Google Home Page and Search Result Page Sample Test Cases

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1. Test Cases Examples.

Example test cases written in BDD style with Cucumber BDD framework features (e.g. Scenario Outline with examples (or data tables), which can be used as data-driven test cases. Scenario will be performed numbers of time witch different data for each example. For more information please refer to BDD and Cucumber docs).

List of exemplary test cases for chosen checks:
    Functional tests:
        - verifying that links from top-right menu works and redirects user to correct sites
            Example test case:
            Scenario: 'Sign in' link redirects to Accounts page

Given	*I open browser*
And	*I navigate to Google Home Page*
When	*I click 'Sign in' button*
Then	*I should be redirected to Accounts*

        - verifying that links from footer works and redirects user to correct site
            Example test case:
            Scenario: Google Home Page Footer contains correct links

Given	*I open browser*
And	*I navigate to Google Home Page*
When	*I'm Google Home Page*
Then	*I should see correct Footer links*

                | Advertising |
                | Business |
                | About |
                | How Search works |

        - verifying that 'I'm Feeling Lucky' button works and redirects user to correct site
            Example test case:
            Scenario: 'I'm Feeling Lucky' button redirects to Doodles Page

Given	*I open browser*
And	*I navigate to Google Home Page*
When	*I click 'I'm Feeling Lucky' button*
Then	*I should be redirected to Doodles Page*

        - verifying that search engine request get hit by clicking on 'Google Search' button or Enter button after entering the search item in search box
            Example test case:
            Scenario: 'Google Search' button redirects to 'Google Search Result' Page

Given	*I'm on Google Home Page*
When	*I enter text 'test' into search box*
And	*I click 'Google Search' button*
Then	*I should be redirected to Google Search Result Page*

        - verifying that Google Search Result Page contains correct bookmarks
            Example test case:
            Scenario: Google Search Result Page bookmarks bar contains correct bookmarks

Given	*I open browser*
And	*I navigate to Google Home Page*
And	*I enter text 'test' into search box*
And	*I click 'Google Search' button*
When	*I'm on Google Search Result Page*
Then	*I should see correct bookmarks*

                | All |
                | Images |

| News |
| Videos |
| Maps |

- verifying that clicking Search Result Page bookmarks redirects to correct result view

Example test case:

Scenario: Clicking 'Images' bookmark on Google Search Result Page changes result view from all to images

Given   I open browser
And   I navigate to Google Home Page
And   I enter text 'test' into search box
And   I click 'Google Search' button
And   I'm on Google Search Result Page
And   I should see correct search result for 'test'
When   I click 'Images' bookmark
Then   I should see images search result for 'test'

- verifying that the response search results fetched for a particular keyword is correct and related to the keyword

Example test case for Google Home Page Search:

Scenario Outline: Correct search results are displayed on Google Search Result Page for searched keyword <keyword> from Google Home Page

Given   I open browser
And   I navigate to Google Home Page
When   I enter text <keyword> into search box
And   I click 'Google Search' button
Then   I should be redirected to Google Search Result Page
And   I should see search result for keyword <keyword>
Examples:
| keyword |
| test |
| search |
| test search |
| 1234 |

Example test case for Google Search Result Page Search (top menu):

Scenario Outline: Correct search results are displayed on Google Search Result Page for searched keyword <keyword> from Google Search Result Page

Given   I open browser
And   I navigate to Google Home Page
And   I enter text 'test' into search box
And   I click 'Google Search' button
And   I should be redirected to Google Search Result Page
When   I enter text <keyword> into search box on Search Result Page
And   I click 'Magnifier' button
Then   I should see search result for keyword <keyword>
Examples:
| keyword |
| test |
| search |
| test search |
| 1234 |

- verifying that incorrect keywords - keywords not having related result should lead to "did not match any documents" response

Example test case:

Scenario Outline: 'Your search did not match any documents' message is displayed on Search Result Page for keyword <keyword>

Given   I open browser
And   I navigate to Google Home Page

When   I enter text <keyword> into search box
And   I click 'Google Search' button
Then   I should be redirected to Google Search Result Page
And   I should see message 'Your search - <keyword> - did not match any documents'
Examples:
| keyword |
| .... |
| ========== |

Non-functional tests:
  - verifying that all graphical elements are present and correctly placed
    Example test case:
    Scenario: Verify that 'Google' logo is present and correctly placed on 'Google Home Page'
      Given   I open browser
      When   I navigate to 'Google Home Page'
      Then   I should see 'Google' logo is present and correctly placed
  - verifying 'GHP' and 'GSRP' on different browsers
    Example test case:
    Scenario Outline: Verify 'Google Home Page' is displayed correctly in browser <browser>
      When   I open <browser>
      And   I navigate to 'Google Home Page'
      Then   I should see 'Google Home Page' correctly displayed
    Examples:
    | browser |
    | chrome |
    | IE |...
          Similar scenario can be used for 'Google Search Result Page'
  - verifying 'GHP ' and 'GSRP' user interface on different devices
    Example test case:
    Scenario Outline: Verify 'Google Home Page' is displayed correctly on device <device>
      When   I open browser on <device>
      And   I navigate to 'Google Home Page'
      Then   I should see 'Google Home Page' correctly displayed
    Examples:
    | device |
    | iPhone5 |
    | SamsungXYZ |...
          Similar scenario can be used for 'Google Search Result Page'
  - verifying 'GHP' and 'GSRP' user interface on different resolutions (for the web application resolutions can be also covered with different devices)
  - verifying 'GHP' and 'GSRP' on different localization settings
    Example test case:
    Scenario: Verify 'Google Home Page' language is set based on localization
      Given   I open browser
      And   I have localization setting set to Poland
      When   I navigate to 'Google Home Page'
      Then   I should see 'Google Home Page' displayed in polish language

+ some more non-functional testing. In this case when we do not have non-functional specification it probably won't be tested, but some examples of how it looks when requirements are there are listed below
  - verifying 'GHP' and 'GSRP' load time
    Example test case:
    Scenario: Verify 'Google Home Page' load time in less than 1000ms
      Given   I open browser
      When   I navigate to 'Google Home Page'

Then   I should see 'Google Home Page' load in less than 1000ms
*Similar scenario can be used for 'Google Search Result Page'

- verifying 'GSRP' search result engine response time

Example test case:

Scenario: Verify 'Search engine' response time in less than 1000ms

Given   I open browser
And   I navigate to 'Google Home Page'
When   I enter 'test search' in Search TextField
And   I click 'Google Search'
Then   I should see 'Google Search Result Page' with results load in less than 1000ms

- verifying 'GHP' and 'GSRP' under stress

Example test case:

Scenario Outline: Verify 'Google Home Page' with <numberOfUsers> users at the time will load in less than <responseTime> ms

Given   <numberOfUsers> browser instances are prepared
When   <numberOfUsers> users navigate to 'Google Home Page' at the same time
Then   I should see 'Google Home Page' load in less than <responseTime> ms

Examples:

numberOfUsers	*responseTime*
10000	*10000*
100000	*20000*

*Similar scenario can be used for 'Google Search Result Page'

- all other kinds of non-functional tests