Homework # A : NYPL New Catalog Testing

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Software Testing

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**Introduction**

Being the fourth largest public library in the world and second in the United States, the New York Public Library contains nearly 53 million items to display to the public. In order to incorporate newer features into the original catalog, NYPL has introduced a newer version of the website that is expected to be more interactive and easier to use.

Original Catalog: <http://catalog.nypl.org>

New Catalog: <http://browse.nypl.org>

**Purpose**

The objective is to create a test plan for the stakeholders to test the features of the newer NYPL catalog and to determine whether it satisfies their acceptance criteria.

**Audience**

Staff and Stakeholders.

**Testing Limitations**

All test performed are limited to non-members (no NYPL account required).

**Test Plan**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **NEW YORK PUBLIC LIBRARY - TEST PLAN** | | | | | |
| **Sl No** | **Process ID** | **Test Description** | **Tested By** | **Status** | **Comments** |
| 1 | UI testing |  |  |  |  |
| 1.1 |  | Option to search a book by ISBN number. | Ruchi Panwar | Drafted |  |
| 1.2 |  | Sort the books by relevance. | Ruchi Panwar | Drafted |  |
| 1.3 |  | Sort the books by date. | Ruchi Panwar | Drafted |  |
| 1.4 |  | Sort the books by title. | Ruchi Panwar | Drafted |  |
| 1.5 |  | Option to refine search results by language. | Ruchi Panwar | Drafted |  |
| 2 | Database Test |  |  |  |  |
|  |  |  |  |  |  |
| 2.1 |  | Search a book by a ISBN number or a keyword and check the result count. | Ruchi Panwar | Drafted |  |
| 2.2 |  | Performance testing for query results. | Ruchi Panwar | Drafted |  |
| 2.3 |  | Verify whether SQL Injections are allowed. | Ruchi Panwar | Drafted |  |
| 3 | Advanced Features |  |  |  |  |
| 3.1 |  | Verify whether user can save the record. | Ruchi Panwar | Drafted |  |
| 3.2 |  | Verify whether user can forward the record via email option. | Ruchi Panwar | Drafted |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

**Test Methodology**

The stakeholders will measure the efficiency of new catalog based on reliability, usability, learnability, overall effectiveness and satisfaction. To do so, the stakeholders will create an automated selenium web-driver program and will test various features of the new NYPL catalog. Test results obtained from the new catalog will be compared against the original catalog, different authentic sites and libraries to make sure the new catalog is reliable and accurate.

Usability and learnability of the catalog is as important as the reliability. Hence the stakeholders will check the various options available in the new catalog and will examine the learning effort of using the new catalog, that is how easily advanced features can be used.

In order to measure the overall effectiveness and satisfaction, stakeholders will examine the performance of the new catalog that how much time it takes to provide the expected results. Also, how well the catalog has been designed to meet the user requirements and how easily the users can navigate from one section to another.

To ease the process, stakeholders have divided the tests into different categories such as UI testing, database testing, advanced feature testing etc.

**Prototype**

Stakeholders have used database test case (2.1 from the table) as prototype. In this particular scenario, an automated program will compare the result count for both the original and new catalogs for a given keyword, and if the count of new catalog is equal to or more than original, then the test will be considered as successful.

Prototype code is available at Github folder "Lecture 7 Homework".

<https://github.com/rpanwar01/Software_Testing>

References

*https://en.wikipedia.org/wiki/\**