**Test Plan for Web Archives (The City of Sacramento)**

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1. **INTRODUCTION**

A simple test plan to check the behaviour of Web Archive page.

**2.0 OBJECTIVES AND TASKS**

**2.1 Objectives**

* The objective is to thoroughly test if search functionality retrieves accurate search results.
* It is very important that the web archives both from social media and website provides
* The list based on the search algorithm designed by the developers.

**2.2** **Tasks**

**List of the use cases are:**

1. User input search words in the big search box and obtain results from the website platform and the Social Media platform
2. Users can search through these archives’ name by using the search input box “browse archives”
3. The dropdown has a search box in it, to allow to search archives by name.
4. There is an “advanced search” button that allows to narrow the search:
5. “advanced search” button that allows to narrow the search: based on date range
6. Hitting the search button will trigger a search. User should be aware something is moving always;
7. Clicking on the 2 tabs will show results for one or the other option
8. Social media archives will show aggregation results on the left-hand side
9. Social media results can be sorted by when they were created or when they were last modified. There’s an option on the top right corner of the results for this
10. **TESTING STRATEGY**

* We are going to cover unit tests for each feature. System Integration tests to check if
* Group feature (Happy Path Example: Search by words.
* Search Results populated at bottom of the Page).
* User Acceptance Testing which includes cross browser Platform testing. Regression
* Testing is done to retest all unit tests as well as integration tests.
* Core Testing is done to check overall searching the archives work based on the criteria the user selects.

**3.1 Unit Testing**

**Definition:**

Specify the minimum degree of comprehensiveness desired. Identify the techniques which will be used to judge the comprehensiveness of the testing effort (for example, determining the search functionality works for each criteria). Additionally, check if page is refreshed with search results and accurate.

**Participants:**

Tazim Kolhar

**Methodology:**

|  |  |  |
| --- | --- | --- |
| **Test Case Page Area** | **Scope** | **Expected Results** |
| Big Search box | Scenario: User provide search words and obtain results  Actions:  1.Click on the [Main Page](https://social.pagefreezer.com/openrecords/cityofsacramento).  2.Type a search word in  the big search boxes  3.Select the option “All Selected” from the drop-down list  4.Click on Search button | 1. Search results gives   Webpages from social media platform and website platform |
| Search from browser Archive | Scenario:  User searches through these archives’ name by using the search input box “browse archives”  Actions:  1.Click on the [Main Page](https://social.pagefreezer.com/openrecords/cityofsacramento).  2.Type a name/word in input box “browser archives”  3. Click Enter. | 1. Website page or Social Media page or both tabs appear to be updated with search results |
| Search from dropdown Search box | Scenario: User searches through drop-down search box by name.  Actions:  1.Click on the [Main Page](https://social.pagefreezer.com/openrecords/cityofsacramento).  2.Select the drop-down list.  3. Type a name/word in the search box from drop-down  4. Click Enter | 1. A list of pages appears   below the drop-down search box. |
| Search from advanced search box | Scenario: User searches through advanced search box by date range.  Actions:  1.Click on the [Main Page](https://social.pagefreezer.com/openrecords/cityofsacramento)  2.Click on the link Advanced Search  3. Select date range which is valid by providing 2 inputs.  4. Click on big Search button | 1. Search Results gives the list of archives within the   specified date range. |
| Check if user can navigate to search tabs | Scenario: User can navigate through Social Media and Websites tab  Actions:  1.Click on the [Main Page](https://social.pagefreezer.com/openrecords/cityofsacramento)  2. Navigate through Social Media tab and Websites tab | 1. User can navigate through both the tabs |
| Searching social media gives aggregation results on left-hand side | Scenario: User searches the archives from social media which displays aggregation results on left-hand side.  Actions:  1.Click on the [Main Page](https://social.pagefreezer.com/openrecords/cityofsacramento)  2. Select from drop-down list “Only Social Media”  3. Click on big search box. | 1. The left-hand side of the page is populated with aggregation results list based on networks, accounts, and date range. |
| Sort the social media search results | Scenario: User can sort the social media results by the date when they were created or by the date they were last modified.  Actions:  1.Click on the [Main Page](https://social.pagefreezer.com/openrecords/cityofsacramento)  2.Select from drop-down list “Only Social Media”  3. Click on big search box.  4. Click on Sort by: Select Created Date  5. Click on Sort by again: Select last modification date | 1. The Social Media pages   Results are based on the date chosen by the sort criteria. |

**3.2** **System and Integration Testing**

**Definition:**

System and Integration Testing is done to check if group of modules are working together

Each module collaborates with other module successfully. Here I am providing some sample

Integration tests scenarios considering the the limited time although there can be more scenarios if gone deeply.

**Participants:**

Tazim Kolhar

**Methodology:**

|  |  |  |
| --- | --- | --- |
| **Test Page/ Area** | **Scope** | **Expected Results** |
| Big Search Box | Scenario: User provides symbols instead of words.  Actions:  1.Click on the [Main Page](https://social.pagefreezer.com/openrecords/cityofsacramento).  2. Provide symbols instead of words or numbers.  3. Click Search (besides the big box)  4. Check the bottom of the page | 1. No results are populated on both the tabs since the input data is invalid. |
| Advanced Search box | Scenario: User provides the invalid date range  Actions:  1.Click on the [Main Page](https://social.pagefreezer.com/openrecords/cityofsacramento)  2.Click on the link Advanced Search  3. Select date range which is invalid by providing 2 inputs.  4. Click on big Search button | 1. No results are populated on both the tabs as the date range is invalid |
| Check if Aggregation results under each group is populated with the list | Scenario: User searches the archives from social media which displays aggregation results on left-hand side.  Actions:  1.Click on the [Main Page](https://social.pagefreezer.com/openrecords/cityofsacramento)  2. Select from drop-down list “Only Social Media”  3. Click on big search box.  4. Navigate to left-hand side of the page.  5.Observe the network list.  6. Observe the date range list  7 Observe the account list | 1. All the three criteria are populated with number of pages that are being matched. 2. Example for Networks. Match based on Facebook or Twitter. 3. Example for Date is it lists the pages based on the month and year. 4. Example for account is the list based on the user having twitter account or a Facebook account |

**3.3 User Acceptance Testing**

**Definition:**

The purpose of acceptance test is to confirm that the system is ready for operational use. During acceptance test, end-users (customers) of the system compare the system to its initial requirements. I am covering the scenario for cross browser testing.

**Participants:**

Tazim Kolhar

**Methodology:**

|  |  |  |
| --- | --- | --- |
| Test Page/Area | Scope | Expected Results |
| Check if the page is supported  On various browsers like Chrome, Firefox, Safari, IE | Scenario: Check cross browser platform to render the page.  Actions:  1.Write Automated tests in selenium to support various browser. | 1. All browsers are supported for the webpage. 2. All the web elements are displayed and there is no overlapping of web elements. |
| Check if the page supports various screens (mobile, desktop, tablet) | Scenario: Check screen resolution to support the webpage.  Actions:  1.Check the screens using the open source tool screen fly.  [Screen Fly](http://quirktools.com/screenfly/) | 1. All the web elements in the page are accurately appearing in different screens |

**3.4** **Automated Regression Testing**

**Definition:**

Regression testing is the selective retesting of a system or component to verify that modifications have not caused unintended effects and that the system or component still works as specified in the requirements.

**Participants: Tazim Kolhar**

**Methodology:**

In our case we must retest all the scenarios mentioned above to make sure the any changes made to the build does affect previous modules. Automating the important test cases and deploying it on Jenkins build job will periodically monitor regression tests. (Same as cron jobs in Linux)

**4.0 HARDWARE REQUIREMENTS**

* Processor: CPU @ 1.90 GHz
* RAM: 4GB (64-bit)

**5.0 ENVIRONMENT REQUIREMENTS**

**5.1** **UI Automation**

Language Used: Java Jdk1.7+

Build Tool: Maven 4.0.0

Browser/UI Automation: Selenium HQ version 3.0.1

Browser Used for Testing: Chrome Version 56.0.2924.87 (64-bit)

Test Framework: TestNG version 6.8.8 (exactly same as Junit with additional features)

IDE: Eclipse Neon.2 4.6.2

Screenfly: For testing screens (desktop, tablets, mobiles)

**6.0 FEATURES TO BE TESTED**

1. Search the Archives – Social Media Platform and Websites Platform
2. Access the archives available at the bottom of the page
3. Search Archives by name
4. Advanced search by providing date range
5. Search Results comes up on 2 tabs refreshing both the tabs with new search criteria.
6. Social media archives will show aggregation results on the left-hand side.
7. Clicking on aggregation will narrow down the search to the selected category of posts
8. Sorting the social media based on the last modified date or on the date they were created.

**7.0 SCHEDULES**

**Major Deliverables**

The below documents are delivered.

* Test Plan
* Test Cases
* Test Automation

**8.0 SIGNIFICANTLY IMPACTED DEPARTMENTS (SIDs)**

Department/Business Area Bus. Manager Tester(s)

Quality Assurance [Manager Name] Tazim Kolhar

Development [Manager Name] [Developer Name]

**9.0 DEPENDENCIES**

1. Maven is used to handle all the dependencies.
2. The pom.xml contains all the dependency details and plugin to be included.
3. For selenium, I had downloaded the it from official website and then included the jar files in the project.
4. If you are using Eclipse, then Right Click the Project -> Properties -> Java Build Path Tab -> Libraries Tab -> Click Add External Jars.
5. Here you can Browse for selenium-java-3.0.1 folder and include all the jar files found in lib directory as well as outside lib directory.
6. Later update the pom.xml to handle the dependency for selenium. Please download [ChromeDriver](https://chromedriver.storage.googleapis.com/index.html?path=2.27/) and extract chromedriver.exe in **C:\chromedriver\_win32\chromedriver.exe**. This location is important because for UI tests
7. I have set the system property to locate the Chrome Driver in the above-mentioned path.
8. For execution of UI tests, I have used maven-surefire-plugin version 2.19.1
9. Command to run the script: mvn test

**10.0 APPROVALS**

Specify the names and titles of all persons who must approve this plan. Provide space for the signatures and dates.

Name (In Capital Letters) Signature Date

TAZIMBANU KOLHAR tkolhar 03/08/2018