**Springer Nature Test Tasks**

**Task 1 Search Function**

Initial Actions

* Load the site Chrome
* Familiarise with business of Springer Nature business and processes
* Familiarise with processes within the site
* Loaded on both the Desktop and mobile sites
* Look and feel
* Loaded into Firefox to view code for the desktop
* Loaded into Chrome to try and view the mobile view in the F12 view.

In Scope

* Search types
* Search results
* Pagination
* Happy path / edge cases / corner cases
* Integration between search and non-search functionality
* Non-functional aspects of searching
  + Response times for a single user
  + Look and feel

Out of Scope

* Load testing
* Security testing

Environments

* Each test executed on both the desktop and mobile instances
* Exploratory test mainly on the Chrome browser (desktop) and Safari (mobile)

Why

* To expose knowledge of testing techniques and general approach
* Identify high risk areas and test design

Test Cases

* Test cases can be found in Springer Nature Tests.xlsx

**Task 2 Fastly**

Assumptions

* Messaging between components highest risk
* Wherever possible industry standard toolsets will be used
* The website [www.biomedical.com](http://www.biomedical.com) is maintained by a separate team. The Fastly functionality is provided as a service which they consume
* There is a time period overnight when there are no commits

Test Considerations

* What is the risk profile of the system
* Risk = impact v likelihood
  + (Based on scant information and prior experience) the messaging and database are where errors likely to occur
* Only from [www.Biomedical.com](http://www.Biomedical.com) ?
  + Having done an exploratory test it appears [www.biomedical.com](http://www.biomedical.com) is only one of a series of sites that uses the Springer Nature search engine
  + Therefore
    - Testing will focus on all possible permutations of messages into in and out of components – for the avoidance of doubt not for a specific site
    - For the SDLC Input to the site from the presentation layer will utilise a test generic website
    - During post-deployment testing and periodically executed check tests entry will be via www.biomedical.com
* Scope and run
  + Wherever possible the full range of all functionality is exercised including happy path, edge cases and corner cases
  + Where a run is truncated due to a check-in and a new run initiated, the execution restarts at the happy path.
  + Each night there is a scheduled run of every happy path / edge case / corner case irrespective of any new commits

Test cases

* The test cases are displayed on the workbook “Stringer Nature Tests” with the tab “Task 2”
* Each column represents the answer to a different consideration or question

|  |  |
| --- | --- |
| Component(s) | Which system component, group of components or flow is to be exercised |
| Test Type | Functional or Non-Functional |
| Tests | How will the tests exercise the system |
| Test Reason | Test Rationale for preparing and executing the tests |
| Tools | Tools that will be used to implement the tests |
| Frameworks | The overarching control mechanism for test runs |
| Scope | The degree to which a component(s) are to be exercised (Note there are possibly > 1 row for differing levels of scope) |
| Run | The trigger to kick off a run of the automation. Triggers are:   * Manual – user starts run * On commit – developer checks code in * Overnight – scheduled run |
| Comments | Guide to testers executing/adding/amending/deleting test cases |

**Task 3 Forgotten Password**

Assumptions

* The forgotten password requirement and prompt question represent a single change to be released
* Customer is within Springer Nature

Questions

* Forgotten password functionality
  + What is the flow?
    - Detail - will the user be warned that it is a previously used password?
  + What determines a duplicate?
    - Detail – does case sensitivity count for checking duplication?
    - Detail – a user currently has a password that is a duplicate – will he be forced to change?
    - Detail a user changes password outside of the forgotten functionality – will behaviour align with this change
    - Assumption – user can choose the same password as another user – correct?
    - “use the same password twice” – does this mean the same as the current password or that the user has ever used?
  + Expected volumes?
* Security question
  + “be able to” – assumption this means the functionality is optional – correct?
  + The question/answer
    - Default questions or user entered or user can choose either?
    - Restrictions on length?
    - Restrictions on format – only alphanumeric or alphanumeric + special characters?
    - Any characters not allowed?
    - Restrictions on taste grounds – e.g. profanity / hate words / vulnerabilities (e.g. “Password1”?
    - Can the answer be the same as the question?
    - How does the user know if the question has been accepted?
    - Assumption – this is not only for the forgotten password functionality – correct?
    - New registrations – are they prompted to add a question?
    - Existing users – in what circumstances can a user add a question?
    - Existing users – are they notified of the new functionality?
    - Behaviour on multiple fails?
  + Using the question
    - If the user can add a security question – this implies they are prompted to enter the answer at some point in the future. Does this change include functionality to present to the user for an answer?
    - - if it is presented to the user
      * What is the behaviour on an incorrect entry?
      * What is the behaviour after multiple incorrect entries?
      * At what point in the flow is the user prompted for an answer?

[For the purposes of this task it is assumed that the response from the customer is – the requirement does not cover the use of the question.

Tools/Environment

* Environmental
  + A copy of the website with
    - the forgotten password functionality
    - the account settings
  + Access to
    - Messages through the system
    - Databases
  + Devices
    - Physical iOS and Android devices with supported OS
* Tools
  + Selenium for entry into the front end
  + TOAD (or equivalent) for manual DB queries
  + - Varnishstat / varnishhist / varnishtop / varnishtest for checking the messaging.
  + Mobile device simulators

Tests

Based on assumed answers to the questions above:

* Forgotten Password
  + User has forgotten password and is on the reset page – attempts to set to *the current password*
  + User has forgotten password and is on the reset page – attempts to set to *a password last used 3 resets ago*
  + User attempts to set blank [assumed to be in the stack of existing regression tests.]
  + User has forgotten password and is on the reset page – attempts to set to *a password never used*
  + User has forgotten password and is on the reset page – attempts to set to a password of “jAbberwocky33” [NOTE this depends on the usual acceptable format e.g. Capital letter/numbers/length & assumed to be in the stack of existing regression tests.]
  + User attempts to set multiple times [Max attempts is assumed to be restricted]
  + New user attempts to set a password to one already used by another user
  + User has forgotten password and is on the reset page – attempts to set to *a password already in use by another user*
* Optional security question
  + User has forgotten password and is on the reset page – presented with option to add question
  + User is amending password and is on the reset page – presented with option to add question
  + User is registering – presented with option to add question
  + User has forgotten password and is on the reset page – *does not add and continues to complete process*
  + User is amending password and is on the reset page – presented with option to add question - *does not add and continues to complete process*
  + User is registering – presented with option to add question - *does not add and continues to complete process*
  + User has forgotten password and is on the reset page – *adds question but no answer*
    - Repeat with new user and existing user
  + User has forgotten password and is on the reset page – *adds answer but no question*
    - Repeat with new user and existing user
  + User has forgotten password and is on the reset page – *same question/answer phrase*
    - Repeat with new user and existing user
  + User has forgotten password and is on the reset page – *selects default question*
    - Repeat with new user and existing user
  + User has forgotten password and is on the reset page – *selects user entered* [This test and previous assume they can do either]
    - Repeat with new user and existing user
  + User has forgotten password and is on the reset page – *Enters restricted question due to vulnerability concerns e.g. Password1*
    - Repeat with new user and existing user
* User has reset the password – *Confirm on the database it has been reset*