

NVOS-48: Graph Node Visualization

User Story Name NVOS-48 Graph Node Visualization

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Description

As a user, I want to be able to visualize the environment ontology in an node graph format so that I can browse and learn more about the concepts in the ENVO ontology and incorporate them into my search queries.

Acceptance Criteria:

- User can access Ontology page
- Ontology is displayed in a node graph format displaying nodes(concepts) and edges (relationships among them).
- Ontology can be browsed and expanded when clicking in a node.
- On mouse over a node, further information about the concept can be viewed in a tooltip.

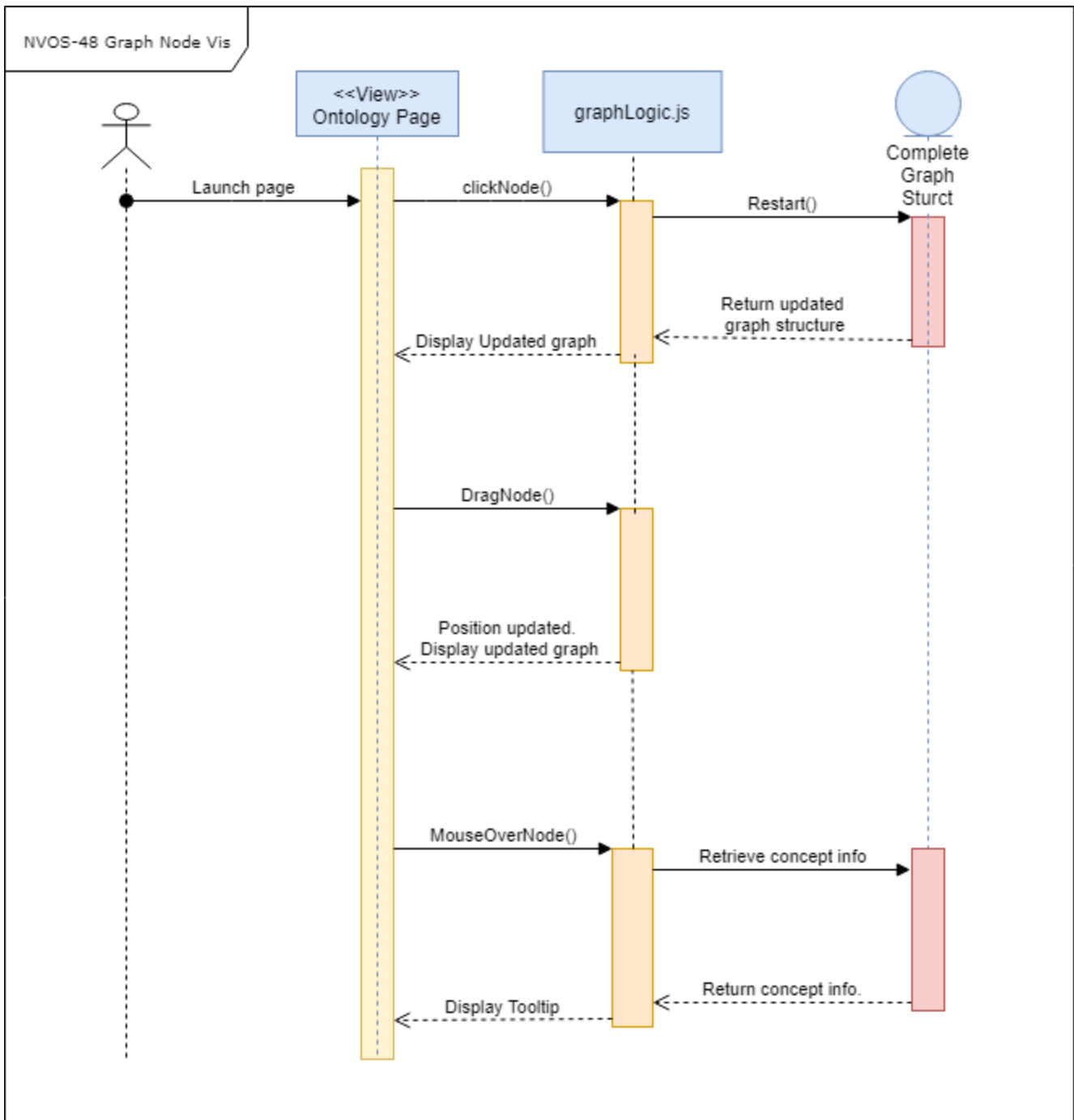
Use Case

- Name: NVOS-48
- Actor: @User
- Preconditions: Application must be accessible from a web browser
- Description <Flow of events>:
 - User access the web page from a browser.
 - User clicks on the Ontology toggle and select Node graph.
 - Node graph of the ENVO ontology is displayed.
 - User can click in a node to display concepts related to the node.
 - User moves mouse over a node to see more information related to it.
 - User can drag nodes to rearrange them as desired.

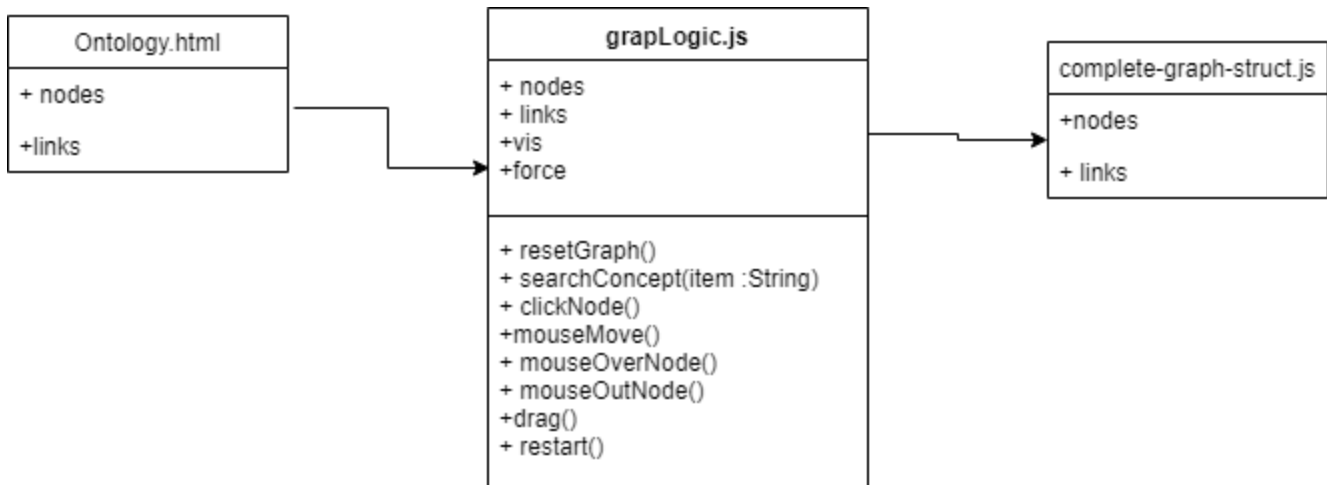
Use Case Diagram



Sequence Diagram



Class Diagram



Unit Test

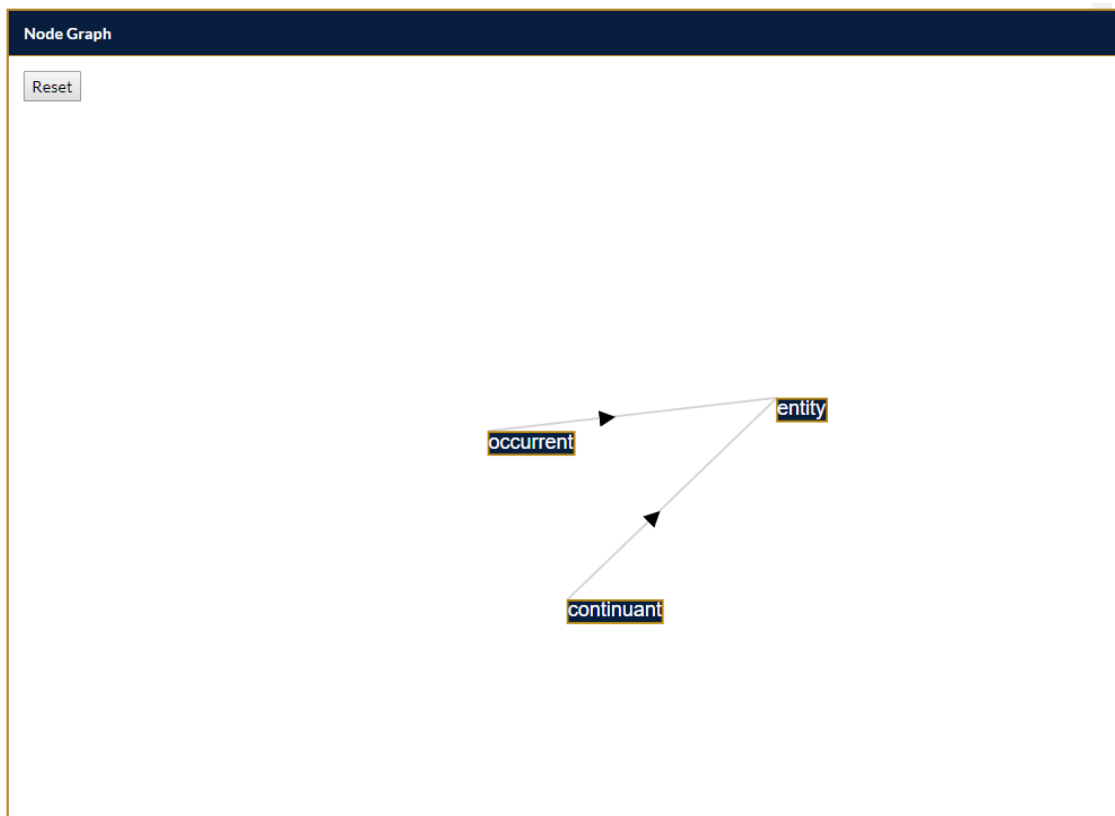
- Test case ID: NVOS-48-T01
- Description/Summary of Test:
 - User has browsed to the node graph view page.
 - User clicked on a concept
 - node graph dynamically updated related concepts when clicking a node.
- Pre-condition: User is on another page and selects node graph from the navigation bar and 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

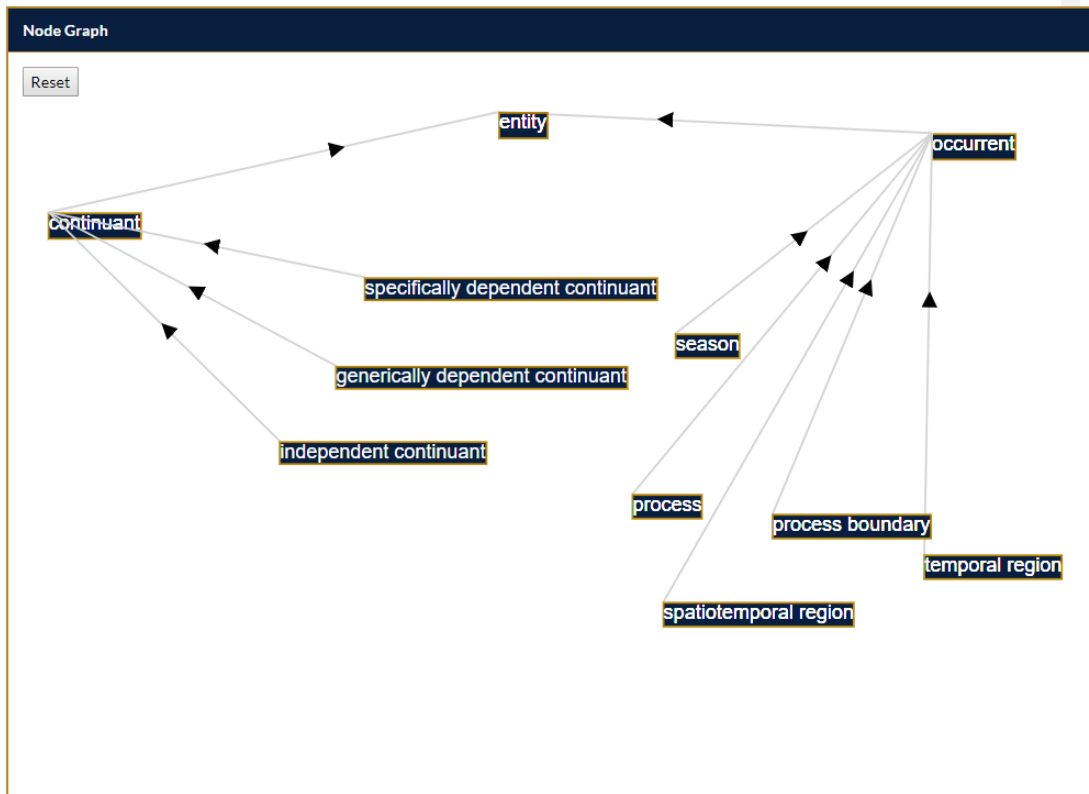
Integration Test

- 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.

Visual User Guide

Initial graph displayed.





Tooltip displaying when positioning mouse over a node with more information about the concept.

Ontology

44 quick tips to fine-tune... x

How to optimize Angular... x

The Environment School... x

NVOS-97: Feedback H... x

NVOS-48: Graph Node... x

NVOS-70: Unifying Vis... x

NVOS-72: Node Graph... x

2018 Fall NVOS Team... x

localhost:4200/src/ontology-treeview.html

terms: BFO:0000001, entity

Node Graph

Reset

BFO:0000020

Name: specifically dependent continuant

Definition: A continuant that inheres in or is borne by other entities. Every instance of A requires some specific instance of B which must always be the same.

FIU

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