DASISH Web Annotator (DWAN)

Test Plan for Functionality, Content and Usability

Test Plan Identifier

DWAN release 1.0 Test Plan for FCU version 0.9 (draft)

Introduction

Functional testing is primarily is used to verify that a piece of software is providing the same output as required by the end-user or business. Typically, functional testing involves evaluating and comparing each software function with the business requirements. Software is tested by providing it with some related input so that the output can be evaluated to see how it conforms, relates or varies compared to its base requirements. Moreover, functional testing also checks the software for usability, such as by ensuring that the navigational functions are working as required.

While usability testing watches what users do, not what they say they do, content testing determines what users understand, not what they say they understand.

Features and Functions to Test

Functionality

FN1 - High

All transactions, which require the DWAN client to maintain some sort of session with the DWAN server, will be tested to ensure that the session is maintained under the following conditions:

- Tester clears the browser cache mid-way through a series of operations on Web page.
- Tester uses the browser's Reload button mid-way through a series of operations on Web page.
- Tester resizes the browser window mid-way through a series of operations on Web page.
- Tester takes an extended break mid-way through a series of operations e.g. a 30 minute coffee break.
- Tester resets the PC's clock (backward by 1 hour and 1 day) mid-way through a series of operations.
- Tester uses two browsers (same brand and version) and the same client account to perform two instances of the same transaction, "flip-flopping" from one browser to the next.
- Tester uses two or more browsers (same brand, different versions) and the same client account to perform two instances of the same transaction, "flip-flopping" from one browser to the next.

FN2 - High

All use cases will be tested via DWAN client to ensure that all provided functionality is working as expected. The use cases are:

- Authentication (logging in)
    - user can log in via Shibboleth and start using functionality for annotation.
    - user can log in via basic authentication and start using functionality for annotation.
- Visiting an annotated web page

    - when authenticated user opens previously annotated web page then he/she can see only those annotations what are owned by the same user or what are publicly readable.
- Viewing an individual annotation
    - when authenticated user opens annotated web page then he/she can open an individual annotation and look at annotation properties - Brief overview, Annotation, HYPER-ANCHOR Code and Page title.
- Annotation creation
    - an authenticated user can mark one part of text on any Web page and create an annotation for that marked text.
    - an authenticated user can mark more than one part of text on any Web page and create an annotation for that marked text collection.
    - an authenticated user can mark a picture on any Web page and create an annotation for that marked picture.
- Editing an annotation body
    - an authenticated user can select one annotation and update the properties of annotation only if user has write permission for that annotation.
- Deleting an entire annotation (if <uid> is an owner)
    - an authenticated user can select one annotation what he/she owns and delete that annotation.
- Deleting all annotations on a Web page (if <uid> is an owner)
    - an authenticated user can select one Web page where exists the annotations what he/she owns and delete all annotations at once.
- Managing permissions

FN3 - High
All use cases will be tested via server API to ensure that all provided functionality is working as expected. The use cases are the same as in FN2.

Content

CN1 - Medium
The saved content (body of annotation) is always readable in same form as it was entered into system.

Usability

US1 - High
The system should always keep users informed about what is going on, through appropriate feedback within reasonable time.

US2 - Medium
Accelerators - unseen by the novice user - may often speed up the interaction for the expert user such that the system can cater to both inexperienced and experienced users. Allow users to tailor frequent actions.

Features and Functions not to Test

Notable features and functions that will not be tested in current version of DWAN include:

- Managing permissions

Test Deliverables

The following documents will be generated as a result of these testing activities:

- Test plan for Functionality, Content and Usability (this document)
- Test log for each testing effort
- Automated test scripts and supporting test data

Under normal testing conditions, the incident reports would be produced in GitHub.
With the exception of the automated test scripts, all documents will be delivered as PDF documents.

Test Environment

Testing is performed on the client side with operating system Windows 7, Windows 8, Mac OS X or Linux. For testing of the browser plugin the latest Mozilla Firefox version (29 or later) is used. For collecting data about HTTP requests and responses the LoadUIWeb 2.99 is used. For the testing of the server API the Python programming environment with the unit testing framework and the package Requests 2.3.0 (https://pypi.python.org/pypi/requests/) is used.