

NVOS-64: Dynamic Search in Tree

User Story NVOS-64: Dynamic Search in Tree

Name: [Sheila Alemany](#)

Team Member(s): [Carlos A Bravo Marin](#) [Deya Banisakher](#) [Maria E. Presa Reyes](#)

Project: Spring 2019 EnvoScholar v2.0

Product Owner(s): [Mark Finlayson](#)

Mentor(s): [Masoud Sadjadi](#)

Instructor: [Masoud Sadjadi](#)



NVOS-64 - Dynamic Search in Tree DONE

Description

As a user, I would like a dynamic search which shows me the ontology tree and node graph containing the concepts and their relationships as I hover over various concepts.

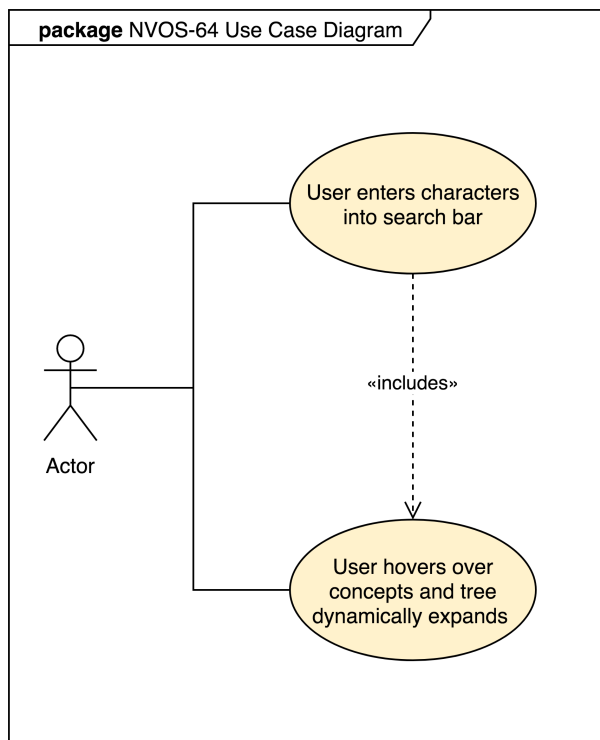
Acceptance Criteria

- The user should be able to enter words into a search bar and be shown a list of possible corresponding concepts.
- The user should be able to hover over any of the concepts from the list and dynamically see the ontology tree.

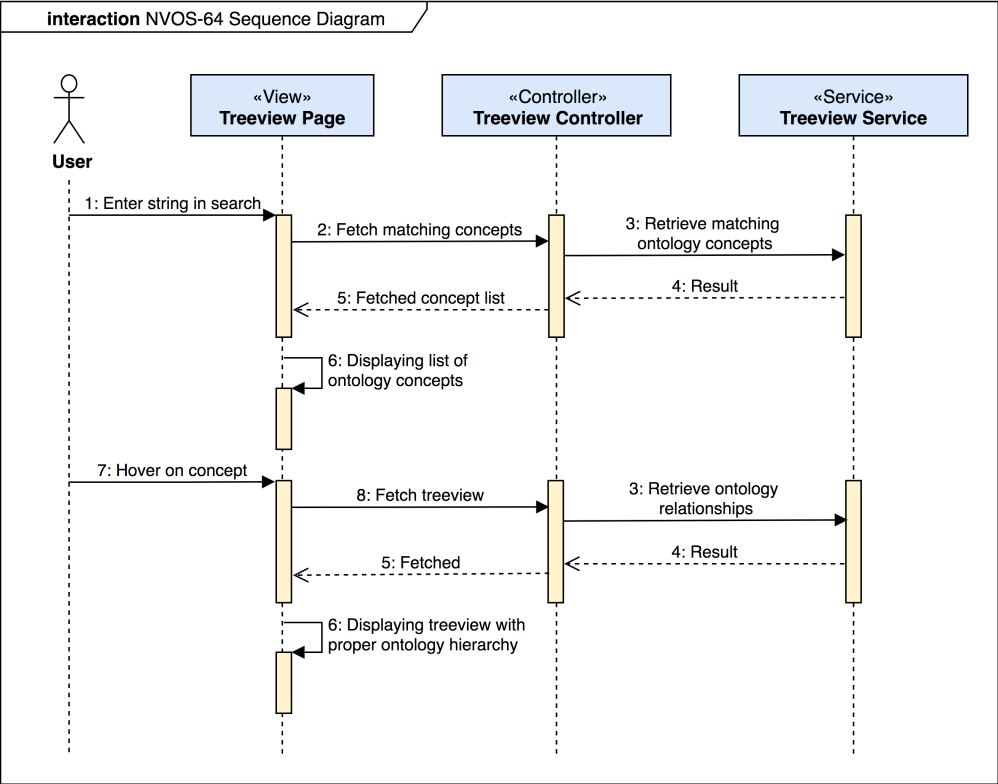
Use Case

- Name: NVOS-64
- Actor: User
- Preconditions: Application must be on accessible from a web browser.
- Description <Flow of events>:
 - User should be able to enter a word into the search bar.
 - User should be able to see a list of possible related terms.
 - User should be able to hover over each possible related term and dynamically the corresponding ontology tree.

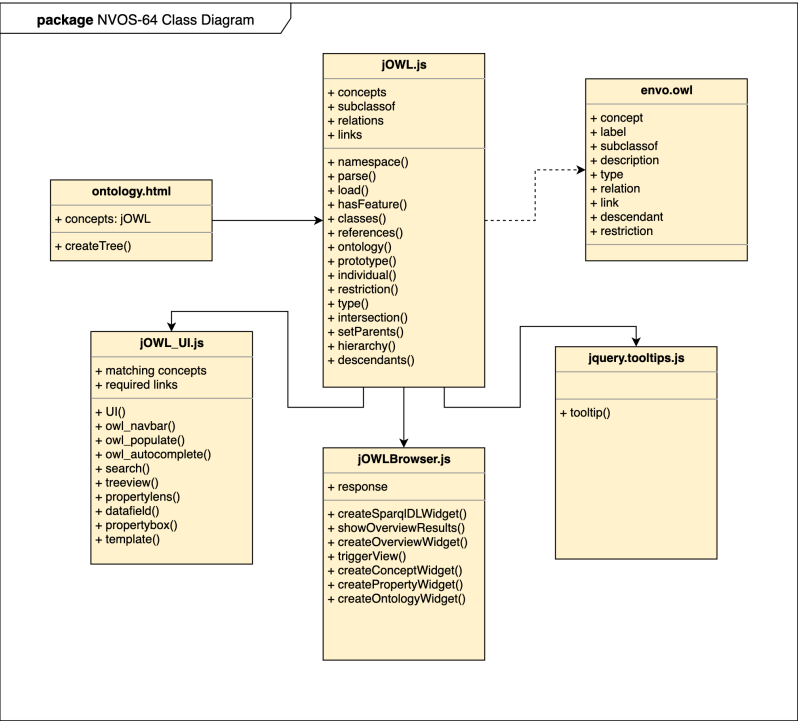
Use Case Diagram



Sequence Diagram



Class Diagram



Unit Test

- 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.

Integration Test

- 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.

Visual User Guide

EnvoScholar v2.0

Ontology ▾Account

Environment Ontology

Available at <https://bioportal.bioontology.org/ontologies/ENVO>

ClassesPropertiesSPARQL-DL

Click on any of the concepts below, or search, to see the ontology relationships below

Most Frequently Searched Concepts

geographic feature

bedding-plane cave

anthropogenic geographic feature

mine tailing

administrative region

first-order administrative region

second-order administrative region

third-order administrative region

fourth-order administrative region

Treeview

environmental feature

astronomical body part

geographic feature

water body

lentic water body

lake

freshwater lake

thermokarst lake

Concept: freshwater lake

Description:

Terms: ENVO 00000021, freshwater lake

Relations:

fres

ENVO_00000021owl:Class

Terms: freshwater lake

ENVO_00000053owl:Class

Terms: freshwater marsh

ENVO_00000243owl:Class

Terms: freshwater wetland

ENVO_00000873owl:Class

Terms: freshwater biome

ENVO_00002011owl:Class

Terms: fresh water

ENVO_00002037owl:Class

Terms: Obsolete freshwater habitat

ENVO_00002198owl:Class

Terms: fresh water aquarium

ENVO_00003032owl:Class

Terms: fresh animal manure

ENVO_0010133owl:Class

Terms: obsolete fresh smoked sausage

ENVO_0010134owl:Class

Terms: obsolete fresh sausage

ENVO_0010149owl:Class

Terms: Obsolete fresh sea water fish

ENVO_0010165owl:Class

Terms: Obsolete freshwater fish product

ENVO_01000252owl:Class

Terms: freshwater lake biome

Environment Ontology

Available at <https://bioportal.bioontology.org/ontologies/ENVO>

ClassesPropertiesSPARQL-DL

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first-order administrative region

second-order administrative region

third-order administrative region

fourth-order administrative region

Treeview

environmental feature

environmental zone

vegetated area

wetland

marsh

freshwater marsh

freshwater wetland

freshwater marsh

Concept: freshwater marsh

Description:

Terms: ENVO 00000053, freshwater marsh

Relations:

fres

ENVO_00000021owl:Class

Terms: freshwater lake

ENVO_00000053owl:Class

Terms: freshwater marsh

ENVO_00000243owl:Class

Terms: freshwater wetland

ENVO_00000873owl:Class

Terms: freshwater biome

ENVO_00002011owl:Class

Terms: fresh water

ENVO_00002037owl:Class

Terms: obsolete freshwater habitat

ENVO_00002198owl:Class

Terms: fresh water aquarium

ENVO_00003032owl:Class

Terms: fresh animal manure

ENVO_00101133owl:Class

Terms: obsolete fresh smoked sausage

ENVO_00101134owl:Class

Terms: obsolete fresh sausage

ENVO_00101149owl:Class

Terms: obsolete fresh sea water fish

ENVO_00101165owl:Class

Terms: obsolete freshwater fish product

ENVO_01000252owl:Class

Terms: freshwater lake biome