is focused on testing of search mouse feature on the site including UI/UX, search results data corrrectness, data consistency with other site pages data. It will cover rest API testing. The scope is mainly functional testing. Load and performance testing is out of scope of this test plan.

Security testing is not relevant for this product.

Test Approach

Since there is no knowledge of the application design the testing will be based only on UI presented data – there is no access to database and there is no possibility to verify search results versus sql search queries on mise database.

Should be checked UI/UX, consustency of data on application pages, load time of pages, work with many clients, work in different browsers, responsiveness of site on different devices.

There are three logical components to be tested :

search engine rest request result data correctness

correctness of hand size to mouse size conversion (the algorithm is unknown)

UI presentation of rest request result.

Standard UI behaviour like moving between pages, focus on UI elements, etc... should be tested as well.

Test Environment

Computer with installed browsers – chrome at least and access to the internet. Chrome driver, java, maven should be installed for automation tests execution.

Testing Categories With Examples Of Test Cases

UI/UX

- Default presentation of the search form by UI design, all sections appears, correct default values in all sections. Results table appears with 'No results' text.
- Input text boxes can be reached with tab key, 'search' button gets focus when all parameters inserted.
- In hand size text boxes and number of buttons impossible to enter not relevant data.
- <Enter> key submits search form.
- Reload page doesn't change UI presentation.

Data Correctness

- Enter valid data into search mouse form – hand lengt, width should be in valid range, exist in all mouse data (from all mice page). Click on 'Search button. ' See that results table contains the relevant list of mice with mouse parameters that match input search parameters. The test should be data driven, should be tested with all set of values of grip type, leniency, shape, wireless and lefthanded filters for both measurement types – cm and inches, different valid hand length and width values. Test data set should be added further. The test case should be automated.
- Enter invalid data into search mouse form – hand length, width, number of buttons fields :
  - ➢ negative values for hand length and width – one of them and both of them. Verify that alerts appear with relevan messages
  - ➢ Mix of letters, special symbols and digits – one of the and both of them. Verify that alerts appear with relevan messages
  - ➢ very large numbers. Verify that alerts appear with relevan messages.
  - ➢ Zeros. Verify that alerts appear with relevan messages
  - ➢ empty fields. Verify that alerts appear with relevan messages
  - ➢ values greater or less than existing values in all mice data: expected: No results in results table.

- Integrating automated tests into continuous integration pipelines using Jenkins.
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Rest Get Request

Data Correctness
- Verify results from the REST request with the same data sets as it is

defined in Data Correctness section for UI. The same testcases should be performed.

Hans Size To Mouse Size Conversion Module

- Check that results appears with mouse length, width accordigly to hand length, width conversion has been gotten from json results object of teh serach rest get request.

Data Consistency

- When the table results had been gotten click on 'Link' cell and see that the relevant mouse details page appeared. Check mouse data is consistent with the data in results table on search-mouse page.
- Press back button on browser. See that results data on the search-mouse page hasn't been cleared.
- Check that mouse details in the result table on search-mouse page can be found on 'all mice' page.

Many Clients   All test cases from the previous sections should be performed for several open browsers, tabs, computers.

Cross browsing tests   The feature should be tested in different browsers – chrome, edge, safari.

Responsiveness   See that the search form and results can be seen and work properly on tablets and phone devices.

More detailed test cases design should be added to testcases repository.