NVOS-70: Unifying Visualization

User Story NVOS-70: Unifying Visualization

Name: Carlos A Bravo Marin Sheila Alemany
Team Member(s): 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-70~~ - Unifying Visualization DONE

Description

As a user, I would like to see both the treeview and the node graph view of the ontology on the same page so that I can use both visualizations concurrently for ontology browsing.

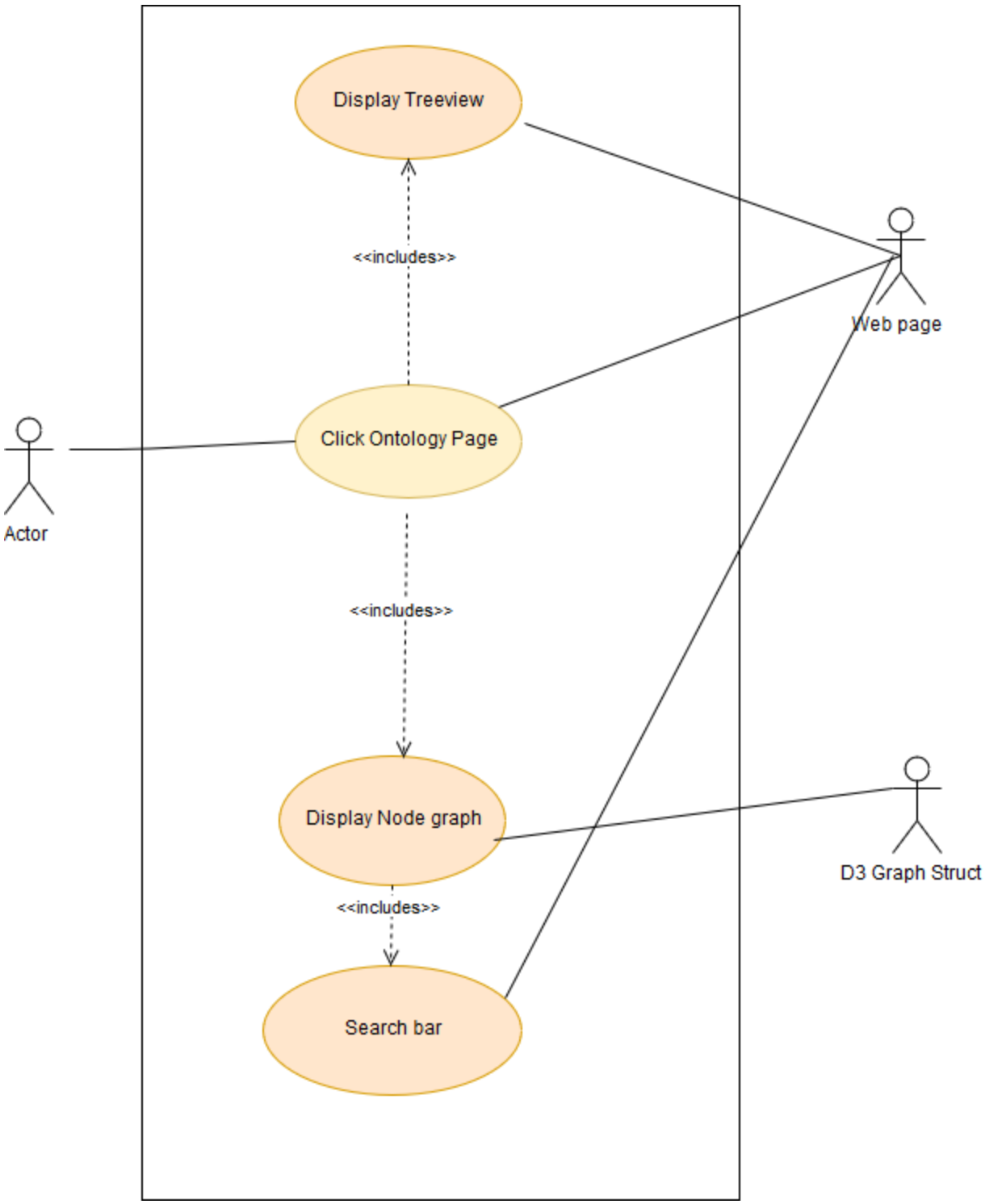
Acceptance Criteria

- The user should be able to see the treeview and the node graph on the same page.
- The user should be able to navigate through both visualization techniques concurrently and both concepts are updated once a concept is selected.

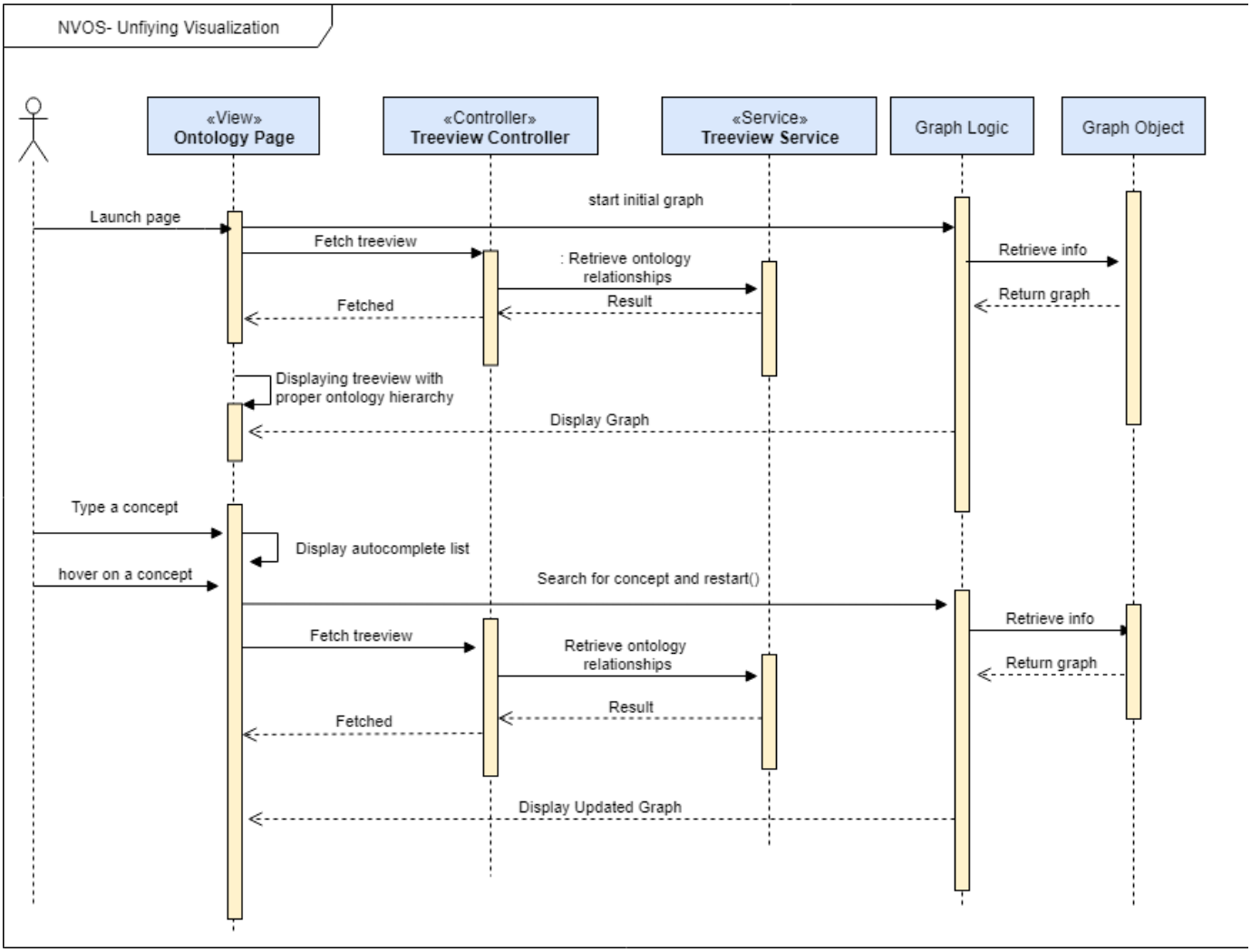
Use Case

- Name: NVOS-70
- Actor: User
- Preconditions: Application must be on accessible from a web browser.
- Description <Flow of events>:
    - User should be able to browse to the ontology page.
    - User should be able to see both the treeview and the graph node visualizations on the same page.
    - User should be able to browse those visualizations as desired.

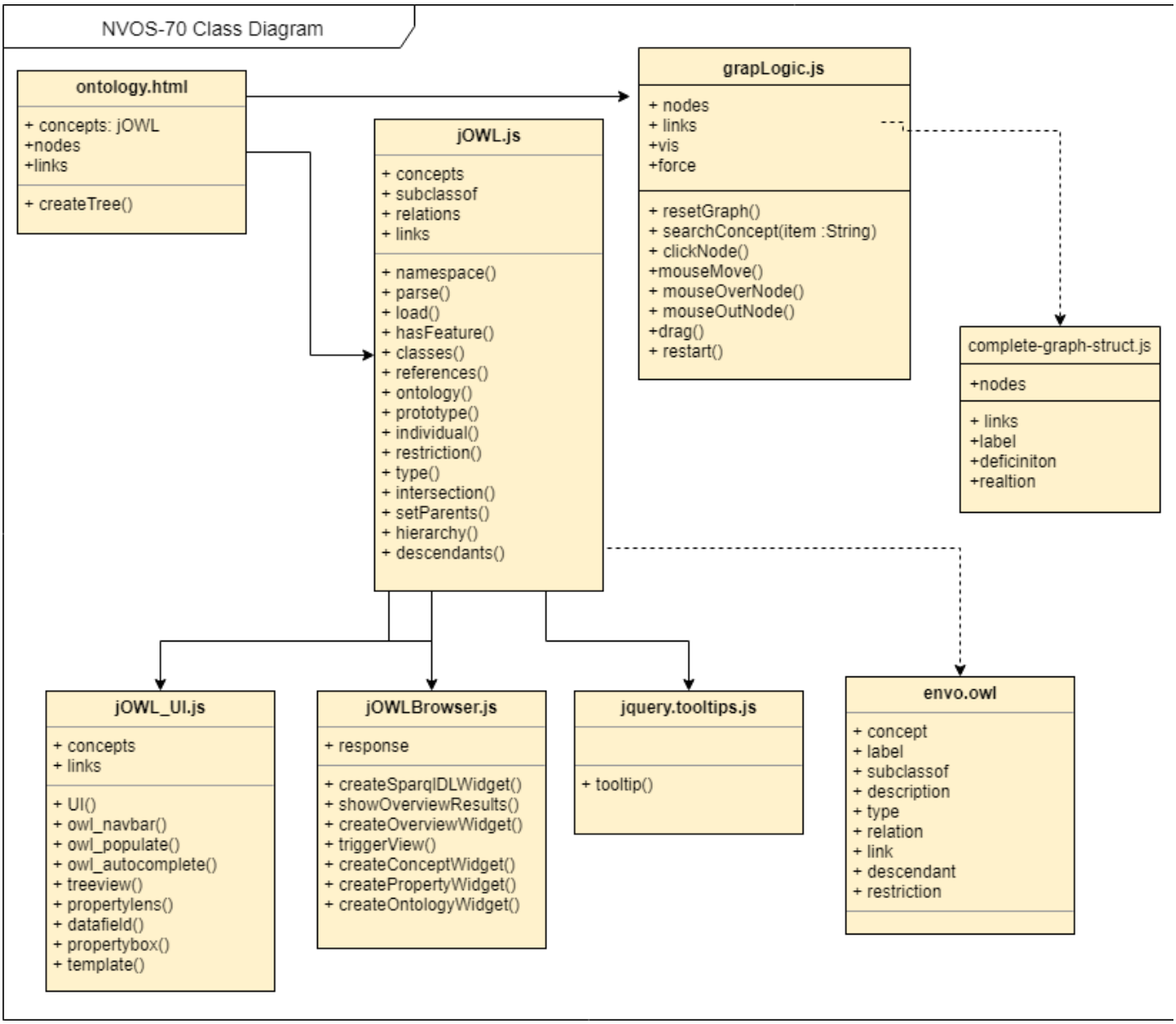
Use Case Diagram



Sequence Diagram



Class Diagram



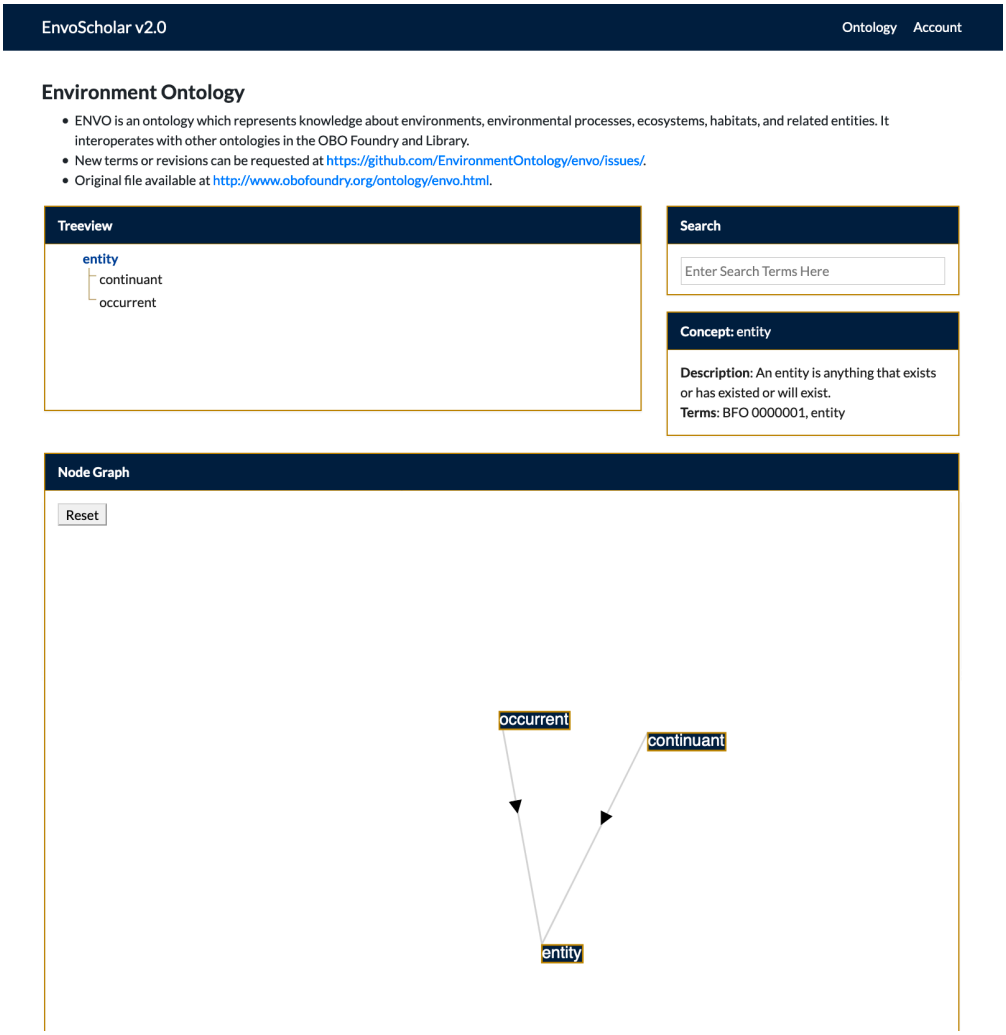
Unit Test

- 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.

Integration Test

- 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.

Visual User Guide



EnvoScholar v2.0 Ontology Account

Environment Ontology

- ENVO is an ontology which represents knowledge about environments, environmental processes, ecosystems, habitats, and related entities. It interoperates with other ontologies in the OBO Foundry and Library.
- New terms or revisions can be requested at https://github.com/EnvironmentOntology/envo/issues/.
- Original file available at http://www.obofoundry.org/ontology/envo.html.