Florida International University
School of Computing and Information Sciences

Software Engineering Focus

TESTING MANUAL

Project Title: EnvoScholar v2.0

Team Members: Sheila Alemany, Carlos Bravo

Product Owner: Mark Finlayson, Ph.D.

Instructor and Mentor: Masoud Sadjadi, Ph.D.

0.1 UNIT TESTS

[NVOS-10] Visualization of Text

- ○ **Test Case ID:** NVOS-10-T01

- ○ **Description/Summary of Test:**

  - · User has selected a concept relevant to the article selected.
  - · User has seen all the sentences in the abstract that contain those concepts clearly highlighted.
  - · User has removed all highlight once they no longer wish to view the highlighted sentences.

- ○ **Pre-condition:** User is on the Article Information page.

- ○ **Expected Results:** User should be able to clearly see all the sentences in the abstract where the concept is located.

- ○ **Actual Result:** The expected results are equal to the actual result.

- ○ **Status (Fail/Pass):** Pass.

[NVOS-34] Article Feedback

- ○ **Test Case ID:** NVOS-34-T01

- ○ **Description/Summary of Test:**

  - · User clicks arrow UP or arrow DOWN.
  - · Rating is sent to MongoDB.
  - · Arrow changes color to indicating success. Green for UP and red for DOWN.

- ○ **Pre-condition:** User is on the Display Results page.

- ○ **Expected Results:** Arrow changes color accordingly.

- ○ **Actual Result:** The expected results are equal to the actual result.

- ○ **Status (Fail/Pass):** Pass.

[NVOS-34] Article Feedback

- ○ **Test Case ID:** NVOS-34-T02

- ○ **Description/Summary of Test:**

  - · User clicks arrow DOWN.

  - · Rating is sent to MongoDB.

  - · Arrow changes color to red.

- ○ **Pre-condition:** User is on the Display Results page.

- ○ **Expected Results:** Arrow changes color to red.

- ○ **Actual Result:** The expected results are equal to the actual result.

- ○ **Status (Fail/Pass):** Pass.

[NVOS-34] Article Feedback

- ○ **Test Case ID:** NVOS-34-T03

- ○ **Description/Summary of Test:**

  - · User clicks arrow UP.

  - · Rating is sent to MongoDB.

  - · Arrow changes color to green.

- ○ **Pre-condition:** User is on the Display Results page.

- ○ **Expected Results:** Arrow changes color to green.

- ○ **Actual Result:** The expected results are equal to the actual result.

- ○ **Status (Fail/Pass):** Pass.

[NVOS-47] Tree Visualization

- ○ **Test Case ID:** NVOS-47-T01

- ○ **Description/Summary of Test:**

  - · User has browsed to the treeview page.

  - · User selected a concept.

· Treeview page displays a dynamic tree structure properly showing the ontology hierarchy.

○ **Pre-condition:** User is on another page and selects Treeview from the navigation bar.

○ **Expected Results:** User should see the dynamic ontology hierarchy for the specific selected concept.

○ **Actual Result:** Users sees the dynamic ontology hierarchy for any specific selected concept.

○ **Status (Fail/Pass):** Pass.

[NVOS-48] Graph Node Visualization

○ **Test Case ID:** NVOS-48-T01

○ **Description/Summary of Test:**

· User has browsed to the node graph view page.

· User clicked on a concept.

· Node graph dynamically updated related concepts when clicking a node.

○ **Pre-condition:** User is on another page and selects node graph from the navigation bar and then clicks a node.

○ **Expected Results:** User should see the starting dynamic ontology graph and updated graph after clicking.

○ **Actual Result:** User sees ontology graph and its updated when a node is clicked.

○ **Status (Fail/Pass):** Pass.

[NVOS-64] Dynamic Search in Tree

○ **Test Case ID:** NVOS-64-T01

○ **Description/Summary of Test:**

· User has entered string in the search bar.

· User has hovered over one of the list of resulting concepts.

· User can see the treeview hierarchy of the corresponding result.

○ **Pre-condition:** User is on the Treeview page.

○ **Expected Results:** User should be able to easily search for terms, hover over terms, and dynamically see the treeview.

○ **Actual Result:** User dynamically sees the treeview of search concepts.

○ **Status (Fail/Pass):** Pass.

[NVOS-70] Unifying Visualization

○ **Test Case ID:** NVOS-70-T01

○ **Description/Summary of Test:**

⋅ User has browsed to the Ontology page.

⋅ User selected a concept or searched for a concept.

⋅ User sees a dynamic tree structure and node graph properly showing the ontology hierarchy.

○ **Pre-condition:** User is on another page and selects Ontology from the navigation bar.

○ **Expected Results:** User should see the dynamic ontology hierarchy and node graph for the specific selected or searched concept.

○ **Actual Result:** Users sees the dynamic ontology hierarchy for any specific selected concept with the various visualization techniques.

○ **Status (Fail/Pass):** Pass.

[NVOS-71] Enhance Treeview Search Results

○ **Test Case ID:** NVOS-71-T01

○ **Description/Summary of Test:**

⋅ User has entered a string into the search bar.

⋅ User has seen a list of concepts in the ENVO ontology that contain the entered string.

⋅ User can see the identification numbers under the bolded concepts.

⋅ User can hovered over or clicked a concept and saw the concept reflected in the treeview and node graph.

○ **Pre-condition:** User is on the Ontology page.

○ **Expected Results:** User should be able to easily and intuitively search for concepts in the ontology.

○ **Actual Result:** The expected results are equal to the actual result.

○ **Status (Fail/Pass):** Pass.

[NVOS-72] Node Graph Search

○ **Test Case ID:** NVOS-72-T01

○ **Description/Summary of Test:**

· User enters concept on search bar.

· User hover over a concept.

· User can see a new graph in the Node Graph block.

○ **Pre-condition:** User accessed Ontology page and enters a concepts that exists in the ENVO ontology.

○ **Expected Results:** User should be able to see node graph containing searched concepts is displayed.

○ **Actual Result:** The expected results are equal to the actual result.

○ **Status (Fail/Pass):** Pass.

[NVOS-87] Autocomplete Search

○ **Test Case ID:** NVOS-87-T01

○ **Description/Summary of Test:**

· User double clicks on the search bar and sees a list of concepts from the ENVO ontology.

· User has entered a string into the search bar.

· User has seen a list of concepts in the ENVO ontology that contain the entered string.

○ **Pre-condition:** User in on the Homepage.

○ **Expected Results:** User should be able to easily and intuitively search for concepts in the ontology.

○ **Actual Result:** The expected results are equal to the actual result.

○ **Status (Fail/Pass):** Pass.

[NVOS-97] Feedback History Page

○ **Test Case ID:** NVOS-97-T01

○ **Description/Summary of Test:** User is able to see their Article Feedback History from user's profile.

○ **Pre-condition:**

· MongoDB is properly connected.

· User is logged into their account.

· User has made at least one search.

· User has rated at least one article.

· User is on the Feedback History page.

○ **Expected Results:** User should be able to see the Article Feedback History.

○ **Actual Result:** The expected results are equal to the actual result.

○ **Status (Fail/Pass):** Pass.

0.2   INTEGRATED TESTS

[NVOS-10] Visualization of Text

○ **Test Case ID:** NVOS-10-T02

○ **Description/Summary of Test:** All the possible sentences are highlighted entirely upon selection of a concept.

○ **Pre-condition:** All the relevant concepts are properly displayed on the Article Information page.

○ **Expected Results:** The sentences in the abstract are highlighted upon selection of a concept.

- ○ **Actual Result:** The Article Information page follows the expected behavior.

- ○ **Status (Fail/Pass):** Pass.

[NVOS-34] Article Feedback

- ○ **Test Case ID:** NVOS-34-T04

- ○ **Description/Summary of Test:** Feedback is sent to MongoDB and article rating is updated.

- ○ **Pre-condition:** Search results are displayed and arrows for feedback are displayed.

- ○ **Expected Results:** MongoDB is updating with new rating.

- ○ **Actual Result:** The database follows the expected behavior.

- ○ **Status (Fail/Pass):** Pass.

[NVOS-47] Treeview Visualization

- ○ **Test Case ID:** NVOS-47-T02

- ○ **Description/Summary of Test:** Validate that the treeview can process and display the correct concepts.

- ○ **Pre-condition:** Ontology is properly retrieved and parsed by the backend.

- ○ **Expected Results:** The dynamic ontology hierarchy is displayed for any selected concept.

- ○ **Actual Result:** The treeview page follows the expected result and the proper dynamic ontology hierarchy is shown.

- ○ **Status (Fail/Pass):** Pass.

[NVOS-48] Graph Node Visualization

- ○ **Test Case ID:** NVOS-48-T02

- ○ **Description/Summary of Test:** Validate that the node graph view can process and display the correct concepts.

- ○ **Pre-condition:** Ontology is properly retrieved and parsed by the backend.

- ○ **Expected Results:** The dynamic ontology hierarchy is displayed for any selected concept.

○ **Actual Result:** The node graph page follows the expected result and the proper dynamic ontology graph is shown.

○ **Status (Fail/Pass):** Pass.

[NVOS-64] Dynamic Search in Tree

○ **Test Case ID:** NVOS-64-T02

○ **Description/Summary of Test:** Validate that the treeview can process and search for the correct concepts.

○ **Pre-condition:** Ontology concepts are properly retrieved and parsed by the backend.

○ **Expected Results:** The dynamic ontology hierarchy is displayed for any concept once the user hovers on the term.

○ **Actual Result:** The treeview page follows the expected result and the proper dynamic ontology hierarchy is shown.

○ **Status (Fail/Pass):** Pass.

[NVOS-70] Unifying Visualization

○ **Test Case ID:** NVOS-70-T02

○ **Description/Summary of Test:** Validate that the treeview and node graph can process and display the correct concepts simulatenously.

○ **Pre-condition:** Ontology is properly retrieved and parsed by the backend.

○ **Expected Results:** The dynamic ontology hierarchy is displayed for any selected or searched concept in the treeview and node graph.

○ **Actual Result:** The Ontology page follows the expected result and the proper dynamic ontology hierarchy is shown.

○ **Status (Fail/Pass):** Pass.

[NVOS-71] Enhance Treeview Search Results

○ **Test Case ID:** NVOS-71-T02

○ **Description/Summary of Test:** All the possible related concepts are shown in the search results and can be accessed using a scrollbar.

○ **Pre-condition:** The user is on the Ontology page.

○ **Expected Results:** The corresponding concepts are shown when the user enters a string.

○ **Actual Result:** The search bar follows the expected behavior.

○ **Status (Fail/Pass):** Pass.

[NVOS-72] Node Graph Search

○ **Test Case ID:** NVOS-72-T02

○ **Description/Summary of Test:** Entered concepts are searched upon hover from autocomplete list and new graph is displayed containing the searched concept along its related concepts.

○ **Pre-condition:** Initial graph is properly displaying.

○ **Expected Results:** New graph is displayed containing searched concept.

○ **Actual Result:** The search follows the expected behavior.

○ **Status (Fail/Pass):** Pass.

[NVOS-87] Autocomplete Search

○ **Test Case ID:** NVOS-87-T02

○ **Description/Summary of Test:** All the possible related concepts are shown from the homepage and can be accessed using a scrollbar.

○ **Pre-condition:** The user is on the Homepage.

○ **Expected Results:** The corresponding concepts are shown when the user enters a string.

○ **Actual Result:** The autocomplete search bar follows the expected behavior.

○ **Status (Fail/Pass):** Pass.

[NVOS-97] Feedback History Page

- ○ **Test Case ID:** NVOS-97-T02

- ○ **Description/Summary of Test:** Validate that the article feedback is stored, updated, retrieved from MongoDB, and displayed on user's profile.

- ○ **Pre-condition:** The user is registered and logged in.

- ○ **Expected Results:** List of articles along with arrow up or down depending on user feedback.

- ○ **Actual Result:** List of articles are displayed accordingly from information stored in MongoDB.

- ○ **Status (Fail/Pass):** Pass.