## **NVOS-47: Tree Visualization**

User Story NVOS-47: Tree Visualization

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NVOS-47 - Ontology Tree Visualization DONE

#### **Description**

As a user, I would like a visualization technique using a tree structure so that I could properly see the ENVO ontology terms concepts, and their corresponding descriptions.

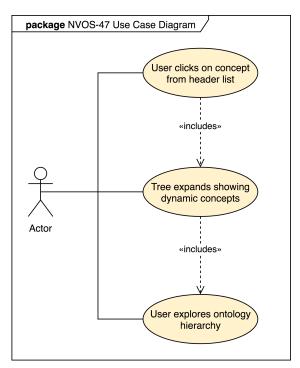
Acceptance Criteria

- The user should be able to navigate to the tree visual from the homepage.
- The user should be able to easily navigate through the tree.

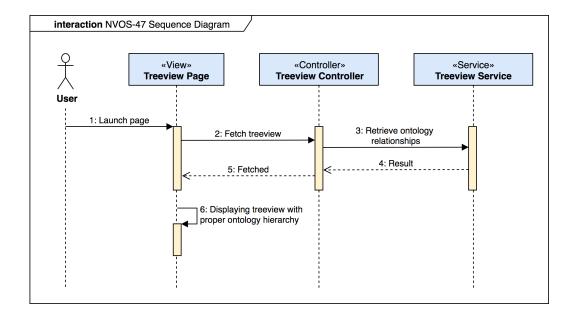
#### **Use Case**

- Name: NVOS-47
- · Actor: User
- · Preconditions: Application must be on accessible from a web browser.
- Description <Flow of events>:
  - User should be able to see a list of terms from the ontology.
  - User should be able to see an expandable, dynamic tree.
  - · User should be able to view details and relationships between different concepts.

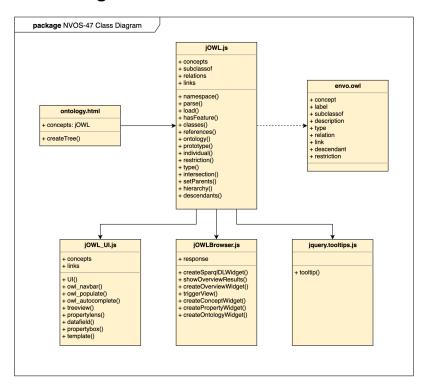
### **Use Case Diagram**



## **Sequence Diagram**



# **Class Diagram**



#### **Unit Test**

- 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.

### **Integration Test**

- 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.

#### Visual User Guide

